



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
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 3. Second notice (NAPD-Notice of Preliminary Decision)
 - English
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 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
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3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
 - Inglés
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4. Materiales de la solicitud
5. Proyecto de permiso
6. Resumen técnico u hoja de datos



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

The City of Bastrop (CN600339568) operates the East Bastrop Wastewater Treatment Facility (RN101510832), an activated sludge facility. The facility is located at 300 Water Street, in Bastrop, Bastrop County, Texas 78602.

This application is for a renewal to discharge treated domestic wastewater at an annual average flow of 1.4 million gallons per day.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia coli. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by the following treatment units: manual and mechanical bar screen, digester, aeration basin, clarifiers, and a chlorine contact basin.

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

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

La ciudad de Bastrop (CN600339568) opera la Instalación de tratamiento de aguas residuales del este (RN101510832), una instalación de lodos activados. La instalación está ubicada en 300 Water Street, en Bastrop, condado de Bastrop, Texas 78602.

Esta solicitud es para una renovación para descargar aguas residuales domésticas tratadas a un flujo promedio anual de 1.4 millones de galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco días, sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7. Análisis de Contaminantes del Efluente Tratado y Hoja de Trabajo Doméstico 4.0 en el paquete de solicitud de permiso. Las aguas residuales domésticas son tratadas mediante las siguientes unidades de tratamiento: criba de barras manual y mecánica, digestor, tina de aireación, clarificadores y tina de contacto de cloro.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0011076001

APPLICATION. City of Bastrop, 1311 Chestnut Street, Bastrop, Texas 78602, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011076001 (EPA I.D. No. TX0032671) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,400,000 gallons per day. The domestic wastewater treatment facility is located at 300 Water Street, in the city of Bastrop, in Bastrop County, Texas 78602. The discharge route is from the plant site directly to the Colorado River Above La Grange. TCEQ received this application on September 3, 2024. The permit application will be available for viewing and copying at Bastrop City Hall, City Office, 1311 Chestnut Street, Bastrop, 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=-97.318888,30.102777&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 Bastrop at the address stated above or by calling Mr. Curtis Hancock, Director – Water and Wastewater Department, at 512-332-8960.

Issuance Date: October 24, 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. WQ0011076001

SOLICITUD. La ciudad de Bastrop, 1311 Chestnut Street, Bastrop, Texas 78602, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0011076001 (EPA I.D. No. TX 0032671) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no exceda un flujo promedio anual de 1,400,000 galones por día. La planta está ubicada 300 Water Street, Bastrop, en el Condado de Bastrop, Texas. La ruta de descarga es del sitio de la planta a Colorado River Above La Grange. La TCEQ recibió esta solicitud el 3 de septiembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en 1311 Chestnut Street, Bastrop, 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=-97.318888,30.102777&level=18>

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos

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

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y por qué 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 de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

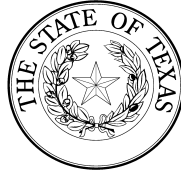
CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y

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

También se puede obtener información adicional del la Ciudad de Bastrop a la dirección indicada arriba o llamando a Sr. Curtis Hancock al 512-332-8960.

Fecha de emission: 24 de octubre de 2024

Texas Commission on Environmental Quality



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

RENEWAL

PERMIT NO. WQ0011076001

APPLICATION AND PRELIMINARY DECISION. City of Bastrop, 1311 Chestnut Street, Bastrop, Texas 78602, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011076001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 1,400,000 gallons per day. TCEQ received this application on September 3, 2024.

The facility is located at 300 Water Street, in the City of Bastrop, Bastrop County, Texas 78602. The treated effluent is discharged directly to Colorado River Above La Grange in Segment No. 1434 of the Colorado River Basin. The designated uses for Segment No. 1434 are primary contact recreation, public water supply, and exceptional 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=-97.318888,30.102777&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 Bastrop City Hall, City Office, 1311 Chestnut Street, Bastrop, Texas. The application, is available for viewing and copying 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 Bastrop at the address stated above or by calling Mr. Curtis Hancock, Director – Water and Wastewater Dept, City Of Bastrop, at 512-332-8960.

Issuance Date: November 25, 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. WQ 0011076001

SOLICITUD Y DECISIÓN PRELIMINAR. City of Bastrop, 1311 Chestnut Street, Bastrop, Texas 78602, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011076001, que autoriza la descarga de aguas residuales domésticas tratadas con un caudal medio anual que no exceda de 1.400.000 galones por día. La TCEQ recibió esta solicitud el 3 de septiembre de 2024.

La planta está ubicada en 300 Water Street, in the City of Bastrop en el Condado de Bastrop, Texas. El efluente tratado es descargado al Colorado River Above La Grange en el Segmento No. 1434 de la Cuenca del Río Colorado River Basin. Los usos no clasificados de las aguas receptoras son excepcionales usos de la vida acuática para Colorado River. Los usos designados para el Segmento No. 1434 o uso excepcional de vida acuática; abastecimiento de agua potable, navegación y recreación sin contacto. 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=-97.318888,30.102777&level=18>.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Bastrop City Hall, City Office, 1311 Chestnut Street, Bastrop, Texas. La solicitud está disponible para su consulta y reproducción a través del siguiente enlace: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud.

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.

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

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

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

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 <https://www.tceq.texas.gov/goto/comment>. 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.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para obtener detalles sobre el estado de la solicitud, visite la Base de Datos Integrada de los Comisionados en <https://www.tceq.texas.gov/goto/cid/>. Busque en la base de datos utilizando el número de permiso para esta solicitud, que se proporciona en la parte superior de este aviso.

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

También se puede obtener información adicional del City of Bastrop a la dirección indicada arriba o llamando a Curtis Hancock, al 512-332-8920.

Fecha de emisión: 25 de noviembre de 2025



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Bastrop

PERMIT NUMBER (If new, leave blank): WQ00 11076001

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

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

For TCEQ Use Only

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION
ADMINISTRATIVE REPORT 1.0**

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

Section 1. Application Fees (Instructions Page 26)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input checked="" type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number: 154006
Check/Money Order Amount: \$2,015.00
Name Printed on Check: City of Bastrop

EPAY Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

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

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

- ☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 11076001

EPA I.D. (TPDES only): TX 0032671

Expiration Date: March 3, 2025

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

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

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

City of Bastrop

(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: 600339568

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: Hancock, Curtis

Title: Director – Water and Wastewater Dept

Credential: N/A

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?

N/A

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

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

CN: N/A

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: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Provide a brief description of the need for a co-permittee: N/A

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. **AR-1**

Section 4. Application Contact Information (Instructions Page 27)

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

- A. Prefix: Mr. Last Name, First Name: Hancock, Curtis
Title: Director – Water and Wastewater Dept Credential: N/A
Organization Name: City of Bastrop
Mailing Address: 1311 Chestnut St. City, State, Zip Code: Bastrop, Texas 78602
Phone No.: 512-332-8960 E-mail Address: chancock@cityofbastrop.org
Check one or both: ☒ Administrative Contact ☒ Technical Contact
- B. Prefix: Mr. Last Name, First Name: Wilson, James
Title: Water/Wastewater Superintendent Credential: N/A
Organization Name: City of Bastrop
Mailing Address: 1311 Chestnut St. City, State, Zip Code: Bastrop, Texas 78602
Phone No.: 512-332-8960 E-mail Address: jwilson@cityofbastrop.org
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: Hancock, Curtis
Title: Director – Water and Wastewater Dept Credential: N/A
Organization Name: City of Bastrop
Mailing Address: 1311 Chestnut St. City, State, Zip Code: Bastrop, Texas 78602
Phone No.: 512-332-8960 E-mail Address: chancock@cityofbastrop.org

B. Prefix: Mr. Last Name, First Name: Wilson, James
Title: Water/Wastewater Superintendent Credential: N/A
Organization Name: City of Bastrop
Mailing Address: 1311 Chestnut St. City, State, Zip Code: Bastrop, Texas 78602
Phone No.: 512-332-8960 E-mail Address: jwilson@cityofbastrop.org

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: Hancock, Curtis
Title: Director – Water and Wastewater Dept Credential: N/A
Organization Name: City of Bastrop
Mailing Address: 1311 Chestnut St. City, State, Zip Code: Bastrop, Texas 78602
Phone No.: 512-332-8960 E-mail Address: chancock@cityofbastrop.org

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: Hancock, Curtis
Title: Director – Water and Wastewater Dept Credential: N/A
Organization Name: City of Bastrop
Mailing Address: 1311 Chestnut St. City, State, Zip Code: Bastrop, Texas 78602
Phone No.: 512-332-8960 E-mail Address: chancock@cityofbastrop.org

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Hancock, Curtis
Title: Director – Water and Wastewater Dept Credential: N/A
Organization Name: City of Bastrop
Mailing Address: 1311 Chestnut St. City, State, Zip Code: Bastrop, Texas 78602
Phone No.: 512-332-8960 E-mail Address: chancock@cityofbastrop.org

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Hancock, Curtis

Title: Director – Water and Wastewater Dept Credential: N/A

Organization Name: City of Bastrop

Mailing Address: 1311 Chestnut St. City, State, Zip Code: Bastrop, Texas 78602

Phone No.: 512-332-8960 E-mail Address: chancock@cityofbastrop.org

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: Bastrop City Hall

Location within the building: City Office

Physical Address of Building: 1311 Chestnut St., Bastrop, Texas 78602

City: Bastrop County: Bastrop

Contact (Last Name, First Name): Erma Parker

Phone No.: 512-332-8800 Ext.: 8811

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: AR-2

G. Public Involvement Plan Form

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

Attachment: 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 101510832

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):

East Bastrop Wastewater Treatment Facility

C. Owner of treatment facility: City of Bastrop

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

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

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Organization Name: City of Bastrop

Mailing Address: 1311 Chestnut St.

City, State, Zip Code: Bastrop, TX 78602

Phone No.: 512-332-8960

E-mail Address: chancock@cityofbastrop.org

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: N/A

Title: N/A

Credential: N/A

Organization Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

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: N/A

Title: N/A

Credential: N/A

Organization Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

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:

N/A

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:

N/A

City nearest the outfall(s): Bastrop

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

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: N/A

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: N/A

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

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

N/A

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

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.

N/A

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: N/A

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: AR-1 (Core Data Form), AR-2 (Plain Language Summary), AR-3 (USGS Topo)

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0011076001

Applicant: City of Bastrop

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): Curtis Hancock

Signatory title: Director – Water and Wastewater Department

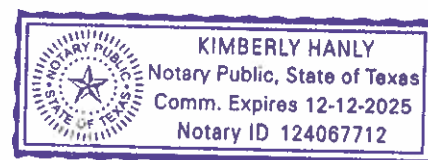
Signature:  Date: 8/7/2024
(Use blue ink)

Subscribed and Sworn to before me by the said Curtis Hancock
on this 7th day of August, 20 24.
My commission expires on the 12th day of December, 20 25.


Notary Public

[SEAL]

Bastrop
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-1 (SPIF Form) & SPIF-2 (SPIF Topo)

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): 1.4

2-Hr Peak Flow (MGD): 3.92

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 1.4 MGD – 09/01/2004

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.**

TR-1

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)
TR-1		

C. Process Flow Diagram

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

Attachment: TR-2

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

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

- Latitude: 30.102601
- Longitude: -97.319315

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: TR-3

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

City of Bastrop, Bastrop County Water Control and Improvement District No. 2

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
Bastrop County WCID No. 2	Bastrop County WCID No. 2	Privately Owned	Approx. 4,775
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 5. Closure Plans (Instructions Page 45)

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

The East Bastrop Wastewater Treatment Facility will be scheduled for decommissioning when both the Transfer Lift Station and Force Main have been constructed and placed into service, and when adequate treatment capacity is available at the West Bastrop WWTF.

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: 12/17/2002

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

N/A

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.

N/A

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.

N/A

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.

N/A

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:

N/A

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.

N/A

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.

N/A

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.

N/A

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.
N/A

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If **yes to any of the above**, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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.

N/A

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	2.6	2.6	1	Composite	7/23/24 @1300
Total Suspended Solids, mg/l	7.43	7.43	1	Composite	7/23/24 @1300
Ammonia Nitrogen, mg/l	<0.02	<0.02	1	Composite	7/23/24 @1300
Nitrate Nitrogen, mg/l	23.1	23.1	1	Composite	7/23/24 @1300
Total Kjeldahl Nitrogen, mg/l	<0.05	<0.05	1	Composite	7/23/24 @1300
Sulfate, mg/l	98.7	98.7	1	Composite	7/23/24 @1300
Chloride, mg/l	146	146	1	Composite	7/23/24 @1300
Total Phosphorus, mg/l	8.99	8.99	1	Composite	7/23/24 @1300
pH, standard units	7.0	7.0	1	Grab	7/23/24 @1300
Dissolved Oxygen*, mg/l	7.6	7.6	1	Grab	7/23/24 @1300
Chlorine Residual, mg/l	0.59	0.59	1	Grab	7/23/24 @1300
<i>E.coli</i> (CFU/100ml) freshwater	4.09	4.09	1	Grab	7/23/24 @1300
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	760	760	1	Grab	7/23/24 @1300
Electrical Conductivity, μ mohs/cm, †	1180	1180	1	Grab	
Oil & Grease, mg/l	<4.72	<4.72	1	Grab	7/23/24 @1300
Alkalinity (CaCO ₃)*, mg/l	177	177	1	Grab	7/23/24 @1300

*TPDES permits only

†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: James B. WilsonFacility Operator's License Classification and Level: Wastewater Treatment Operator BFacility Operator's License Number: WW0055510

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☒ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☒ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (≥ 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: [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
Disposal in Landfill	On-Site Owner or Operator	Not Applicable	188	Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): N/A

D. Disposal site

Disposal site name: Williamson County Recycling and Disposal Facility Landfill

TCEQ permit or registration number: MSW-1405B

County where disposal site is located: Williamson County

E. Transportation method

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

Name of the hauler: Waste Connections Lone Star, Inc.

Hauler registration number: 400409

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

Sludge Composting	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Marketing and Distribution of sludge	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Sludge Surface Disposal or Sludge Monofill	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Temporary storage in sludge lagoons	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

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

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

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

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

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

N/A

B. Temporary storage information

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Provide the following information:

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

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

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

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1×10^{-7} cm/sec?

☐ Yes ☐ No

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

N/A

D. Site development plan

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

N/A

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)
Attachment: [Click to enter text.](#)
- Copy of the closure plan
Attachment: [Click to enter text.](#)
- Copy of deed recordation for the site
Attachment: [Click to enter text.](#)
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment: [Click to enter text.](#)
- Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment: [Click to enter text.](#)
- Procedures to prevent the occurrence of nuisance conditions
Attachment: [Click to enter text.](#)

E. Groundwater monitoring

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

☐ Yes ☐ No

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

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

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

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

☐ Yes ☒ No

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

N/A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Curtis Hancock

Title: Director – Water and Wastewater Department

Signature: 

Date: 8/7/2024

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

Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

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

Attachment: N/A

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: N/A

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).

N/A

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).

N/A

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: N/A

A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☐ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: N/A

Average depth of the entire water body, in feet: N/A

Average depth of water body within a 500-foot radius of discharge point, in feet: N/A

- ☐ Man-made Channel or Ditch
- ☐ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify: N/A

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: N/A

C. Downstream perennial confluences

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

N/A

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.

N/A

E. Normal dry weather characteristics

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

N/A

Date and time of observation: N/A

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.

- | | |
|---|--|
| <input type="checkbox"/> Oil field activities | <input type="checkbox"/> Urban runoff |
| <input type="checkbox"/> Upstream discharges | <input type="checkbox"/> Agricultural runoff |
| <input type="checkbox"/> Septic tanks | <input type="checkbox"/> Other(s), specify: <u>N/A</u> |

B. Waterbody uses

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

- | | |
|--|--|
| <input type="checkbox"/> Livestock watering | <input type="checkbox"/> Contact recreation |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Navigation |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply |
| <input type="checkbox"/> Park activities | <input type="checkbox"/> Other(s), specify: <u>N/A</u> |

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: 7/23/24 @ 1300

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	<50	1	50
Aldrin	<0.01	<0.01	1	0.01
Aluminum	42.2	42.2	1	2.5
Anthracene	<10	<10	1	10
Antimony	<5	<5	1	5
Arsenic	2.13	2.13	1	0.5
Barium	83.6	83.6	1	3
Benzene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)anthracene	<5	<5	1	5
Benzo(a)pyrene	<5	<5	1	5
Bis(2-chloroethyl)ether	<10	<10	1	10
Bis(2-ethylhexyl)phthalate	<10	<10	1	10
Bromodichloromethane	16.5	16.5	1	10
Bromoform	<10	<10	1	10
Cadmium	<1	<1	1	1
Carbon Tetrachloride	<2	<2	1	2
Carbaryl	<5	<5	1	5
Chlordane*	<0.2	<0.2	1	0.2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	29	29	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Chromium (Hex)	<3	<3	1	3
Copper	14.8	14.8	1	2
Chrysene	<5	<5	1	5
p-Chloro-m-Cresol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
p-Cresol	<10	<10	1	10
Cyanide (*2)	19.6	19.6	1	10
4,4'- DDD	<0.1	<0.1	1	0.1
4,4'- DDE	<0.1	<0.1	1	0.1
4,4'- DDT	<0.02	<0.02	1	0.02
2,4-D	<0.7	<0.7	1	0.7
Demeton (O and S)	<0.2	<0.2	1	0.20
Diazinon	<0.1	<0.1	1	0.5/0.1
1,2-Dibromoethane	<10	<10	1	10
m-Dichlorobenzene	<10	<10	1	10
o-Dichlorobenzene	<10	<10	1	10
p-Dichlorobenzene	<10	<10	1	10
3,3'-Dichlorobenzidine	<5	<5	1	5
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
Dichloromethane	<20	<20	1	20
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropene	<10	<10	1	10
Dicofol	<1	<1	1	1
Dieldrin	<0.02	<0.02	1	0.02
2,4-Dimethylphenol	<10	<10	1	10
Di-n-Butyl Phthalate	<10	<10	1	10
Diuron	<0.09	<0.09	1	0.09
Endosulfan I (alpha)	<0.01	<0.01	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Ethylbenzene	<10	<10	1	10
Fluoride	540	540	1	500
Guthion	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclohexane (alpha)	<0.05	<0.05	1	0.05
Hexachlorocyclohexane (beta)	<0.05	<0.05	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.05	<0.05	1	0.05
Hexachlorocyclopentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Hexachlorophene	<10	<10	1	10
Lead	<0.5	<0.5	1	0.5
Malathion	<0.1	<0.1	1	0.1
Mercury	0.0162	0.0162	1	0.005
Methoxychlor	<2	<2	1	2
Methyl Ethyl Ketone	<50	<50	1	50
Mirex	<0.02	<0.02	1	0.02
Nickel	2.46	2.46	1	2
Nitrate-Nitrogen	23100	23100	1	100
Nitrobenzene	<10	<10	1	10
N-Nitrosodiethylamine	<20	<20	1	20
N-Nitroso-di-n-Butylamine	<20	<20	1	20
Nonylphenol	<333	<333	1	333
Parathion (ethyl)	<0.1	<0.1	1	0.1
Pentachlorobenzene	<20	<20	1	20
Pentachlorophenol	<5	<5	1	5
Phenanthrene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) (*3)	<0.2	<0.2	1	0.2
Pyridine	<20	<20	1	20
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Thallium	<0.5	<0.5	1	0.5
Toluene	<10	<10	1	10
Toxaphene	<0.3	<0.3	1	0.3
2,4,5-TP (Silvex)	<0.3	<0.3	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
2,4,5-Trichlorophenol	<50	<50	1	50
TTHM (Total Trihalomethanes)	54.4	54.4	1	10
Vinyl Chloride	<10	<10	1	10
Zinc	141	141	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: 7/23/2024 @ 1300

Table 4.0(2)A – Metals, Cyanide, and Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<5	<5	1	5
Arsenic	2.13	2.13	1	0.5
Beryllium	<0.5	<0.5	1	0.5
Cadmium	<1	<1	1	1
Chromium (Total)	0.665	0.665	1	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Copper	14.8	14.8	1	2
Lead	<0.5	<0.5	1	0.5
Mercury	0.0162	0.0162	1	0.005
Nickel	2.46	2.46	1	2
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
Thallium	<0.5	<0.5	1	0.5
Zinc	141	141	1	5
Cyanide (*2)	19.6	19.6	1	10
Phenols, Total	<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	<50	1	50
Acrylonitrile	<50	<50	1	50
Benzene	<10	<10	1	10
Bromoform	<10	<10	1	10
Carbon Tetrachloride	<2	<2	1	2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	7.81	7.81	1	10
Chloroethane			1	50
2-Chloroethylvinyl Ether	<10	<10	1	10
Chloroform	29.0	29.0	1	10
Dichlorobromomethane [Bromodichloromethane]	16.5	16.5	1	10
1,1-Dichloroethane	<10	<10	1	10
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	<10	1	10
1,2-Trans-Dichloroethylene	<10	<10	1	10
Ethylbenzene	<10	<10	1	10
Methyl Bromide	<50	<50	1	50
Methyl Chloride	<50	<50	1	50
Methylene Chloride	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Toluene	<10	<10	1	10
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
Vinyl Chloride	<10	<10	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	<10	<10	1	10
2,4-Dichlorophenol	<10	<10	1	10
2,4-Dimethylphenol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
2,4-Dinitrophenol	<50	<50	1	50
2-Nitrophenol	<20	<20	1	20
4-Nitrophenol	<50	<50	1	50
P-Chloro-m-Cresol	<10	<10	1	10
Pentalchlorophenol	<5	<5	1	5
Phenol	<10	<10	1	10
2,4,6-Trichlorophenol	<10	<10	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	<10	<10	1	10
Acenaphthylene	<10	<10	1	10
Anthracene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)Anthracene	<5	<5	1	5
Benzo(a)Pyrene	<5	<5	1	5
3,4-Benzofluoranthene	<10	<10	1	10
Benzo(ghi)Perylene	<20	<20	1	20
Benzo(k)Fluoranthene	<5	<5	1	5
Bis(2-Chloroethoxy)Methane	<10	<10	1	10
Bis(2-Chloroethyl)Ether	<10	<10	1	10
Bis(2-Chloroisopropyl)Ether	<10	<10	1	10
Bis(2-Ethylhexyl)Phthalate	<10	<10	1	10
4-Bromophenyl Phenyl Ether	<10	<10	1	10
Butyl benzyl Phthalate	<10	<10	1	10
2-Chloronaphthalene	<10	<10	1	10
4-Chlorophenyl phenyl ether	<10	<10	1	10
Chrysene	<5	<5	1	5
Dibenzo(a,h)Anthracene	<5	<5	1	5
1,2-(o)Dichlorobenzene	<10	<10	1	10
1,3-(m)Dichlorobenzene	<10	<10	1	10
1,4-(p)Dichlorobenzene	<10	<10	1	10
3,3-Dichlorobenzidine	<5	<5	1	5
Diethyl Phthalate	<10	<10	1	10
Dimethyl Phthalate	<10	<10	1	10
Di-n-Butyl Phthalate	<10	<10	1	10
2,4-Dinitrotoluene	<10	<10	1	10
2,6-Dinitrotoluene	<10	<10	1	10
Di-n-Octyl Phthalate	<10	<10	1	10
1,2-Diphenylhydrazine (as Azo- benzene)	<20	<20	1	20
Fluoranthene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<10	<10	1	10
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclo-pentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Indeno(1,2,3-cd)pyrene	<5	<5	1	5
Isophorone	<10	<10	1	10
Naphthalene	<10	<10	1	10
Nitrobenzene	<10	<10	1	10
N-Nitrosodimethylamine	<50	<50	1	50
N-Nitrosodi-n-Propylamine	<20	<20	1	20
N-Nitrosodiphenylamine	<20	<20	1	20
Phenanthrene	<10	<10	1	10
Pyrene	<10	<10	1	10
1,2,4-Trichlorobenzene	<10	<10	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	<0.01	<0.01	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
Chlordane	<0.2	<0.2	1	0.2
4,4-DDT	<0.02	<0.02	1	0.02
4,4-DDE	<0.1	<0.1	1	0.1
4,4,-DDD	<0.1	<0.1	1	0.1
Dieldrin	<0.02	<0.02	1	0.02
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Endrin Aldehyde	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
PCB-1242	<0.2	<0.2	1	0.2
PCB-1254	<0.2	<0.2	1	0.2
PCB-1221	<0.2	<0.2	1	0.2
PCB-1232	<0.2	<0.2	1	0.2
PCB-1248	<0.2	<0.2	1	0.2
PCB-1260	<0.2	<0.2	1	0.2
PCB-1016	<0.2	<0.2	1	0.2
Toxaphene	<0.3	<0.3	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.

N/A

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 Equivalenc y 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		N/A			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: N/A

48-hour Acute: 17

24-hour Acute: 12

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.

A TRE Plan was submitted to TCEQ on December 27, 2023. WET testing, as specified in the Plan, began in the first quarter of 2024. The 2024 Quarterly Progress reports are included in attachment TR-5.

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
	Submitted via DMRs		

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs - non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 0 (zero)

Average Daily Flows, in MGD: 0 (zero)

Significant IUs - non-categorical:

Number of IUs: 0 (zero)

Average Daily Flows, in MGD: 0 (zero)

Other IUs:

Number of IUs: 0 (zero)

Average Daily Flows, in MGD: 0 (zero)

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.

N/A

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.

N/A

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.

N/A

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.

N/A

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

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.

N/A

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: N/A

SIC Code: N/A

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

Telephone number: N/A

Email address: N/A

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).

N/A

C. Product and service information

Provide a description of the principal product(s) or services performed.

N/A

D. Flow rate information

See the Instructions for definitions of “process” and “non-process wastewater.”

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

☐ 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: N/A

[Click or tap here to enter text.](#) N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

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.

N/A

ATTACHMENT AR-1

Core Data Form



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600339568		RN 101510832

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		06/20/2024	
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of Bastrop					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input checked="" type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:	City of Bastrop				
	1311 Chestnut St.				
	City	Bastrop	State	TX	ZIP 78602 ZIP + 4 0427
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
N/A				N/A	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)							
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information							
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>							
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)							
East Bastrop Wastewater Treatment Facility							
23. Street Address of the Regulated Entity: (No PO Boxes)	City of Bastrop						
	300 Water Street						
	City	Bastrop	State	TX	ZIP	78602	ZIP + 4
24. County	Bastrop						

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

25. Description to Physical Location:	N/A						
26. Nearest City					State	Nearest ZIP Code	
Bastrop					TX	78602	
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>							
27. Latitude (N) In Decimal:		30.10278			28. Longitude (W) In Decimal:		97.31889
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
30	6	10	97	19	08		
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)		
4952			22132				
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)							
Domestic wastewater treatment							
34. Mailing Address:	City of Bastrop						
	1311 Chestnut St.						
	City	Bastrop	State	TX	ZIP	78602	ZIP + 4
35. E-Mail Address:	chancock@cityofbastrop.org						
36. Telephone Number	37. Extension or Code			38. Fax Number (if applicable)			
(512) 332-8906				(512) 332-8969			

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

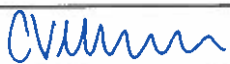
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:
	WQ0011076001			

SECTION IV: Preparer Information

40. Name:	Cassandra Villarreal	41. Title:	Environmental Scientist
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(817) 735-7294		(817) 735-7492	cassandra.villarreal@freese.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:	Freese and Nichols, Inc	Job Title:	Environmental Scientist
Name (In Print):	Cassandra Villarreal	Phone:	(817) 735- 7294
Signature:		Date:	8/26/2024

ATTACHMENT AR-2

Plain Language Summary



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

The City of Bastrop (CN600339568) operates the East Wastewater Treatment Facility (RN101510832), an activated sludge facility. The facility is located at 300 Water Street, in Bastrop, Bastrop County, Texas 78602.

This application is for a renewal to discharge treated domestic wastewater at an annual average flow of 1.4 million gallons per day.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by the following treatment units: manual and mechanical bar screen, digester, aeration basin, clarifiers, and a chlorine contact basin.

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

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

La ciudad de Bastrop (CN600339568) opera la Instalación de tratamiento de aguas residuales del este (RN101510832), una instalación de lodos activados. La instalación está ubicada en 300 Water Street, en Bastrop, condado de Bastrop, Texas 78602.

Esta solicitud es para una renovación para descargar aguas residuales domésticas tratadas a un flujo promedio anual de 1.4 millones de galones por día.

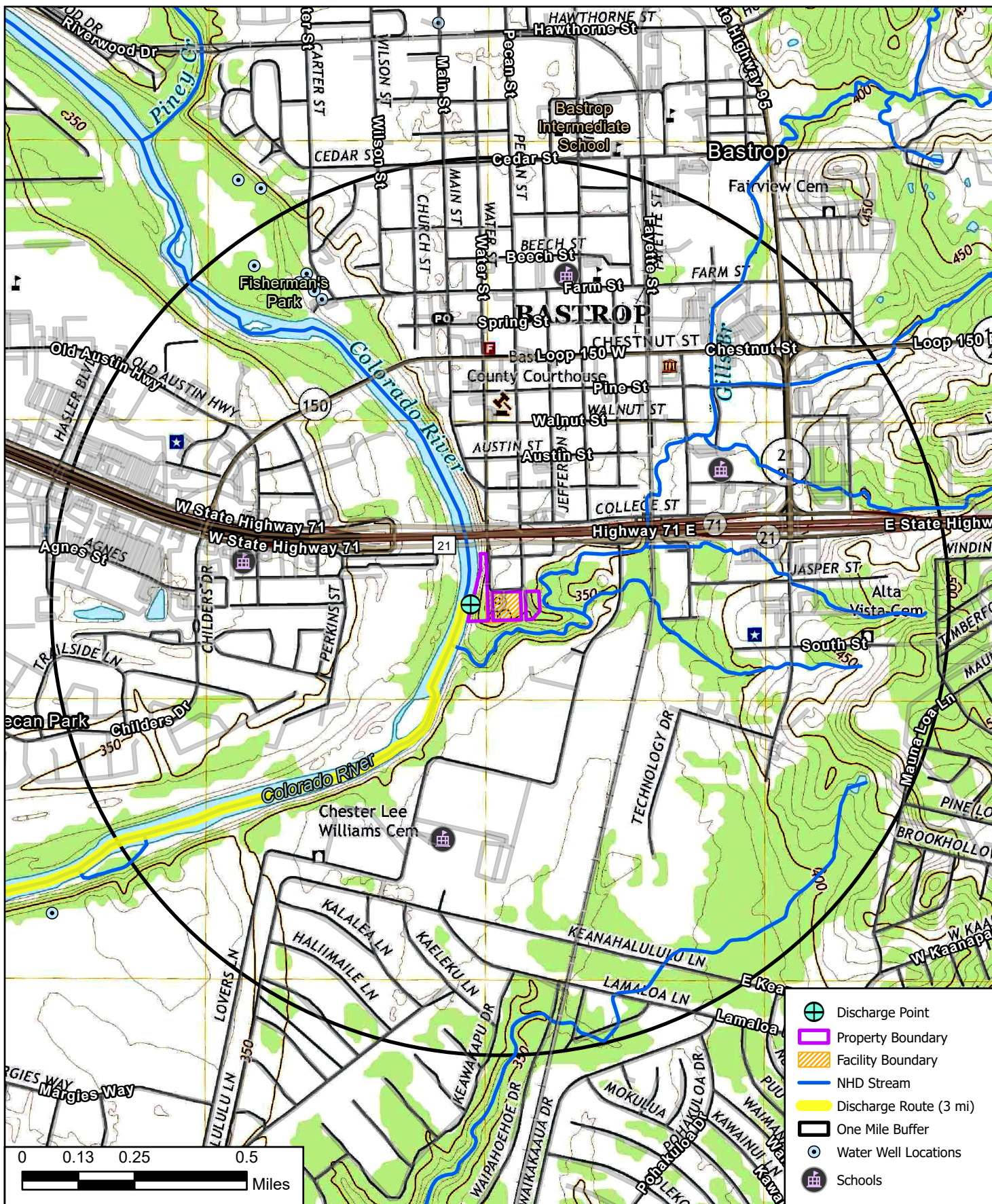
Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD₅) de cinco días, sólidos suspendidos totales (SST), nitrógeno amoniacal (NH₃-N) y *Escherichia coli*. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7. Análisis de Contaminantes del Efluente Tratado y Hoja de Trabajo Doméstico 4.0 en el paquete de solicitud de permiso. Las aguas residuales domésticas son tratadas mediante las siguientes unidades de tratamiento: criba de barras manual y mecánica, digestor, tina de aireación, clarificadores y tina de contacto de cloro.

INSTRUCTIONS

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

Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

ATTACHMENT AR-3
USGS Topographic Map



FREES AND NICHOLS
 FREES AND NICHOLS, INC
 801 Cherry Street, Suite 2800
 Fort Worth, TX 76102
 Phone - (817) 735 - 7300



CITY OF BASTROP
East WWTP TPDES Renewal
 USGS Topographic Map
 Quad Name: Bastrop

FN JOB NO BAS24339
 FILE NAME Bastrop East TPDES Renewal.aprx
 DATE 6/19/2024
 SCALE 1:18,403
 DESIGNED CLV
 DRAFTED 08245

1b

FIGURE



FREES AND NICHOLS
 FREES AND NICHOLS, INC
 801 Cherry Street, Suite 2800
 Fort Worth, TX 76102
 Phone - (817) 735 - 7300



CITY OF BASTROP
East WWTP TPDES Renewal
 USGS Topographic Map
 Quad Name: Bastrop

FN JOB NO	BAS24339
FILE NAME	Bastrop East TPDES Renewal.aprx
DATE	6/19/2024
SCALE	1:28,754
DESIGNED	CLV
DRAFTED	08245

1a
FIGURE

ATTACHMENT SPIF-1

SPIF Form

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 Bastrop

Permit No. WQ00 11076001

EPA ID No. TX 0032671

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

300 Water Street, Bastrop, TX 78602, Bastrop 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: Curtis Hancock

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

Title: Director - Water and Wastewater Department

Mailing Address: 1311 Chestnut Street

City, State, Zip Code: Bastrop, TX 78602

Phone No.: 512-332-8960 Ext.: N/A Fax No.: 512-332-8969

E-mail Address: chancock@cityofbastrop.org

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

N/A

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

From the plant site to the Colorado River above La Grange in Segment 1434 of the Colorado 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).

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

Existing WWTP consisting of wastewater treatment units

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

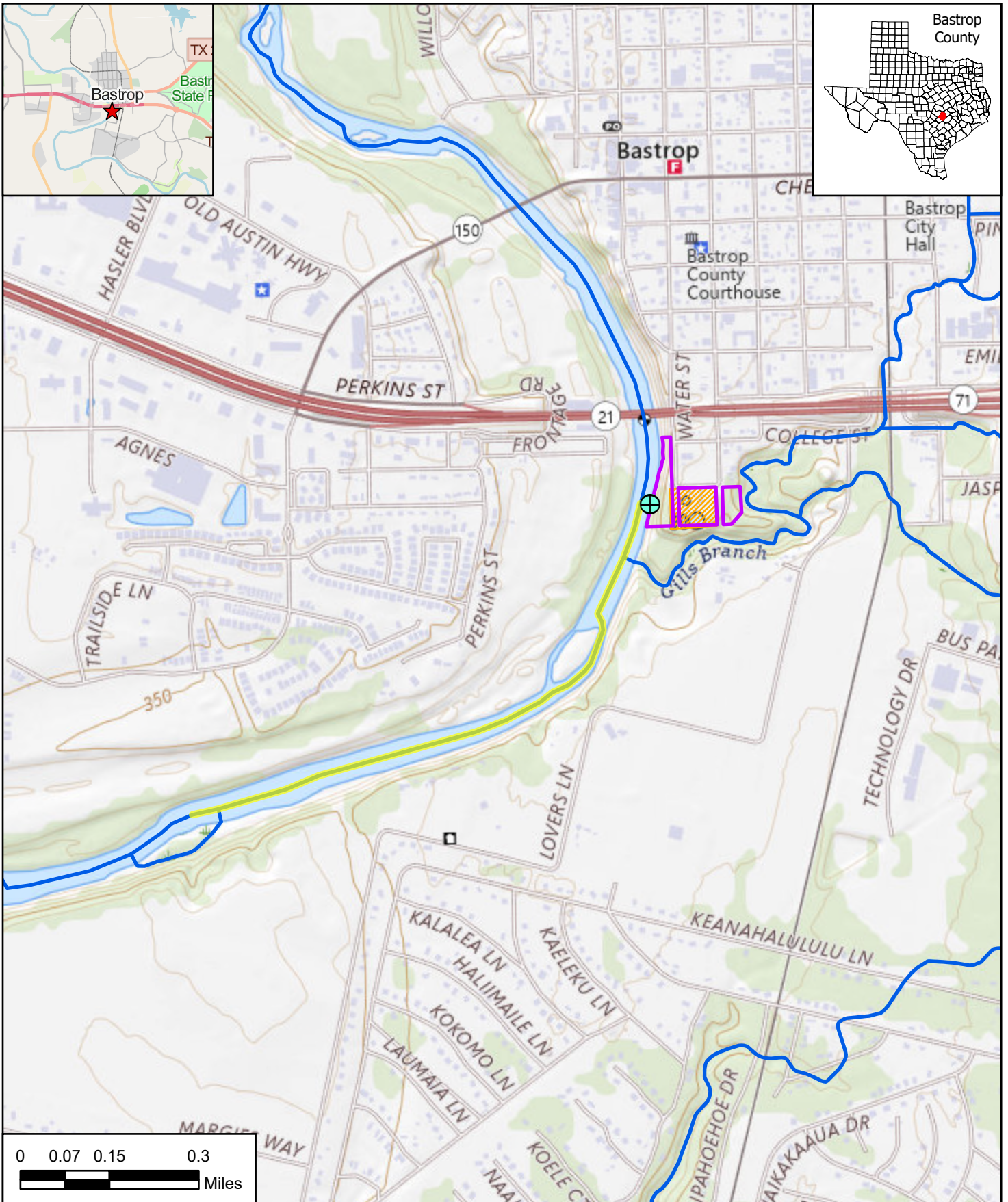
3. List construction dates of all buildings and structures on the property:

N/A

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

N/A

ATTACHMENT SPIF-2
SPIF Topographic Map



<p>FREASE AND NICHOLS, INC. 801 Cherry Street, Suite 2800 Fort Worth, TX 76102 Phone - (817) 735 - 7300</p>		<p>CITY OF BASTROP</p> <h2 style="margin: 0;">East WWTP TPDES Renewal</h2> <h2 style="margin: 0;">SPIF USGS Topographic Map</h2>		<p>FN JOB NO. BAS24339</p> <p>FILE NAME Bastrop East TPDES Renewal.aprx</p> <p>DATE 6/19/2024</p> <p>SCALE 1:372,170</p> <p>DESIGNED CLV</p> <p>DRAFTED 08245</p>	<h1 style="font-size: 48pt; margin: 0;">2</h1> <h2 style="margin: 0;">FIGURE</h2>

ATTACHMENT TR-1

Treatment Process/Treatment Units

ATTACHMENT TR-1

TREATMENT PROCESS DESCRIPTION

Section 2, Page 1, Item A Technical Report

Existing Phase (1.4 MGD, 3.92 MGD Peak Daily Flow)

The East Bastrop Wastewater Treatment Plant (WWTP) consists of a concrete activated sludge treatment train in parallel with a steel treatment train. Each train consists of a concentric circular structure with a clarifier in the inner basin and an aeration basin in the surrounding circular channel. The existing aeration basins are designed for single-sludge nitrification. The concrete structure is rated for an ADF of 0.36 mgd, and the steel structure is rated for 1.04 mgd, thus giving a total WWTP capacity of 1.4 mgd.

The secondary effluents from the structures are recombined, chlorinated, dechlorinated, and post-aerated in concrete structures. The effluent flow rate is measured in a 12-inch Parshall flume.

Waste-activated sludge is routed to a common aerobic digester made of concrete. Aerobically digested sludge is dewatered over sludge drying beds or through a belt filter press, and the dewatered sludge is hauled to a landfill. Both the hauler and the landfill have all requisite licenses and registrations.

TREATMENT UNITS

Section 2, Page 2, Item B Technical Report

The concrete treatment structure and basins are sized roughly as follows:

Overall Structure:	76' Outside Diameter (OD)	= 45,660 ft ³ aeration volume
Aeration Basin:	76' OD x 31' W x 15.5' SWD	= 1,590 ft ² surface area
Clarifier:	45' D x 12'3" SWD =	= 19,480 ft ³ volume

The steel treatment structure and basins are sized roughly as follows:

Overall Structure:	142' Outside Diameter (OD)	
Aeration Basin:	62' W x 14'1" SWD	= 45,660 ft ³ aeration volume
Clarifier:	80'Dx 13'SWD	= 5,027 ft ² surface area = 488,780 ft ³ volume

The common treatment modules are sized approximately as follows:

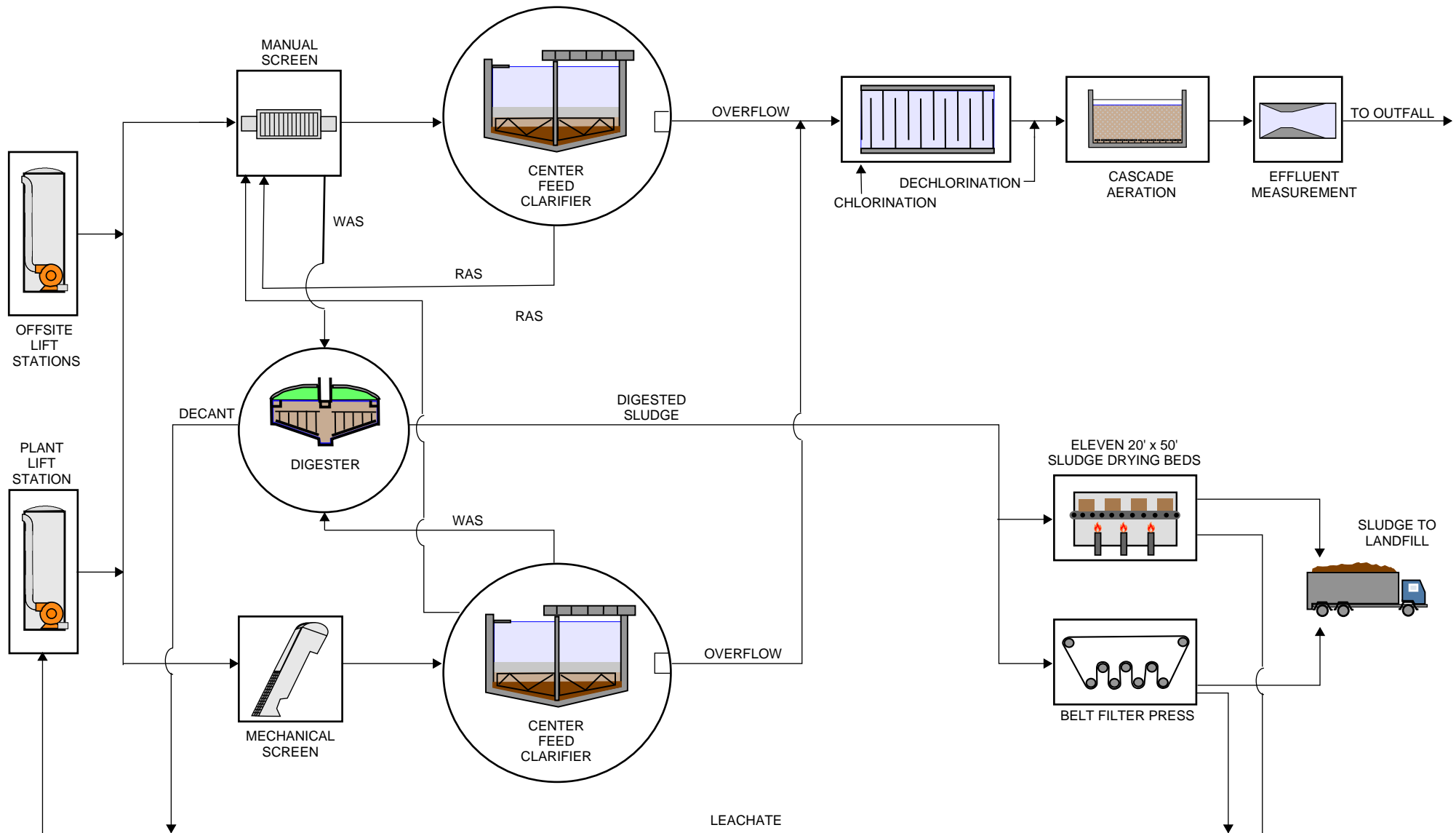
Chlorine Contact Basin:	Serpentine Channel	= 7,685 ft ³ volume
Digester:	35' D x 19' SWD	= 19,450 ft ³ volume
Eleven (11) Drying Beds:	20'W x 50' L	= 1,000 ft ² surface area each = 11,000 ft ² surface area total
Sludge Dewatering Box:		= 30 yd ³ volume

1.5M Belt Filter Press

ATTACHMENT TR-2

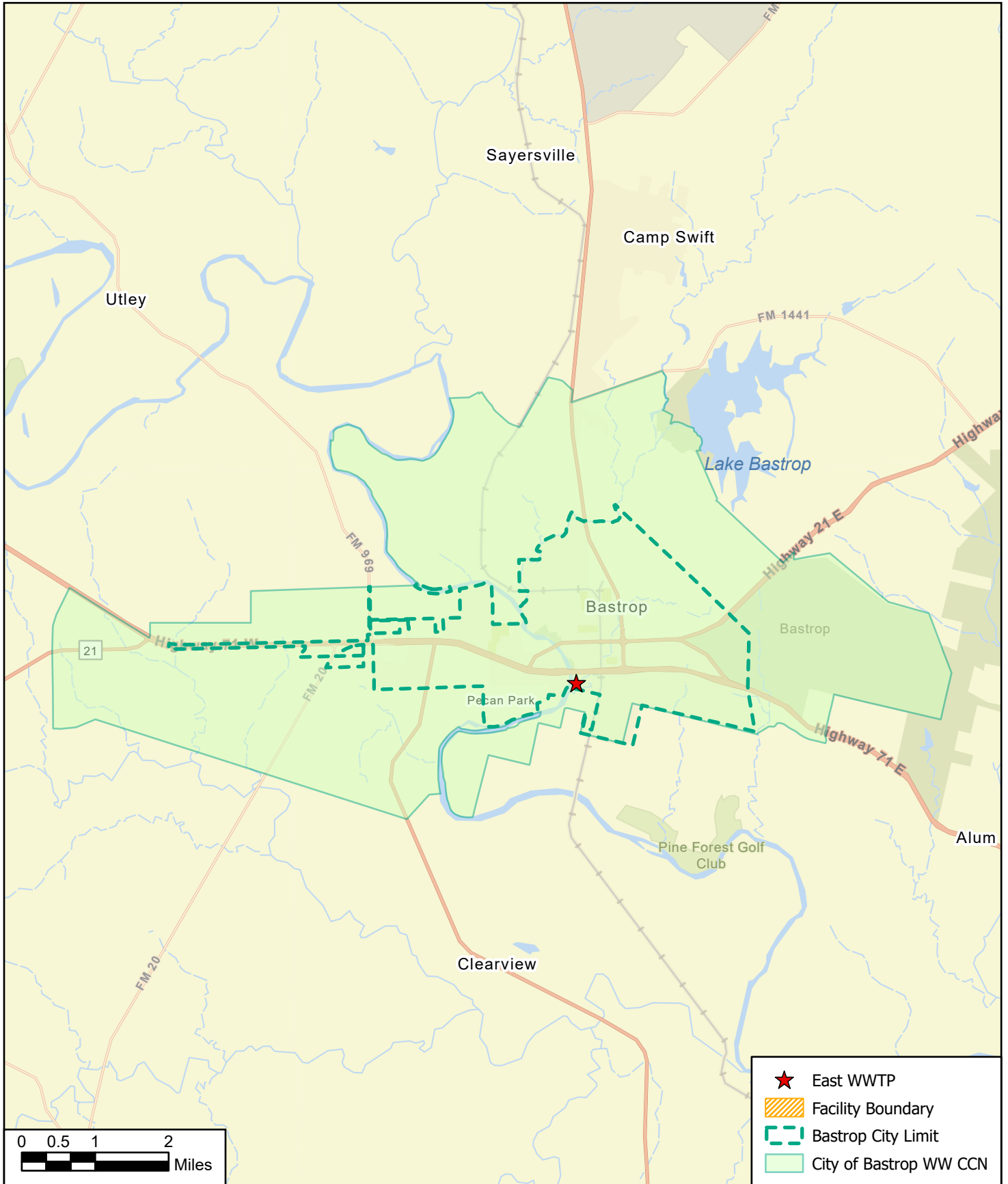
Process Flow Diagrams

TR-2 PROCESS FLOW DIAGRAM



ATTACHMENT TR-3

Site Drawing



★	East WWTP
	Facility Boundary
	Bastrop City Limit
	City of Bastrop WW CCN

<p>FREASE AND NICHOLS, INC. 801 Cherry Street, Suite 2800 Fort Worth, TX 76102 Phone - (817) 735 - 7300</p>		<p>CITY OF BASTROP</p> <p>East WWTP TPDES Renewal</p>		<p>FN JOB NO. BAS24339</p>	<p>3</p> <p>FIGURE</p>
		<p>Site Drawing</p>		<p>FILE NAME Bastrop East TPDES Renewal.aprx</p>	
				<p>DATE 6/19/2024</p>	
				<p>SCALE 1:372,170</p>	
			<p>DESIGNED CLV</p>		
			<p>DRAFTED 08245</p>		

ATTACHMENT TR-4

Lab Reports

Project
1111894

BAS1-C

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Printed 08/26/2024
14:45

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

<u>Report Name</u>	<u>Description</u>	<u>Pages</u>
1111894_r02_01_ProjectSamples	SPL Kilgore Project P:1111894 C:BAS1 Project Sample Cross Reference t:304	5
1111894_r03_03_ProjectResults	SPL Kilgore Project P:1111894 C:BAS1 Project Results t:304	15
1111894_r10_05_ProjectQC	SPL Kilgore Project P:1111894 C:BAS1 Project Quality Control Groups	32
1111894_r99_09_CoC__1_of_2	SPL Kilgore CoC BAS1 1111894_1_of_2	10
1111894_r99_09_CoC__2_of_2	SPL Kilgore CoC BAS1 1111894_2_of_2	3
Total Pages:		65



SAMPLE CROSS REFERENCE

Project

1111894

Printed

8/26/2024

Page 1 of 5
ww

City of Bastrop
 Curtis Hancock
 1311 Chestnut St.
 Bastrop, TX 78602-0427

Sample	Sample ID	Taken	Time	Received
2319341	WWTP TPDES PR C EAST	07/23/2024	13:00:00	07/24/2024

Bottle 01 Polyethylene 1/2 gal (White)
 Bottle 02 Polyethylene Quart
 Bottle 03 Amber 32 Oz
 Bottle 04 Amber 32 Oz
 Bottle 05 Amber 32 Oz
 Bottle 06 Amber 32 Oz
 Bottle 07 Amber 32 Oz
 Bottle 08 Amber 32 Oz
 Bottle 09 Amber 32 Oz
 Bottle 10 Amber 32 Oz
 Bottle 11 16 oz HNO3 Metals Plastic
 Bottle 12 NaOH to pH >12 Polyethylene 250 mL/amber
 Bottle 13 NaOH to pH >12 Polyethylene 250 mL/amber
 Bottle 14 Cr+6 Preserved 250 Polyethylene
 Bottle 15 Glass /clean metals w/HCl
 Bottle 16 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
 Bottle 17 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
 Bottle 18 8 oz Plastic H2SO4 pH < 2
 Bottle 19 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
 Bottle 20 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
 Bottle 21 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
 Bottle 22 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid
 Bottle 23 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid
 Bottle 24 BOD Titration Beaker A (Batch 1130051) Volume: 100.00000 mL <== Derived from 01 (100 ml)
 Bottle 25 BOD Analytical Beaker B (Batch 1130051) Volume: 100.00000 mL <== Derived from 01 (100 ml)
 Bottle 26 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1130075) Volume: 20.00000 mL <== Derived from 18 (20 ml)
 Bottle 27 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130125) Volume: 1.00000 mL <== Derived from 03 (962 ml)
 Bottle 28 Prepared Bottle: ICP Preparation for Metals (Batch 1130176) Volume: 50.00000 mL <== Derived from 11 (50 ml)
 Bottle 29 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1130180) Volume: 10.00000 mL <== Derived from 12 (5 ml)
 Bottle 30 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1130185) Volume: 10.00000 mL <== Derived from 12 (5 ml)
 Bottle 31 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1130208) Volume: 6.00000 mL <== Derived from 18 (6 ml)
 Bottle 32 Prepared Bottle: Mercury Preparation for Metals (Batch 1130224) Volume: 50.00000 mL <== Derived from 15 (47 ml)
 Bottle 33 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130472) Volume: 5.00000 mL <== Derived from 05 (896 ml)
 Bottle 34 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1130476) Volume: 1.00000 mL <== Derived from 04 (1010 ml)
 Bottle 35 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1130491) Volume: 1.00000 mL <== Derived from 04 (1010 ml)
 Bottle 36 Prepared Bottle: OPXL\OPXS 2 mL Autosampler Vial (Batch 1130498) Volume: 1.00000 mL <== Derived from 04 (1010 ml)
 Bottle 37 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1130501) Volume: 1.00000 mL <== Derived from 04 (1010 ml)
 Bottle 38 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130640) Volume: 10.00000 mL <== Derived from 07 (926 ml)
 Bottle 39 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130834) Volume: 1.00000 mL <== Derived from 09 (950 ml)
 Bottle 40 Prepared Bottle: 2 mL Autosampler Vial (Batch 1131510) Volume: 1.00000 mL <== Derived from 16 (848 ml)

Email: Kilgore.ProjectManagement@spllabs.com

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Project

1111894

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

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Sample	Sample ID	Taken	Time	Received
2319341	WWTP TPDES PR C EAST	07/23/2024	13:00:00	07/24/2024

- Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene Quart
Bottle 03 Amber 32 Oz
Bottle 04 Amber 32 Oz
Bottle 05 Amber 32 Oz
Bottle 06 Amber 32 Oz
Bottle 07 Amber 32 Oz
Bottle 08 Amber 32 Oz
Bottle 09 Amber 32 Oz
Bottle 10 Amber 32 Oz
Bottle 11 16 oz HNO3 Metals Plastic
Bottle 12 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 13 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 14 Cr+6 Preserved 250 Polyethylene
Bottle 15 Glass /clean metals w/HCl
Bottle 16 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 17 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 18 8 oz Plastic H2SO4 pH < 2
Bottle 19 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 20 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 21 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 22 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid
Bottle 23 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid
Bottle 24 BOD Titration Beaker A (Batch 1130051) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 25 BOD Analytical Beaker B (Batch 1130051) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 26 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1130075) Volume: 20.00000 mL <== Derived from 18 (20 ml)
Bottle 27 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130125) Volume: 1.00000 mL <== Derived from 03 (962 ml)
Bottle 28 Prepared Bottle: ICP Preparation for Metals (Batch 1130176) Volume: 50.00000 mL <== Derived from 11 (50 ml)
Bottle 29 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1130180) Volume: 10.00000 mL <== Derived from 12 (5 ml)
Bottle 30 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1130185) Volume: 10.00000 mL <== Derived from 12 (5 ml)
Bottle 31 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1130208) Volume: 6.00000 mL <== Derived from 18 (6 ml)
Bottle 32 Prepared Bottle: Mercury Preparation for Metals (Batch 1130224) Volume: 50.00000 mL <== Derived from 15 (47 ml)
Bottle 33 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130472) Volume: 5.00000 mL <== Derived from 05 (896 ml)
Bottle 34 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1130476) Volume: 1.00000 mL <== Derived from 04 (1010 ml)
Bottle 35 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1130491) Volume: 1.00000 mL <== Derived from 04 (1010 ml)
Bottle 36 Prepared Bottle: OPXL\OPXS 2 mL Autosampler Vial (Batch 1130498) Volume: 1.00000 mL <== Derived from 04 (1010 ml)
Bottle 37 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1130501) Volume: 1.00000 mL <== Derived from 04 (1010 ml)
Bottle 38 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130640) Volume: 10.00000 mL <== Derived from 07 (926 ml)
Bottle 39 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130834) Volume: 1.00000 mL <== Derived from 09 (950 ml)
Bottle 40 Prepared Bottle: 2 mL Autosampler Vial (Batch 1131510) Volume: 1.00000 mL <== Derived from 16 (848 ml)

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Sample	Sample ID	Taken	Time	Received
2319341	WWTP TPDES PR C EAST	07/23/2024	13:00:00	07/24/2024

Bottle 01 Polyethylene 1/2 gal (White)
 Bottle 02 Polyethylene Quart
 Bottle 03 Amber 32 Oz
 Bottle 04 Amber 32 Oz
 Bottle 05 Amber 32 Oz
 Bottle 06 Amber 32 Oz
 Bottle 07 Amber 32 Oz
 Bottle 08 Amber 32 Oz
 Bottle 09 Amber 32 Oz
 Bottle 10 Amber 32 Oz
 Bottle 11 16 oz HNO3 Metals Plastic
 Bottle 12 NaOH to pH >12 Polyethylene 250 mL/amber
 Bottle 13 NaOH to pH >12 Polyethylene 250 mL/amber
 Bottle 14 Cr+6 Preserved 250 Polyethylene
 Bottle 15 Glass /clean metals w/HCl
 Bottle 16 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
 Bottle 17 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
 Bottle 18 8 oz Plastic H2SO4 pH < 2
 Bottle 19 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
 Bottle 20 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
 Bottle 21 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
 Bottle 22 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid
 Bottle 23 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid
 Bottle 24 BOD Titration Beaker A (Batch 1130051) Volume: 100.00000 mL <== Derived from 01 (100 ml)
 Bottle 25 BOD Analytical Beaker B (Batch 1130051) Volume: 100.00000 mL <== Derived from 01 (100 ml)
 Bottle 26 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1130075) Volume: 20.00000 mL <== Derived from 18 (20 ml)
 Bottle 27 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130125) Volume: 1.00000 mL <== Derived from 03 (962 ml)
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 Bottle 30 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1130185) Volume: 10.00000 mL <== Derived from 12 (5 ml)
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 Bottle 39 Prepared Bottle: 2 mL Autosampler Vial (Batch 1130834) Volume: 1.00000 mL <== Derived from 09 (950 ml)
 Bottle 40 Prepared Bottle: 2 mL Autosampler Vial (Batch 1131510) Volume: 1.00000 mL <== Derived from 16 (848 ml)

Method

Bottle

PrepSet

Preparation

QcGroup

Analytical

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EPA 608.3	35	1130491	07/25/2024	1131492	07/30/2024
EPA 608.3	37	1130501	07/25/2024	1131973	07/30/2024
EPA 615	38	1130640	07/25/2024	1131094	07/31/2024
EPA 632	34	1130476	07/25/2024	1130848	07/30/2024
EPA 300.0 2.1	01	1130412	07/25/2024	1130412	07/25/2024
EPA 604.1	33	1130472	07/26/2024	1131079	07/30/2024
EPA 1657	36	1130498	07/25/2024	1131978	07/30/2024
EPA 625.1	39	1130834	07/29/2024	1131638	08/01/2024
EPA 624.1	22	1130399	07/25/2024	1130399	07/25/2024
EPA 624.1	19	1130401	07/25/2024	1130401	07/25/2024
ASTM D7065-11	40	1131510	08/02/2024	1131902	08/05/2024
TX 1001	27	1130125	07/23/2024	1132373	08/07/2024
EPA 625.1	39	1130834	07/29/2024	1133096	08/12/2024
EPA 200.8 5.4	28	1130176	07/25/2024	1130275	07/25/2024
EPA 200.8 5.4	28	1130176	07/25/2024	1130786	07/29/2024
EPA 200.7 4.4	28	1130176	07/25/2024	1130344	07/25/2024
EPA 245.7 2	32	1130224	07/25/2024	1130500	07/25/2024
EPA 200.7 4.4	28	1130176	07/25/2024	1130586	07/26/2024
Subcontract			07/24/2024		07/24/2024
SM 5210 B-2016 (TCMP Inhibitor)	01	1130051	07/30/2024	1130051	07/30/2024
SM 4500-CN ⁻ G-2016			07/30/2024		07/30/2024
SM 4500-CN ⁻ G-2016	30	1130185	07/25/2024	1130856	07/29/2024
SM 4500-CN ⁻ E-2016	29	1130180	07/25/2024	1130857	07/29/2024
SM 2510 B-2011	01	1131211	08/01/2024	1131211	08/01/2024
Calculation			08/14/2024		08/14/2024
SM 3500-Cr B-2011	14	1133236	08/13/2024	1133236	08/13/2024
SM 3500-Cr B-2011		1130040	07/23/2024	1130040	07/23/2024
EPA 350.1 2	31	1130208	07/25/2024	1130480	07/26/2024
SM 2540 C-2015	02	1130758	07/26/2024	1130758	07/26/2024
EPA 351.2 2	26	1130075	07/25/2024	1130454	07/26/2024
SM 2540 D-2015	01	1130696	07/26/2024	1130696	07/26/2024

Sample	Sample ID	Taken	Time	Received
2319353	WWTP TPDES PR G EAST	07/23/2024	12:30:00	07/24/2024

Bottle 01 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
 Bottle 02 Polyethylene 1/2 gal (White)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 2320 B-2011	02	1131334	08/01/2024	1131334	08/01/2024

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Sample	Sample ID	Taken	Time	Received
2319353	WWTP TPDES PR G EAST	07/23/2024	12:30:00	07/24/2024

Bottle 01 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 02 Polyethylene 1/2 gal (White)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 4500-O G-2016		1130592	07/23/2024	1130592	07/23/2024
Subcontract			07/23/2024		07/23/2024
EPA 1664B	01	1131346	08/01/2024	1131346	08/01/2024
SM 4500-H+ B-2011		1130247	07/23/2024	1130247	07/23/2024

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

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Printed: 08/26/2024

RESULTS

Sample Results

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Non-Potable Water
Composite Stop 13:00 7/23/24
Collected by: WPW
Taken: 07/23/2024

City of Bastrop
13:00:00

PO:

Prepared: 08/12/2024 14:26:00 Analyzed 08/12/2024 14:26:00 TWV

Parameter	Results	Units	RL	Flags	CAS	Bottle
Check Limits	Completed					

ASTM D7065-11 Prepared: 1131510 08/02/2024 11:10:00 Analyzed 1131902 08/05/2024 22:46:00 PMI

Parameter	Results	Units	RL	Flags	CAS	Bottle
Nonylphenol	<35.4	ug/L	35.4		25154-52-3	40

Calculation Prepared: 08/14/2024 10:14:40 Calculated 08/14/2024 10:14:40 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
Trivalent Chromium	<0.003	mg/L	0.003		16065-83-1	

EPA 1657 Prepared: 1130498 07/25/2024 13:45:00 Analyzed 1131978 07/30/2024 01:29:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle
Azinphos-methyl (Guthion)	<0.0495	ug/L	0.0495		86-50-0	36
Chlorpyrifos	<0.0495	ug/L	0.0495		2921-88-2	36
Demeton	<0.0495	ug/L	0.0495	X	8065-48-3	36
Diazinon	<0.0495	ug/L	0.0495		333-41-5	36
Malathion	<0.0495	ug/L	0.0495		121-75-5	36
Parathion, ethyl	<0.0495	ug/L	0.0495		56-38-2	36
Parathion, methyl	<0.0495	ug/L	0.0495		298-00-0	36

EPA 200.7.4.4 Prepared: 1130176 07/25/2024 08:00:00 Analyzed 1130344 07/25/2024 14:07:00 ESG

Parameter	Results	Units	RL	Flags	CAS	Bottle
Boron	0.415	mg/L	0.008		7440-42-8	28
Phosphorus	8.99	mg/L	0.040		7723-14-0	28



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Curtis Hancock
1311 Chestnut St.
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Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Non-Potable Water Collected by: WPW City of Bastrop PO:
Composite Stop 13:00 7/23/24 Taken: 07/23/2024 13:00:00

EPA 200.7 4.4 Prepared: 1130176 07/25/2024 08:00:00 Analyzed 1130586 07/26/2024 15:15:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Magnesium, Total	20.3	mg/L	0.500		7439-95-4	28

EPA 200.8 5.4 Prepared: 1130176 07/25/2024 08:00:00 Analyzed 1130275 07/25/2024 15:10:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Aluminum, Total	0.0422	mg/L	0.00171		7429-90-5	28
NELAC	Barium, Total	0.0836	mg/L	0.001		7440-39-3	28
NELAC	Beryllium, Total	<0.000139	mg/L	0.000139		7440-41-7	28
NELAC	Cadmium, Total	<0.000067	mg/L	0.000067		7440-43-9	28
NELAC	Chromium, Total	0.000665	mg/L	0.001	J	7440-47-3	28
NELAC	Copper, Total	0.0148	mg/L	0.00155		7440-50-8	28
NELAC	Lead, Total	<0.000244	mg/L	0.000244		7439-92-1	28
NELAC	Nickel, Total	0.00246	mg/L	0.00112		7440-02-0	28
NELAC	Silver, Total	<0.000226	mg/L	0.000226		7440-22-4	28
NELAC	Thallium, Total	<0.000106	mg/L	0.000106		7440-28-0	28
NELAC	Zinc, Total	0.141	mg/L	0.001		7440-66-6	28

EPA 200.8 5.4 Prepared: 1130176 07/25/2024 08:00:00 Analyzed 1130786 07/29/2024 18:07:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Antimony, Total	<0.003	mg/L	0.003		7440-36-0	28
NELAC	Arsenic, Total	0.00213	mg/L	0.001		7440-38-2	28
NELAC	Selenium, Total	<0.005	mg/L	0.005		7782-49-2	28

EPA 245.7 2 Prepared: 1130224 07/25/2024 13:00:00 Analyzed 1130500 07/25/2024 17:25:00 RDI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury, Total (low level)	16.2	ng/L	5.32		7439-97-6	32

EPA 300.0 2.1 Prepared: 1130412 07/25/2024 12:24:00 Analyzed 1130412 07/25/2024 12:24:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chloride	146	mg/L	3.00			01
NELAC	Fluoride	0.54	mg/L	0.5			01
NELAC	Nitrate-Nitrogen Total	23.1	mg/L	0.226		14797-55-8	01
NELAC	Sulfate	98.7	mg/L	3.00			01



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2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Non-Potable Water Collected by: WPW City of Bastrop PO:
Composite Stop 13:00 7/23/24 Taken: 07/23/2024 13:00:00

EPA 350.1 2 Prepared: 1130208 07/25/2024 12:36:51 Analyzed 1130480 07/26/2024 06:42:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Ammonia Nitrogen	<0.020	mg/L	0.020			31

EPA 351.2 2 Prepared: 1130075 07/25/2024 08:38:19 Analyzed 1130454 07/26/2024 09:18:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Kjeldahl Nitrogen	<0.050	mg/L	0.050		7727-37-9	26

EPA 604.1 Prepared: 1130472 07/26/2024 13:00:00 Analyzed 1131079 07/30/2024 02:38:00 BRU

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Hexachlorophene	<2.79	ug/L	2.79		70-30-4	33

EPA 608.3 Prepared: 1130491 07/25/2024 13:45:00 Analyzed 1131492 07/30/2024 00:46:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC 4,4-DDD	<0.0099	ug/L	0.0099		72-54-8	35
NELAC 4,4-DDE	<0.0099	ug/L	0.0099		72-55-9	35
NELAC 4,4-DDT	<0.0099	ug/L	0.0099		50-29-3	35
NELAC Aldrin	<0.0099	ug/L	0.0099		309-00-2	35
NELAC Alpha-BHC(hexachlorocyclohexane)	<0.0099	ug/L	0.0099		319-84-6	35
NELAC Beta-BHC(hexachlorocyclohexane)	<0.0099	ug/L	0.0099		319-85-7	35
NELAC Chlordane	<0.198	ug/L	0.198		57-74-9	35
NELAC Delta-BHC(hexachlorocyclohexane)	<0.0099	ug/L	0.0099		319-86-8	35
NELAC Dieldrin	<0.0099	ug/L	0.0099		60-57-1	35
NELAC Endosulfan I (alpha)	<0.0099	ug/L	0.0099		959-98-8	35
NELAC Endosulfan II (beta)	<0.0099	ug/L	0.0099		33213-65-9	35
NELAC Endosulfan sulfate	<0.0099	ug/L	0.0099		1031-07-8	35
NELAC Endrin	<0.0099	ug/L	0.0099		72-20-8	35
NELAC Endrin aldehyde	<0.0099	ug/L	0.0099		7421-93-4	35
NELAC Gamma-BHC(Lindane)	<0.0099	ug/L	0.0099		58-89-9	35
NELAC Heptachlor	<0.0099	ug/L	0.0099		76-44-8	35
NELAC Heptachlor epoxide	<0.0099	ug/L	0.0099		1024-57-3	35
z Kelthane (Dicofol)	<0.099	ug/L	0.099		115-32-2	35
NELAC Methoxychlor	<0.0099	ug/L	0.0099		72-43-5	35
z Mirex	<0.0149	ug/L	0.0149		2385-85-5	35



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2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Non-Potable Water Collected by: WPW City of Bastrop PO:
Composite Stop 13:00 7/23/24 Taken: 07/23/2024 13:00:00

EPA 608.3 Prepared: 1130491 07/25/2024 13:45:00 Analyzed 1131492 07/30/2024 00:46:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Toxaphene	<0.198	ug/L	0.198		8001-35-2	35

EPA 608.3 Prepared: 1130501 07/25/2024 13:45:00 Analyzed 1131973 07/30/2024 00:46:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.200	ug/L	0.200	XD	12674-11-2	37
NELAC	PCB-1221	<0.198	ug/L	0.198		11104-28-2	37
NELAC	PCB-1232	<0.198	ug/L	0.198		11141-16-5	37
NELAC	PCB-1242	<0.198	ug/L	0.198		53469-21-9	37
NELAC	PCB-1248	<0.198	ug/L	0.198		12672-29-6	37
NELAC	PCB-1254	<0.198	ug/L	0.198		11097-69-1	37
NELAC	PCB-1260	<0.198	ug/L	0.198		11096-82-5	37
NELAC	PCB-1262	<0.198	ug/L	0.198		37324-23-5	37
NELAC	PCB-1268	<0.198	ug/L	0.198		11100-14-4	37

EPA 615 Prepared: 1130640 07/25/2024 13:00:00 Analyzed 1131094 07/31/2024 03:15:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.540	ug/L	0.540	S	94-75-7	38
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300	D	93-72-1	38

EPA 624.1 Prepared: 1130399 07/25/2024 13:26:00 Analyzed 1130399 07/25/2024 13:26:00 MRI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Acrolein	<4.00	ug/L	4.00		107-02-8	22
NELAC	Acrylonitrile	<1.00	ug/L	1.00		107-13-1	22

EPA 624.1 Prepared: 1130401 07/25/2024 14:11:00 Analyzed 1130401 07/25/2024 14:11:00 MRI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,1,1-Trichloroethane	<1.00	ug/L	1.00		71-55-6	19
NELAC	1,1,2,2-Tetrachloroethane	<1.00	ug/L	1.00		79-34-5	19
NELAC	1,1,2-Trichloroethane	<1.00	ug/L	1.00		79-00-5	19
NELAC	1,1-Dichloroethane	<1.00	ug/L	1.00		75-34-3	19
NELAC	1,1-Dichloroethylene	<1.00	ug/L	1.00		75-35-4	19
NELAC	1,2-Dibromoethane (EDB)	<1.00	ug/L	1.00		106-93-4	19
NELAC	1,2-Dichloroethane	<1.00	ug/L	1.00		107-06-2	19



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1111894

Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Non-Potable Water

Collected by: WPW

City of Bastrop

PO:

Composite Stop 13:00

7/23/24

Taken: 07/23/2024

13:00:00

EPA 624.1

Prepared: 1130401 07/25/2024 14:11:00 Analyzed 1130401 07/25/2024 14:11:00 MRI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2-Dichloropropane	<1.00	ug/L	1.00		78-87-5	19
NELAC	2-Chloroethylvinyl ether	<1.00	ug/L	1.00		110-75-8	19
NELAC	Benzene	<1.00	ug/L	1.00		71-43-2	19
NELAC	Bromodichloromethane	16.5	ug/L	1.00		75-27-4	19
NELAC	Bromoform	1.09	ug/L	1.00		75-25-2	19
NELAC	Bromomethane (Methyl Bromi	<1.00	ug/L	1.00		74-83-9	19
NELAC	Carbon Tetrachloride	<1.00	ug/L	1.00		56-23-5	19
NELAC	Chlorobenzene	<1.00	ug/L	1.00		108-90-7	19
NELAC	Chloroethane	<1.12	ug/L	1.12		75-00-3	19
NELAC	Chloroform	29.0	ug/L	1.00		67-66-3	19
NELAC	Chloromethane (Methyl Chloride)	<1.00	ug/L	1.00		74-87-3	19
NELAC	cis-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-01-5	19
NELAC	Dibromochloromethane	7.81	ug/L	1.00		124-48-1	19
NELAC	Dichloromethane	<1.02	ug/L	1.02		75-09-2	19
NELAC	Ethylbenzene	<1.00	ug/L	1.00		100-41-4	19
NELAC	m-Dichlorobenzene (1,3-DCB)	<1.00	ug/L	1.00		541-73-1	19
NELAC	Methyl ethyl ketone (Butanone)	<1.00	ug/L	1.00		78-93-3	19
NELAC	o-Dichlorobenzene (1,2-DCB)	<1.00	ug/L	1.00		95-50-1	19
NELAC	p-Dichlorobenzene (1,4-DCB)	<1.00	ug/L	1.00		106-46-7	19
NELAC	Tetrachloroethylene	<1.00	ug/L	1.00		127-18-4	19
NELAC	Toluene	<1.00	ug/L	1.00		108-88-3	19
NELAC	trans-1,2-Dichloroethylene	<1.00	ug/L	1.00		156-60-5	19
NELAC	Trichloroethylene	<1.00	ug/L	1.00		79-01-6	19
NELAC	Vinyl chloride	<1.00	ug/L	1.00		75-01-4	19

EPA 624.1

Prepared: 1130401 07/26/2024 14:15:17 Calculated 1130401 07/26/2024 14:15:17 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trihalomethanes (Total)	0.0544	mg/L	0.001			19

EPA 625.1

Prepared: 1130834 07/29/2024 10:00:00 Analyzed 1131638 08/01/2024 19:44:00 PMI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<1.05	ug/L	1.05		95-94-3	39
NELAC	1,2,4-Trichlorobenzene	<1.05	ug/L	1.05		120-82-1	39
NELAC	1,2-DPH (as azobenzene)	<1.05	ug/L	1.05		122-66-7	39



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1111894

Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Non-Potable Water

Collected by: WPW

City of Bastrop

PO:

Composite Stop 13:00

7/23/24

Taken: 07/23/2024

13:00:00

EPA 625.1

Prepared: 1130834 07/29/2024 10:00:00 Analyzed 1131638 08/01/2024 19:44:00 PMI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4,5-Trichlorophenol	<1.05	ug/L	1.05		95-95-4	39
NELAC	2,4,6-Trichlorophenol	<1.05	ug/L	1.05		88-06-2	39
NELAC	2,4-Dichlorophenol	<1.05	ug/L	1.05		120-83-2	39
NELAC	2,4-Dimethylphenol	<2.53	ug/L	2.53		105-67-9	39
NELAC	2,4-Dinitrophenol	<9.47	ug/L	9.47		51-28-5	39
NELAC	2,4-Dinitrotoluene	<3.68	ug/L	3.68		121-14-2	39
NELAC	2,6-Dinitrotoluene	<1.05	ug/L	1.05		606-20-2	39
NELAC	2-Chloronaphthalene	<1.05	ug/L	1.05		91-58-7	39
NELAC	2-Chlorophenol	<1.05	ug/L	1.05		95-57-8	39
NELAC	2-Methylphenol (o-Cresol)	<5.47	ug/L	5.47		95-48-7	39
NELAC	2-Nitrophenol	<1.05	ug/L	1.05		88-75-5	39
NELAC	3&4-Methylphenol (m&p-Cresol)	<6.53	ug/L	6.53		MEPH34	39
NELAC	3,3'-Dichlorobenzidine	<5.00	ug/L	5.00		91-94-1	39
NELAC	4,6-Dinitro-2-methylphenol	<8.42	ug/L	8.42		534-52-1	39
NELAC	4-Bromophenyl phenyl ether	<1.05	ug/L	1.05		101-55-3	39
NELAC	4-Chlorophenyl phenyl ethe	<1.05	ug/L	1.05		7005-72-3	39
NELAC	4-Nitrophenol	<1.05	ug/L	1.05		100-02-7	39
NELAC	Acenaphthene	<1.05	ug/L	1.05		83-32-9	39
NELAC	Acenaphthylene	<1.05	ug/L	1.05		208-96-8	39
z	Aniline	<1.05	ug/L	1.05	S	62-53-3	39
NELAC	Anthracene	<1.05	ug/L	1.05		120-12-7	39
NELAC	Benzidine	<21.1	ug/L	21.1	D	92-87-5	39
NELAC	Benzo(a)anthracene	<1.05	ug/L	1.05		56-55-3	39
NELAC	Benzo(a)pyrene	<1.05	ug/L	1.05		50-32-8	39
NELAC	Benzo(b)fluoranthene	<1.05	ug/L	1.05		205-99-2	39
NELAC	Benzo(ghi)perylene	<1.05	ug/L	1.05		191-24-2	39
NELAC	Benzo(k)fluoranthene	<1.05	ug/L	1.05		207-08-9	39
NELAC	Benzyl Butyl phthalate	<7.89	ug/L	7.89		85-68-7	39
NELAC	Bis(2-chloroethoxy)methane	<1.05	ug/L	1.05		111-91-1	39
NELAC	Bis(2-chloroethyl)ether	<1.05	ug/L	1.05		111-44-4	39
NELAC	Bis(2-chloroisopropyl)ether	<1.05	ug/L	1.05		108-60-1	39
NELAC	Bis(2-ethylhexyl)phthalate	<7.89	ug/L	7.89	X	117-81-7	39
NELAC	Chrysene (Benzo(a)phenanthrene)	<1.05	ug/L	1.05		218-01-9	39
NELAC	Dibenz(a,h)anthracene	<1.05	ug/L	1.05		53-70-3	39
NELAC	Diethyl phthalate	<6.00	ug/L	6.00		84-66-2	39
NELAC	Dimethyl phthalate	<5.05	ug/L	5.05		131-11-3	39



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1111894

Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Non-Potable Water Collected by: WPW
Composite Stop 13:00 7/23/24 Taken: 07/23/2024

City of Bastrop PO:
13:00:00

EPA 625.1 Prepared: 1130834 07/29/2024 10:00:00 Analyzed 1131638 08/01/2024 19:44:00 PMI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Di-n-butylphthalate	<7.89	ug/L	7.89		84-74-2	39
NELAC	Di-n-octylphthalate	<1.05	ug/L	1.05	X	117-84-0	39
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<1.05	ug/L	1.05		206-44-0	39
NELAC	Fluorene	<1.05	ug/L	1.05		86-73-7	39
NELAC	Hexachlorobenzene	<1.05	ug/L	1.05		118-74-1	39
NELAC	Hexachlorobutadiene	<1.05	ug/L	1.05		87-68-3	39
NELAC	Hexachlorocyclopentadiene	<9.47	ug/L	9.47		77-47-4	39
NELAC	Hexachloroethane	<1.05	ug/L	1.05		67-72-1	39
NELAC	Indeno(1,2,3-cd)pyrene	<1.05	ug/L	1.05		193-39-5	39
NELAC	Isophorone	<1.05	ug/L	1.05		78-59-1	39
NELAC	Naphthalene	<1.05	ug/L	1.05		91-20-3	39
NELAC	Nitrobenzene	<1.05	ug/L	1.05		98-95-3	39
NELAC	n-Nitrosodiethylamine	<1.05	ug/L	1.05		55-18-5	39
NELAC	N-Nitrosodimethylamine	<7.37	ug/L	7.37		62-75-9	39
NELAC	n-Nitroso-di-n-butylamine	<1.05	ug/L	1.05		924-16-3	39
NELAC	N-Nitrosodi-n-propylamine	<1.05	ug/L	1.05		621-64-7	39
NELAC	N-Nitrosodiphenylamine (as DPA	<1.05	ug/L	1.05		86-30-6	39
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<2.53	ug/L	2.53		59-50-7	39
NELAC	Pentachlorobenzene	<1.05	ug/L	1.05		608-93-5	39
NELAC	Pentachlorophenol	<1.05	ug/L	1.05		87-86-5	39
NELAC	Phenanthrene	<1.05	ug/L	1.05		85-01-8	39
NELAC	Phenol	<1.58	ug/L	1.58		108-95-2	39
NELAC	Pyrene	<1.05	ug/L	1.05		129-00-0	39
NELAC	Pyridine	<5.68	ug/L	5.68		110-86-1	39

EPA 625.1 Prepared: 1130834 07/29/2024 10:00:00 Calculated 1131638 08/05/2024 16:57:27 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cresols Total	<6.53	ug/L	6.53		1319-77-3, etc.	39

EPA 625.1 Prepared: 1130834 07/29/2024 10:00:00 Analyzed 1133096 08/12/2024 16:25:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	bis(Chloromethyl)ether	<10.5	ug/L	10.5		542-88-1	39



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1111894

Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Non-Potable Water Collected by: WPW
Composite Stop 13:00 7/23/24 Taken: 07/23/2024

City of Bastrop PO:
13:00:00

EPA 632 Prepared: 1130476 07/25/2024 13:45:22 Analyzed 1130848 07/30/2024 02:24:00 BRU

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Carbaryl (Sevin)	<2.48	ug/L	2.48		63-25-2	34
Diuron	<0.0446	ug/L	0.0446		330-54-1	34

SM 2510 B-2011 Prepared: 1131211 08/01/2024 07:15:00 Analyzed 1131211 08/01/2024 07:15:00 JDK

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Lab Spec. Conductance at 25 C	1180	umhos/cm				01

SM 2540 C-2015 Prepared: 1130758 07/26/2024 10:10:00 Analyzed 1130758 07/26/2024 10:10:00 JMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Dissolved Solids	760	mg/L	50.0			02

SM 2540 D-2015 Prepared: 1130696 07/26/2024 09:00:00 Analyzed 1130696 07/26/2024 09:00:00 ADR

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Suspended Solids	7.43	mg/L	5.71			01

SM 3500-Cr B-2011 Prepared: 1130040 07/23/2024 13:00:00 Analyzed 1130040 07/23/2024 13:00:00 WPW

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Hex Cr, Field Preservation	PRESERVED	ug/L	3		18540-29-9	

SM 3500-Cr B-2011 Prepared: 1133236 08/13/2024 08:00:00 Analyzed 1133236 08/13/2024 08:00:00 ALB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Hexavalent Chromium	<3.00	ug/L	3.00		18540-29-9	14

SM 4500-CN⁻ E-2016 Prepared: 1130180 07/25/2024 10:44:56 Analyzed 1130857 07/29/2024 09:54:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Cyanide, total	0.0196	mg/L	0.005			29



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1111894

Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Non-Potable Water Collected by: WPW City of Bastrop PO:
Composite Stop 13:00 7/23/24 Taken: 07/23/2024 13:00:00

SM 4500-CN⁻G-2016 Prepared: 07/30/2024 13:33:04 Calculated 07/30/2024 13:33:04 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Cyanide - Available/Amenable	0.0146	mg/L	0.005			

SM 4500-CN⁻G-2016 Prepared: 1130185 07/25/2024 11:04:57 Analyzed 1130856 07/29/2024 09:54:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Cyanide After Chlorination	<0.005	mg/L	0.005			30

SM 5210 B-2016 (TCMP Inhibitor) Prepared: 1130051 07/25/2024 Analyzed 1130051 07/30/2024 13:03:18 ESN

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC BOD Carbonaceous	2.60	mg/L	2.00			01

Subcontract Prepared: 07/24/2024 11:38:00 Analyzed 07/24/2024 11:38:00 SUB

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Asbestos-liquid (Electron Micros	See Attached				EMSL Houston	

TX 1001 Prepared: 1130125 07/23/2024 15:35:00 Analyzed 1132373 08/07/2024 21:24:00 DWL

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Tributyltin hydride	<0.00728	ug/L	0.00728		688-73-3	27

2319353 WWTP TPDES PR G EAST

Received: 07/24/2024

Non-Potable Water Collected by: WPW SPL Kilgore PO:
Taken: 07/23/2024 12:30:00

Client Prepared: 1130030 07/23/2024 12:35:00 Analyzed 1130030 07/23/2024 12:35:00 WPW

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Cl2 Res(Total)Analyzed by client	0.59	mg/L				



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1111894

Printed: 08/26/2024

2319353 WWTP TPDES PR G EAST

Received: 07/24/2024

Non-Potable Water

Collected by: WPW
Taken: 07/23/2024

SPL Kilgore
12:30:00

PO:

EPA 1664B Prepared: 1131346 08/01/2024 13:45:00 Analyzed 1131346 08/01/2024 13:45:00 RCI

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Oil and Grease (HEM)	<4.72	mg/L	4.72			01

SM 2320 B-2011 Prepared: 1131334 08/01/2024 09:12:00 Analyzed 1131334 08/01/2024 09:12:00 KN1

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Alkalinity (as CaCO3)	177	mg/L	1.00			02

SM 4500-H+ B-2011 Prepared: 1130247 07/23/2024 12:30:00 Analyzed 1130247 07/23/2024 12:30:00 WPW

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC pH (Onsite)	7.0	SU				

SM 4500-O G-2016 Prepared: 1130592 07/23/2024 12:30:00 Analyzed 1130592 07/23/2024 12:30:00 WPW

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Dissolved Oxygen Onsite	7.6	mg/L	1.0			

Subcontract Prepared: 07/23/2024 17:50:00 Analyzed 07/23/2024 17:50:00 SUB

Parameter	Results	Units	RL	Flags	CAS	Bottle
MPN, E.coli, Colilert-18-WW/SUB	See Attached				LCRA	

Sample Preparation

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Composite Stop 13:00 7/23/24 07/23/2024

Prepared: 07/24/2024 16:48:19 Calculated 07/24/2024 16:48:19 CAL

Environmental Fee (per Project)
SUB Shipped

Verified
Verified



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1111894

Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Composite Stop 13:00 7/23/24 07/23/2024

		Prepared:	07/24/2024	16:48:19	Calculated	07/24/2024	16:48:19	CAL		
z	SUB Shipped	Verified								
	ASTM D7065-11	Prepared:	1131510	08/02/2024	11:10:00	Analyzed	1131902	08/05/2024	22:46:00	PM1
z	Nonyl Phenol Expansion	Entered							40	
	EPA 1657	Prepared:	1130498	07/25/2024	13:45:00	Analyzed	1131978	07/30/2024	01:29:00	KAP
z	Organophos. Pesticides/1657	Entered							36	
	EPA 200.2 2.8	Prepared:	1130176	07/25/2024	08:00:00	Analyzed	1130176	07/25/2024	08:00:00	HLT
z	Liquid Metals Digestion	50/50	ml							11
	EPA 245.7 2	Prepared:	1130224	07/25/2024	13:00:00	Analyzed	1130224	07/25/2024	13:00:00	RD1
NELAC	Low Level Mercury Liquid Metals	50/47	ml							15
	EPA 350.2, Rev. 2.0	Prepared:	1130208	07/25/2024	12:36:51	Analyzed	1130208	07/25/2024	12:36:51	MEG
NELAC	Ammonia Distillation	6/6	ml							18
	EPA 351.2, Rev 2.0	Prepared:	1130075	07/25/2024	08:38:19	Analyzed	1130075	07/25/2024	08:38:19	MEG
NELAC	TKN Block Digestion	20/20	ml							18



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
1111894

Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Composite Stop 13:00 7/23/24 07/23/2024

EPA 604.1	Prepared: 1130472 07/26/2024 13:00:00	Analyzed 1130472 07/26/2024 13:00:00	CRS
Hexachlorophene Extraction	5/896 ml		05
EPA 604.1	Prepared: 1130472 07/26/2024 13:00:00	Analyzed 1131079 07/30/2024 02:38:00	BRU
Hexachlorophene Expansion	Entered	70-30-4	33
EPA 608.3	Prepared: 1130491 07/25/2024 13:45:00	Analyzed 1130491 07/25/2024 13:45:00	LSM
Liquid-Liquid Extr. W/Hex Ex	1/1010 ml		04
EPA 608.3	Prepared: 1130491 07/25/2024 13:45:00	Analyzed 1131492 07/30/2024 00:46:00	KAP
Pesticides by GC	Entered		35
EPA 608.3	Prepared: 1130498 07/25/2024 13:45:00	Analyzed 1130498 07/25/2024 13:45:00	LSM
Solvent Extraction	1/1010 ml		04
EPA 608.3	Prepared: 1130501 07/25/2024 13:45:00	Analyzed 1130501 07/25/2024 13:45:00	LSM
PCB Liq-Liq Extr. W/Hex Exch.	1/1010 ml		04
EPA 608.3	Prepared: 1130501 07/25/2024 13:45:00	Analyzed 1131973 07/30/2024 00:46:00	KAP
Polychlorinated Biphenyls	Entered		37
EPA 615	Prepared: 1130640 07/25/2024 13:00:00	Analyzed 1130640 07/25/2024 13:00:00	MCC
Esterification of Sample	10/926 ml		07
EPA 615	Prepared: 1130640 07/25/2024 13:00:00	Analyzed 1131094 07/31/2024 03:15:00	KAP



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Project
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Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Composite Stop 13:00 7/23/24 07/23/2024

EPA 615 Prepared: 1130640 07/25/2024 13:00:00 Analyzed 1131094 07/31/2024 03:15:00 KAP

NELAC Herbicides by GC Entered 38

EPA 624.1 Prepared: 1130399 07/25/2024 13:26:00 Analyzed 1130399 07/25/2024 13:26:00 MRI

NELAC Acrolein/Acrylonitrile Exp. Entered 22

EPA 624.1 Prepared: 1130401 07/25/2024 14:11:00 Analyzed 1130401 07/25/2024 14:11:00 MRI

z Table 7 Volatiles + MEK/EDB Entered 19

EPA 625.1 Prepared: 1130834 07/29/2024 10:00:00 Analyzed 1130834 07/29/2024 10:00:00 MCC

Liquid-Liquid Extraction, BNA 1/950 ml 09

EPA 625.1 Prepared: 1130834 07/29/2024 10:00:00 Analyzed 1131638 08/01/2024 19:44:00 PMI

NELAC TTO SVOC 40 CFR 122 Table II Entered 39

EPA 625.1 Prepared: 1130834 07/29/2024 10:00:00 Analyzed 1133096 08/12/2024 16:25:00 DWL

z bis(Chloromethyl)ether Expansion Entered 39

EPA 625.1 Prepared: 1131510 08/02/2024 11:10:00 Analyzed 1131510 08/02/2024 11:10:00 MCC

Nonylphenol Liq-Liq Extract 1/848 ml 16

EPA 632 Prepared: 1130476 07/25/2024 13:45:22 Analyzed 1130476 07/25/2024 13:45:22 LSM

Liquid-Liquid Extr. W/Hex Ex 1/1010 ml 04



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Printed: 08/26/2024

2319341 WWTP TPDES PR C EAST

COMP 7/22 1300-7/23 1300

Received: 07/24/2024

Composite Stop 13:00 7/23/24 07/23/2024

EPA 632 Prepared: 1130476 07/25/2024 13:45:22 Analyzed 1130848 07/30/2024 02:24:00 BRU

NELAC Carbaryl/Diuron Entered 34

SM 2540 C-2015 Prepared: 1130424 07/26/2024 10:10:00 Analyzed 1130424 07/26/2024 10:10:00 JMB

NELAC Total Dissolved Solids Started Started

SM 2540 D-2011 Prepared: 1130217 07/26/2024 09:00:00 Analyzed 1130217 07/26/2024 09:00:00 ADR

NELAC TSS Set Started Started

SM 4500-CN⁻ C-2016 Prepared: 1130180 07/25/2024 10:44:56 Analyzed 1130180 07/25/2024 10:44:56 MEG

NELAC Cyanide Distillation 10/5 ml 12

SM 4500-CN⁻ C-2016 Prepared: 1130185 07/25/2024 11:04:57 Analyzed 1130185 07/25/2024 11:04:57 MEG

NELAC CN Dist After Chlorination 10/5 ml 12

SM 5210 B-2016 (TCMP Inhibitor) Prepared: 1130051 07/25/2024 Analyzed 1130051 07/25/2024 06:53:56 ESN

NELAC BOD₅ Set Started Started

TX 1001 Prepared: 1130125 07/23/2024 15:35:00 Analyzed 1130125 07/23/2024 15:35:00 CRS

z Butyltins Extraction 1/962 ml 03

TX 1001 Prepared: 1130125 07/23/2024 15:35:00 Analyzed 1132373 08/07/2024 21:24:00 DWL

z Butyltin Expansion Entered 27



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Qualifiers:

J - Analyte detected below quantitation limit
X - Standard reads higher than desired.

D - Duplicate RPD was higher than expected
S - Standard reads lower than desired


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



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
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Analytical Set

1130051

SM 5210 B-2016 (TCMP Inhibitor)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1130051	0.1	0.200	0.500	mg/L	126588261
BOD Carbonaceous	1130051	0.1	0.200	0.500	mg/L	126588311

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
BOD Carbonaceous	2319063	111	105	mg/L	5.56	30.0
BOD Carbonaceous	2319182	3.25	3.53	mg/L	8.26	30.0
BOD Carbonaceous	2319333	9.64	10.1	mg/L	4.66	30.0
BOD Carbonaceous	2319512	2.96	ND	mg/L	200 *	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1130051	0.717	0.200	0.500	mg/L	126588263
BOD Carbonaceous	1130051	0.890	0.200	0.500	mg/L	126588313

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
BOD Carbonaceous		229	198	mg/L	116	83.7 - 116	126588264
BOD Carbonaceous		212	198	mg/L	107	83.7 - 116	126588314

Analytical Set

1130454

EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1130075	ND	0.00712	0.050	mg/L	126596844

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	4.99	5.00	mg/L	99.8	90.0 - 110	126596843
Total Kjeldahl Nitrogen	5.07	5.00	mg/L	101	90.0 - 110	126596846
Total Kjeldahl Nitrogen	5.08	5.00	mg/L	102	90.0 - 110	126596855
Total Kjeldahl Nitrogen	5.06	5.00	mg/L	101	90.0 - 110	126596865
Total Kjeldahl Nitrogen	5.09	5.00	mg/L	102	90.0 - 110	126596874

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2319085	0.932	0.886	mg/L	5.06	20.0
Total Kjeldahl Nitrogen	2319380	0.565	0.585	mg/L	3.48	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.07	5.00	mg/L	101	90.0 - 110	126596842

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1130075	5.03	4.87	5.00	90.0 - 110	101	97.4	mg/L	3.23	20.0

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Mat. Spike								
Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Kjeldahl Nitrogen	2319085	5.48	0.886	5.00	mg/L	91.9	80.0 - 120	126596850
Total Kjeldahl Nitrogen	2319380	5.48	0.585	5.00	mg/L	97.9	80.0 - 120	126596853

Analytical Set 1130480 EPA 350.1 2

Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen	1130208	ND	0.00336	0.020	mg/L	126597660

CCV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	126597614
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	126597621
Ammonia Nitrogen	2.11	2.00	mg/L	106	90.0 - 110	126597626
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	126597637
Ammonia Nitrogen	2.09	2.00	mg/L	104	90.0 - 110	126597648
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	126597655
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	126597666
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	126597673
Ammonia Nitrogen	2.05	2.00	mg/L	102	90.0 - 110	126597679
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	126597690
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	126597699
Ammonia Nitrogen	2.03	2.00	mg/L	102	90.0 - 110	126597708
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	126597718
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	126597719
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	126597730
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	126597740
Ammonia Nitrogen	2.05	2.00	mg/L	102	90.0 - 110	126597747
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	126597749

Duplicate						
Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Ammonia Nitrogen	2319383	0.149	0.167	mg/L	11.4	20.0
Ammonia Nitrogen	2319386	ND	ND	mg/L		20.0

ICV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	126597613

LCS Dup										
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ammonia Nitrogen	1130208	1.97	2.00	2.00	90.0 - 110	98.5	100	mg/L	1.51	20.0

Mat. Spike								
Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Ammonia Nitrogen	2319383	2.18	0.167	2.00	mg/L	101	80.0 - 120	126597665
Ammonia Nitrogen	2319386	2.08	ND	2.00	mg/L	104	80.0 - 120	126597669

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
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Analytical Set 1130856

SM 4500-CN⁻ G-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide After Chlorination	1130185	ND	0.00119	0.0025	mg/L	126607059

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide After Chlorination	0.510	0.500	mg/L	102	90.0 - 110	126607057
Cyanide After Chlorination	0.510	0.500	mg/L	102	90.0 - 110	126607068
Cyanide After Chlorination	0.506	0.500	mg/L	101	90.0 - 110	126607079
Cyanide After Chlorination	0.508	0.500	mg/L	102	90.0 - 110	126607085
Cyanide After Chlorination	0.506	0.500	mg/L	101	90.0 - 110	126607086
Cyanide After Chlorination	0.506	0.500	mg/L	101	90.0 - 110	126607087
Cyanide After Chlorination	0.504	0.500	mg/L	101	90.0 - 110	126607088
Cyanide After Chlorination	0.503	0.500	mg/L	101	90.0 - 110	126607089
Cyanide After Chlorination	0.512	0.500	mg/L	102	90.0 - 110	126607090
Cyanide After Chlorination	0.514	0.500	mg/L	103	90.0 - 110	126607091
Cyanide After Chlorination	0.509	0.500	mg/L	102	90.0 - 110	126607092
Cyanide After Chlorination	0.509	0.500	mg/L	102	90.0 - 110	126607093
Cyanide After Chlorination	0.512	0.500	mg/L	102	90.0 - 110	126607094

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cyanide After Chlorination	2318773	ND	ND	mg/L		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide After Chlorination	0.199	0.200	mg/L	99.5	90.0 - 110	126607056

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide After Chlorination	1130185	0.197	0.200	0.200	90.0 - 110	98.5	100	mg/L	1.51	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide After Chlorination	2318773	0.397	ND	0.400	mg/L	99.2	90.0 - 110	126607064

Analytical Set 1130857

SM 4500-CN⁻ E-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1130180	ND	0.00238	0.005	mg/L	126607107

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.510	0.500	mg/L	102	90.0 - 110	126607103
Cyanide, total	0.510	0.500	mg/L	102	90.0 - 110	126607105
Cyanide, total	0.506	0.500	mg/L	101	90.0 - 110	126607106
Cyanide, total	0.508	0.500	mg/L	102	90.0 - 110	126607112

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.506	0.500	mg/L	101	90.0 - 110	126607123
Cyanide, total	0.506	0.500	mg/L	101	90.0 - 110	126607132
Cyanide, total	0.504	0.500	mg/L	101	90.0 - 110	126607143
Cyanide, total	0.503	0.500	mg/L	101	90.0 - 110	126607154
Cyanide, total	0.512	0.500	mg/L	102	90.0 - 110	126607165
Cyanide, total	0.514	0.500	mg/L	103	90.0 - 110	126607176
Cyanide, total	0.509	0.500	mg/L	102	90.0 - 110	126607187
Cyanide, total	0.509	0.500	mg/L	102	90.0 - 110	126607198
Cyanide, total	0.512	0.500	mg/L	102	90.0 - 110	126607207

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cyanide, total	2318971	ND	ND	mg/L		20.0
Cyanide, total	2318976	ND	ND	mg/L		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.199	0.200	mg/L	99.5	90.0 - 110	126607102

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide, total	1130180	0.386	0.394	0.400	90.0 - 110	96.5	98.5	mg/L	2.05	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide, total	2318971	0.397	ND	0.400	mg/L	99.2	90.0 - 110	126607113
Cyanide, total	2318976	0.388	ND	0.400	mg/L	97.0	90.0 - 110	126607116

Analytical Set

1130247

SM 4500-H+ B-2011

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
pH (Onsite)	6.0	6.0	SU	100	90 - 110	
pH (Onsite)	6.1	6.0	SU	101.7	90 - 110	

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
pH (Onsite)	1130247	7.9	8.0	SU	98.8	90 - 110	
pH (Onsite)	1130247	7.9	8.0	SU	98.8	90 - 110	

Analytical Set

1130696

SM 2540 D-2015

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1130696	ND	2	2	mg/L	126602476

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1130696	-0.0002			grams	126602475

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Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Total Suspended Solids	2319369	32.0	30.5	mg/L	4.80	20.0
Total Suspended Solids	2319838	7920	7910	mg/L	0.126	20.0
Total Suspended Solids	2319885	55.0	59.0	mg/L	7.02	20.0

LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>
Total Suspended Solids	1130696	47.0	50.0	mg/L	94.0	90.0 - 110	126602509

Standard

<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Total Suspended Solids		98.0	100	mg/L	98.0	90.0 - 110	126602508

Analytical Set

1130758

SM 2540 C-2015

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Dissolved Solids	1130758	ND	5.00	5.00	mg/L	126603886

ControlBlk

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Dissolved Solids	1130758	0.0004			grams	126603873

Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Total Dissolved Solids	2318834	ND	ND	mg/L		20.0

LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>
Total Dissolved Solids	1130758	198	200	mg/L	99.0	85.0 - 115	126603887

Standard

<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Total Dissolved Solids		104	100	mg/L	104	90.0 - 110	126603874

Analytical Set

1131346

EPA 1664B

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Oil and Grease (HEM)	1131346	ND	0.557	4.00	mg/L	126616633

LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>
Oil and Grease (HEM)	1131346	37.0	40.0	mg/L	92.5	78.0 - 114	126616634

Analytical Set

1130412

EPA 300.0 2.1

AWRL/LOQ C

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Fluoride	0.084	0.100	mg/L	84.0	70.0 - 130	126596017
Nitrate-Nitrogen Total	0.0244	0.0226	mg/L	108	70.0 - 130	126596017

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride	1130412	ND	0.0593	0.300	mg/L	126596018
Fluoride	1130412	ND	0.0112	0.100	mg/L	126596018
Nitrate-Nitrogen Total	1130412	ND	0.00331	0.0226	mg/L	126596018
Sulfate	1130412	ND	0.0605	0.300	mg/L	126596018

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride	1130412	0.025	0.0593	0.300	mg/L	126596014
Chloride	1130412	0.021	0.0593	0.300	mg/L	126596033
Fluoride	1130412	0.040	0.0112	0.100	mg/L	126596014
Fluoride	1130412	0	0.0112	0.100	mg/L	126596033
Nitrate-Nitrogen Total	1130412	0.0418	0.00331	0.0226	mg/L	126596014
Nitrate-Nitrogen Total	1130412	-0.00316	0.00331	0.0226	mg/L	126596033
Sulfate	1130412	0	0.0605	0.300	mg/L	126596014
Sulfate	1130412	0	0.0605	0.300	mg/L	126596033

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chloride	10.1	10.0	mg/L	101	90.0 - 110	126596013
Chloride	10.1	10.0	mg/L	101	90.0 - 110	126596031
Fluoride	10.1	10.0	mg/L	101	90.0 - 110	126596013
Fluoride	10.1	10.0	mg/L	101	90.0 - 110	126596031
Nitrate-Nitrogen Total	2.35	2.26	mg/L	104	90.0 - 110	126596013
Nitrate-Nitrogen Total	2.33	2.26	mg/L	103	90.0 - 110	126596031
Sulfate	10.3	10.0	mg/L	103	90.0 - 110	126596013
Sulfate	9.99	10.0	mg/L	99.9	90.0 - 110	126596031

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride	1130412	4.81	4.82	5.00	85.0 - 115	96.2	96.4	mg/L	0.208	20.0
Fluoride	1130412	5.17	5.16	5.00	88.0 - 120	103	103	mg/L	0.194	20.0
Nitrate-Nitrogen Total	1130412	1.11	1.10	1.13	88.0 - 116	98.2	97.3	mg/L	0.905	20.0
Sulfate	1130412	4.72	4.69	5.00	85.0 - 115	94.4	93.8	mg/L	0.638	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride	2318725	336	308	238	100	80.0 - 120	98.0	70.0 *	mg/L	33.3 *	20.0
Fluoride	2318725	109	101	ND	100	80.0 - 120	109	101	mg/L	7.62	20.0
Nitrate-Nitrogen Total	2318725	25.1	23.0	0.429	22.6	80.0 - 120	109	99.9	mg/L	8.89	20.0
Sulfate	2318725	622	513	475	100	80.0 - 120	147 *	38.0 *	mg/L	118 *	20.0

Analytical Set

1130275

EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Aluminum, Total	1130176	ND	0.00171	0.00171	mg/L	126593015
Barium, Total	1130176	ND	0.000635	0.001	mg/L	126593015

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Beryllium, Total	1130176	ND	0.000139	0.001	mg/L	126593015
Cadmium, Total	1130176	ND	0.000067	0.001	mg/L	126593015
Chromium, Total	1130176	ND	0.000621	0.001	mg/L	126593015
Copper, Total	1130176	ND	0.00155	0.00155	mg/L	126593015
Lead, Total	1130176	ND	0.000244	0.001	mg/L	126593015
Nickel, Total	1130176	ND	0.00112	0.00112	mg/L	126593015
Silver, Total	1130176	ND	0.000226	0.001	mg/L	126593015
Thallium, Total	1130176	ND	0.000106	0.001	mg/L	126593015
Zinc, Total	1130176	ND	0.000875	0.001	mg/L	126593015

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	0.0521	0.05	mg/L	104	90.0 - 110	126593021
Aluminum, Total	0.0483	0.05	mg/L	96.6	90.0 - 110	126593027
Aluminum, Total	0.0482	0.05	mg/L	96.4	90.0 - 110	126593033
Barium, Total	0.0463	0.05	mg/L	92.6	90.0 - 110	126593027
Barium, Total	0.0471	0.05	mg/L	94.2	90.0 - 110	126593033
Beryllium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	126593027
Beryllium, Total	0.0498	0.05	mg/L	99.6	90.0 - 110	126593033
Cadmium, Total	0.0523	0.05	mg/L	105	90.0 - 110	126593021
Cadmium, Total	0.0485	0.05	mg/L	97.0	90.0 - 110	126593027
Cadmium, Total	0.0485	0.05	mg/L	97.0	90.0 - 110	126593033
Chromium, Total	0.0537	0.05	mg/L	107	90.0 - 110	126593021
Chromium, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	126593027
Chromium, Total	0.0493	0.05	mg/L	98.6	90.0 - 110	126593033
Copper, Total	0.0513	0.05	mg/L	103	90.0 - 110	126592984
Copper, Total	0.0507	0.05	mg/L	101	90.0 - 110	126592992
Copper, Total	0.053	0.05	mg/L	106	90.0 - 110	126593003
Copper, Total	0.0507	0.05	mg/L	101	90.0 - 110	126593014
Copper, Total	0.0545	0.05	mg/L	109	90.0 - 110	126593021
Copper, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	126593027
Copper, Total	0.0501	0.05	mg/L	100	90.0 - 110	126593033
Lead, Total	0.0505	0.05	mg/L	101	90.0 - 110	126592984
Lead, Total	0.0507	0.05	mg/L	101	90.0 - 110	126592992
Lead, Total	0.053	0.05	mg/L	106	90.0 - 110	126593003
Lead, Total	0.0508	0.05	mg/L	102	90.0 - 110	126593014
Lead, Total	0.0548	0.05	mg/L	110	90.0 - 110	126593021
Lead, Total	0.0508	0.05	mg/L	102	90.0 - 110	126593027
Lead, Total	0.051	0.05	mg/L	102	90.0 - 110	126593033
Nickel, Total	0.0469	0.05	mg/L	93.8	90.0 - 110	126593027
Nickel, Total	0.0466	0.05	mg/L	93.2	90.0 - 110	126593033
Silver, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	126593014
Silver, Total	0.0529	0.05	mg/L	106	90.0 - 110	126593021
Silver, Total	0.0487	0.05	mg/L	97.4	90.0 - 110	126593027
Silver, Total	0.0483	0.05	mg/L	96.6	90.0 - 110	126593033

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Thallium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	126593027
Thallium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	126593033
Zinc, Total	0.0537	0.05	mg/L	107	90.0 - 110	126593027
Zinc, Total	0.0544	0.05	mg/L	109	90.0 - 110	126593033

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	126592979
Barium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	126592979
Beryllium, Total	0.050	0.05	mg/L	100	90.0 - 110	126592979
Cadmium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	126592979
Chromium, Total	0.0505	0.05	mg/L	101	90.0 - 110	126592979
Copper, Total	0.0506	0.05	mg/L	101	90.0 - 110	126592979
Lead, Total	0.0507	0.05	mg/L	101	90.0 - 110	126592979
Nickel, Total	0.0504	0.05	mg/L	101	90.0 - 110	126592979
Silver, Total	0.0504	0.05	mg/L	101	90.0 - 110	126592979
Thallium, Total	0.0493	0.05	mg/L	98.6	90.0 - 110	126592979
Zinc, Total	0.0493	0.05	mg/L	98.6	90.0 - 110	126592979

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Aluminum, Total	1130176	0.482	0.486	0.500	85.0 - 115	96.4	97.2	mg/L	0.826	20.0
Barium, Total	1130176	0.482	0.516	0.500	85.0 - 115	96.4	103	mg/L	6.81	20.0
Beryllium, Total	1130176	0.202	0.216	0.200	85.0 - 115	101	108	mg/L	6.70	20.0
Cadmium, Total	1130176	0.246	0.265	0.250	85.0 - 115	98.4	106	mg/L	7.44	20.0
Chromium, Total	1130176	0.514	0.506	0.500	85.0 - 115	103	101	mg/L	1.57	20.0
Copper, Total	1130176	0.514	0.556	0.500	85.0 - 115	103	111	mg/L	7.85	20.0
Lead, Total	1130176	0.520	0.563	0.500	85.0 - 115	104	113	mg/L	7.94	20.0
Nickel, Total	1130176	0.482	0.523	0.500	85.0 - 115	96.4	105	mg/L	8.16	20.0
Silver, Total	1130176	0.0871	0.0924	0.100	85.0 - 115	87.1	92.4	mg/L	5.91	20.0
Thallium, Total	1130176	0.506	0.537	0.500	85.0 - 115	101	107	mg/L	5.94	20.0
Zinc, Total	1130176	0.471	0.514	0.500	85.0 - 115	94.2	103	mg/L	8.73	20.0

MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper, Total	0.00101	0.001	mg/L	101	25.0 - 175	126592980
Lead, Total	0.00102	0.001	mg/L	102	25.0 - 175	126592980

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Aluminum, Total	2319100	0.0676	0.488	0.0208	0.500	70.0 - 130	9.36 *	93.4	mg/L	164 *	20.0
Barium, Total	2319100	0.505	0.507	0.0289	0.500	70.0 - 130	95.2	95.6	mg/L	0.419	20.0
Beryllium, Total	2319100	0.202	0.200	0.000206	0.200	70.0 - 130	101	99.9	mg/L	0.996	20.0
Cadmium, Total	2319100	0.245	0.245	0.000377	0.250	70.0 - 130	97.8	97.8	mg/L	0	20.0
Chromium, Total	2319100	0.0518	0.483	0.00106	0.500	70.0 - 130	10.1 *	96.4	mg/L	162 *	20.0
Copper, Total	2319100	0.769	0.815	0.290	0.500	70.0 - 130	95.8	105	mg/L	9.16	20.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Lead, Total	2319100	0.520	0.510	0.000841	0.500	70.0 - 130	104	102	mg/L	1.94	20.0
Nickel, Total	2319100	0.482	0.487	0.00619	0.500	70.0 - 130	95.2	96.2	mg/L	1.05	20.0
Silver, Total	2319100	0.0855	0.0857	ND	0.100	70.0 - 130	85.5	85.7	mg/L	0.234	20.0
Thallium, Total	2319100	0.502	0.503	0.000436	0.500	70.0 - 130	100	101	mg/L	0.199	20.0
Zinc, Total	2319100	0.808	0.819	0.353	0.500	70.0 - 130	91.0	93.2	mg/L	2.39	20.0

Analytical Set

1130344

EPA 200.7 4.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Boron	1130176	ND	0.00103	0.008	mg/L	126594458
Phosphorus	1130176	ND	0.0353	0.040	mg/L	126594458

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	0.989	1.00	mg/L	98.9	90.0 - 110	126594449
Boron	0.993	1.00	mg/L	99.3	90.0 - 110	126594457
Boron	0.990	1.00	mg/L	99.0	90.0 - 110	126594465
Phosphorus	1.06	1.00	mg/L	106	90.0 - 110	126594449
Phosphorus	1.07	1.00	mg/L	107	90.0 - 110	126594457
Phosphorus	1.07	1.00	mg/L	107	90.0 - 110	126594465

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	10.2	10.0	mg/L	102	95.0 - 105	126594447
Phosphorus	25.1	25.0	mg/L	100	95.0 - 105	126594447

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Boron	1.00	1.00	mg/L	100	90.0 - 110	126594448
Phosphorus	1.04	1.00	mg/L	104	90.0 - 110	126594448

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Boron	1130176	0.931	0.933	1.00	85.0 - 115	93.1	93.3	mg/L	0.215	25.0
Phosphorus	1130176	4.00	3.99	4.00	85.0 - 115	100	99.8	mg/L	0.250	25.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Boron	2319100	1.44	1.48	0.490	1.00	75.0 - 125	95.0	99.0	mg/L	4.12	25.0
Phosphorus	2319100	11.0	11.4	7.25	4.00	75.0 - 125	93.8	104	mg/L	10.1	25.0

Analytical Set

1130500

EPA 245.7 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1130224	ND	1.20	5.00	ng/L	126598224

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CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Mercury, Total (low level)	27.3	25.0	ng/L	109	87.0 - 113	126598165
Mercury, Total (low level)	25.0	25.0	ng/L	100	87.0 - 113	126598180
Mercury, Total (low level)	26.6	25.0	ng/L	106	87.0 - 113	126598192
Mercury, Total (low level)	25.0	25.0	ng/L	100	87.0 - 113	126598205
Mercury, Total (low level)	24.8	25.0	ng/L	99.2	87.0 - 113	126598217
Mercury, Total (low level)	22.8	25.0	ng/L	91.2	87.0 - 113	126598229
Mercury, Total (low level)	23.6	25.0	ng/L	94.4	87.0 - 113	126598241
Mercury, Total (low level)	22.9	25.0	ng/L	91.6	87.0 - 113	126598249

ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Mercury, Total (low level)	26.4	25.0	ng/L	106	90.0 - 110	126598163

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Mercury, Total (low level)	1130224	25.2	23.6	25.0	76.0 - 115	101	94.4	ng/L	6.56	50.0

MSD

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Mercury, Total (low level)	2319306	14.7	14.0	ND	26.6	63.0 - 111	55.3 *	52.6 *	ng/L	4.88	18.0
Mercury, Total (low level)	2319713	12.6	12.7	ND	26.6	63.0 - 111	47.4 *	47.7 *	ng/L	0.791	18.0

Analytical Set

1130586

EPA 200.7 4.4

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Magnesium, Total	1130176	ND	0.00367	0.500	mg/L	126599637

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Magnesium, Total	25.0	25.0	mg/L	100	90.0 - 110	126599605
Magnesium, Total	25.0	25.0	mg/L	100	90.0 - 110	126599636
Magnesium, Total	24.9	25.0	mg/L	99.6	90.0 - 110	126599646
Magnesium, Total	24.9	25.0	mg/L	99.6	90.0 - 110	126599655
Magnesium, Total	24.7	25.0	mg/L	98.8	90.0 - 110	126599665
Magnesium, Total	24.7	25.0	mg/L	98.8	90.0 - 110	126599675
Magnesium, Total	24.7	25.0	mg/L	98.8	90.0 - 110	126599685
Magnesium, Total	24.6	25.0	mg/L	98.4	90.0 - 110	126599692

ICL

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Magnesium, Total	50.7	50.0	mg/L	101	95.0 - 105	126599599

ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Magnesium, Total	25.6	25.0	mg/L	102	90.0 - 110	126599603

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Magnesium, Total	1130176	4.90	4.79	5.00	85.0 - 115	98.0	95.8	mg/L	2.27	25.0

MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Magnesium, Total	0.508	0.500	mg/L	102	25.0 - 175	126599604

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Magnesium, Total	2319100	4.39	8.91	4.06	5.00	75.0 - 125	6.60 *	97.0	mg/L	175 *	25.0

Analytical Set

1130786

EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Antimony, Total	1130176	ND	0.000847	0.003	mg/L	126605034
Arsenic, Total	1130176	ND	0.000902	0.001	mg/L	126605034
Selenium, Total	1130176	ND	0.00294	0.005	mg/L	126605034

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Antimony, Total	0.0465	0.05	mg/L	93.0	90.0 - 110	126605032
Antimony, Total	0.0467	0.05	mg/L	93.4	90.0 - 110	126605042
Antimony, Total	0.0465	0.05	mg/L	93.0	90.0 - 110	126605048
Arsenic, Total	0.0472	0.05	mg/L	94.4	90.0 - 110	126605032
Arsenic, Total	0.0474	0.05	mg/L	94.8	90.0 - 110	126605042
Arsenic, Total	0.0476	0.05	mg/L	95.2	90.0 - 110	126605048
Arsenic, Total	0.0472	0.05	mg/L	94.4	90.0 - 110	126605058
Arsenic, Total	0.0482	0.05	mg/L	96.4	90.0 - 110	126605068
Selenium, Total	0.0498	0.05	mg/L	99.6	90.0 - 110	126605032
Selenium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	126605042
Selenium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	126605048

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Antimony, Total	0.0505	0.05	mg/L	101	90.0 - 110	126604982
Arsenic, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	126604982
Selenium, Total	0.050	0.05	mg/L	100	90.0 - 110	126604982

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Antimony, Total	1130176	0.512	0.505	0.500	85.0 - 115	102	101	mg/L	1.38	20.0
Arsenic, Total	1130176	0.467	0.455	0.500	85.0 - 115	93.4	91.0	mg/L	2.60	20.0
Selenium, Total	1130176	0.477	0.472	0.500	85.0 - 115	95.4	94.4	mg/L	1.05	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Antimony, Total	2319100	0.0537	0.512	0.00136	0.500	70.0 - 130	10.5 *	102	mg/L	163 *	20.0
Arsenic, Total	2319100	0.0485	0.453	ND	0.500	70.0 - 130	9.70 *	90.6	mg/L	161 *	20.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Selenium, Total	2319100	0.0482	0.461	ND	0.500	70.0 - 130	9.64 *	92.2	mg/L	162 *	20.0

Analytical Set

1133236

SM 3500-Cr B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexavalent Chromium	1133236	ND	0.550	3.00	ug/L	126652765
Hexavalent Chromium	1133236	ND	0.550	3.00	ug/L	126652774
Hexavalent Chromium	1133236	ND	0.550	3.00	ug/L	126652777

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexavalent Chromium	87.4	80.0	ug/L	109	90.0 - 110	126652766
Hexavalent Chromium	86.7	80.0	ug/L	108	90.0 - 110	126652775
Hexavalent Chromium	84.7	80.0	ug/L	106	90.0 - 110	126652778

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexavalent Chromium	1133236	87.9	87.9	80.0	85.0 - 115	110	110	ug/L	0	15.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Hexavalent Chromium	2324546	68.6	65.3	ND	80.0	70.0 - 130	85.8	81.6	ug/L	4.93	20.0

Analytical Set

1130399

EPA 624.1

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1130399	174	262	1.4	0 - 2.00	126595883
BFB Mass 174	1130399	95.0	18076	68.0	50.0 - 100	126595883
BFB Mass 175	1130399	174	1535	8.5	5.00 - 9.00	126595883
BFB Mass 176	1130399	174	17837	98.7	95.0 - 101	126595883
BFB Mass 177	1130399	176	1199	6.7	5.00 - 9.00	126595883
BFB Mass 50	1130399	95.0	6250	23.5	15.0 - 40.0	126595883
BFB Mass 75	1130399	95.0	14613	55.0	30.0 - 60.0	126595883
BFB Mass 95	1130399	95.0	26576	100.0	100 - 100	126595883
BFB Mass 96	1130399	95.0	1648	6.2	5.00 - 9.00	126595883

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Acrolein	1130399	ND	2.33	4.00	ug/L	126595887
Acrylonitrile	1130399	ND	0.998	1.00	ug/L	126595887

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1130399	LCS	151900	167200	83610	250800	126595885	1130399
1,4-DichlorobenzeneD4 (ISTD)	1130399	LCS Dup	152400	167200	83610	250800	126595886	1130399
1,4-DichlorobenzeneD4 (ISTD)	1130399	Blank	139700	167200	83610	250800	126595887	1130399

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
ChlorobenzeneD5 (ISTD)	1130399	LCS	274500	303800	151900	455600	126595885	1130399
ChlorobenzeneD5 (ISTD)	1130399	LCS Dup	285100	303800	151900	455600	126595886	1130399
ChlorobenzeneD5 (ISTD)	1130399	Blank	260900	303800	151900	455600	126595887	1130399
1,4-DichlorobenzeneD4 (ISTD)	2318366	MS	168500	167200	83610	250800	126595889	1130399
1,4-DichlorobenzeneD4 (ISTD)	2318366	MSD	172600	167200	83610	250800	126595890	1130399
ChlorobenzeneD5 (ISTD)	2318366	MS	308200	303800	151900	455600	126595889	1130399
ChlorobenzeneD5 (ISTD)	2318366	MSD	318300	303800	151900	455600	126595890	1130399
1,4-DichlorobenzeneD4 (ISTD)	2319341	Unknown	160000	167200	83610	250800	126595891	1130399
ChlorobenzeneD5 (ISTD)	2319341	Unknown	314800	303800	151900	455600	126595891	1130399

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1130399	LCS	11.97	11.97	11.91	12.03	126595885	1130399
1,4-DichlorobenzeneD4 (ISTD)	1130399	LCS Dup	11.97	11.97	11.91	12.03	126595886	1130399
1,4-DichlorobenzeneD4 (ISTD)	1130399	Blank	11.97	11.97	11.91	12.03	126595887	1130399
ChlorobenzeneD5 (ISTD)	1130399	LCS	9.597	9.597	9.537	9.657	126595885	1130399
ChlorobenzeneD5 (ISTD)	1130399	LCS Dup	9.597	9.597	9.537	9.657	126595886	1130399
ChlorobenzeneD5 (ISTD)	1130399	Blank	9.597	9.597	9.537	9.657	126595887	1130399
1,4-DichlorobenzeneD4 (ISTD)	2318366	MS	11.97	11.97	11.91	12.03	126595889	1130399
1,4-DichlorobenzeneD4 (ISTD)	2318366	MSD	11.97	11.97	11.91	12.03	126595890	1130399
ChlorobenzeneD5 (ISTD)	2318366	MS	9.597	9.597	9.537	9.657	126595889	1130399
ChlorobenzeneD5 (ISTD)	2318366	MSD	9.597	9.597	9.537	9.657	126595890	1130399
1,4-DichlorobenzeneD4 (ISTD)	2319341	Unknown	11.97	11.97	11.91	12.03	126595891	1130399
ChlorobenzeneD5 (ISTD)	2319341	Unknown	9.597	9.597	9.537	9.657	126595891	1130399

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Acrolein	1130399	36.5	34.7	40.0	60.0 - 140	91.2	86.8	ug/L	4.94	30.0
Acrylonitrile	1130399	47.6	46.9	40.0	60.0 - 140	119	117	ug/L	1.69	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Acrolein	2318366	77.4	62.8	ND	200	40.0 - 160	38.7 *	31.4 *	ug/L	20.8	60.0
Acrylonitrile	2318366	212	194	ND	200	40.0 - 160	106	97.0	ug/L	8.87	60.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1130399	LCS	23.2	20.0	ug/L	116	70.0 - 130	126595885
1,2-DCA-d4 (SURR)	1130399	LCS Dup	23.8	20.0	ug/L	119	70.0 - 130	126595886
1,2-DCA-d4 (SURR)	1130399	Blank	25.0	20.0	ug/L	125	70.0 - 130	126595887
Bromofluorobenzene (SURR)	1130399	LCS	20.4	20.0	ug/L	102	70.0 - 130	126595885
Bromofluorobenzene (SURR)	1130399	LCS Dup	21.0	20.0	ug/L	105	70.0 - 130	126595886
Bromofluorobenzene (SURR)	1130399	Blank	20.7	20.0	ug/L	104	70.0 - 130	126595887
Dibromofluoromethane (SURR)	1130399	LCS	21.1	20.0	ug/L	106	70.0 - 130	126595885
Dibromofluoromethane (SURR)	1130399	LCS Dup	21.1	20.0	ug/L	106	70.0 - 130	126595886
Dibromofluoromethane (SURR)	1130399	Blank	21.5	20.0	ug/L	108	70.0 - 130	126595887

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Surrogate								
Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
TolueneD8 (SURR)	1130399	LCS	20.0	20.0	ug/L	100	70.0 - 130	126595885
TolueneD8 (SURR)	1130399	LCS Dup	20.1	20.0	ug/L	100	70.0 - 130	126595886
TolueneD8 (SURR)	1130399	Blank	20.6	20.0	ug/L	103	70.0 - 130	126595887
1,2-DCA-d4 (SURR)	2318366	MS	20.1	20.0	ug/L	100	70.0 - 130	126595889
1,2-DCA-d4 (SURR)	2318366	MSD	20.0	20.0	ug/L	100	70.0 - 130	126595890
Bromofluorobenzene (SURR)	2318366	MS	19.6	20.0	ug/L	98.0	70.0 - 130	126595889
Bromofluorobenzene (SURR)	2318366	MSD	19.7	20.0	ug/L	98.5	70.0 - 130	126595890
Dibromofluoromethane (SURR)	2318366	MS	20.5	20.0	ug/L	102	70.0 - 130	126595889
Dibromofluoromethane (SURR)	2318366	MSD	19.7	20.0	ug/L	98.5	70.0 - 130	126595890
TolueneD8 (SURR)	2318366	MS	20.0	20.0	ug/L	100	70.0 - 130	126595889
TolueneD8 (SURR)	2318366	MSD	19.4	20.0	ug/L	97.0	70.0 - 130	126595890
1,2-DCA-d4 (SURR)	2319341	Unknown	19.5	20.0	ug/L	97.5	70.0 - 130	126595891
Bromofluorobenzene (SURR)	2319341	Unknown	19.5	20.0	ug/L	97.5	70.0 - 130	126595891
Dibromofluoromethane (SURR)	2319341	Unknown	19.5	20.0	ug/L	97.5	70.0 - 130	126595891
TolueneD8 (SURR)	2319341	Unknown	19.2	20.0	ug/L	96.0	70.0 - 130	126595891

Analytical Set

1130401

EPA 624.1

BFB						
Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1130401	174	262	1.4	0 - 2.00	126595908
BFB Mass 174	1130401	95.0	18076	68.0	50.0 - 100	126595908
BFB Mass 175	1130401	174	1535	8.5	5.00 - 9.00	126595908
BFB Mass 176	1130401	174	17837	98.7	95.0 - 101	126595908
BFB Mass 177	1130401	176	1199	6.7	5.00 - 9.00	126595908
BFB Mass 50	1130401	95.0	6250	23.5	15.0 - 40.0	126595908
BFB Mass 75	1130401	95.0	14613	55.0	30.0 - 60.0	126595908
BFB Mass 95	1130401	95.0	26576	100.0	100 - 100	126595908
BFB Mass 96	1130401	95.0	1648	6.2	5.00 - 9.00	126595908

Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,1,1-Trichloroethane	1130401	ND	0.531	1.00	ug/L	126595912
1,1,2-Trichloroethane	1130401	ND	0.563	1.00	ug/L	126595912
1,1-Dichloroethane	1130401	ND	0.593	1.00	ug/L	126595912
1,1-Dichloroethylene	1130401	ND	0.574	1.00	ug/L	126595912
1,2-Dibromoethane (EDB)	1130401	ND	0.562	1.00	ug/L	126595912
1,2-Dichloroethane	1130401	ND	0.590	1.00	ug/L	126595912
1,2-Dichloropropane	1130401	ND	0.615	1.00	ug/L	126595912
Benzene	1130401	ND	0.453	1.00	ug/L	126595912
Bromodichloromethane	1130401	ND	0.409	1.00	ug/L	126595912
Bromoform	1130401	ND	0.500	1.00	ug/L	126595912
Carbon Tetrachloride	1130401	ND	0.299	1.00	ug/L	126595912
Chlorobenzene	1130401	ND	0.558	1.00	ug/L	126595912
Chloroethane	1130401	ND	1.12	1.12	ug/L	126595912
Chloroform	1130401	ND	0.463	1.00	ug/L	126595912

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Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Chloromethane (Methyl Chloride)	1130401	ND	0.811	1.00	ug/L	126595912
cis-1,3-Dichloropropene	1130401	ND	0.660	1.00	ug/L	126595912
Dibromochloromethane	1130401	ND	0.311	1.00	ug/L	126595912
Dichloromethane	1130401	ND	1.02	1.02	ug/L	126595912
Ethylbenzene	1130401	ND	0.498	1.00	ug/L	126595912
m-Dichlorobenzene (1,3-DCB)	1130401	ND	0.619	1.00	ug/L	126595912
Methyl ethyl ketone (Butanone)	1130401	ND	0.742	1.00	ug/L	126595912
o-Dichlorobenzene (1,2-DCB)	1130401	ND	0.532	1.00	ug/L	126595912
p-Dichlorobenzene (1,4-DCB)	1130401	ND	0.837	1.00	ug/L	126595912
Tetrachloroethylene	1130401	ND	0.607	1.00	ug/L	126595912
Toluene	1130401	ND	0.655	1.00	ug/L	126595912
trans-1,2-Dichloroethylene	1130401	ND	0.701	1.00	ug/L	126595912
Trichloroethylene	1130401	ND	0.521	1.00	ug/L	126595912
Vinyl chloride	1130401	ND	0.702	1.00	ug/L	126595912

IS Areas

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>File</u>	<u>PrepSet</u>
1,4-DichlorobenzeneD4 (ISTD)	1130401	LCS	151900	167200	83610	250800	126595910	1130401
1,4-DichlorobenzeneD4 (ISTD)	1130401	LCS Dup	152400	167200	83610	250800	126595911	1130401
1,4-DichlorobenzeneD4 (ISTD)	1130401	Blank	139700	167200	83610	250800	126595912	1130401
ChlorobenzeneD5 (ISTD)	1130401	LCS	274500	303800	151900	455600	126595910	1130401
ChlorobenzeneD5 (ISTD)	1130401	LCS Dup	285100	303800	151900	455600	126595911	1130401
ChlorobenzeneD5 (ISTD)	1130401	Blank	260900	303800	151900	455600	126595912	1130401
1,4-DichlorobenzeneD4 (ISTD)	2318366	MS	168500	167200	83610	250800	126595914	1130401
1,4-DichlorobenzeneD4 (ISTD)	2318366	MSD	172600	167200	83610	250800	126595915	1130401
ChlorobenzeneD5 (ISTD)	2318366	MS	308200	303800	151900	455600	126595914	1130401
ChlorobenzeneD5 (ISTD)	2318366	MSD	318300	303800	151900	455600	126595915	1130401
1,4-DichlorobenzeneD4 (ISTD)	2319341	Unknown	159800	167200	83610	250800	126595916	1130401
ChlorobenzeneD5 (ISTD)	2319341	Unknown	314700	303800	151900	455600	126595916	1130401

IS RetTime

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>File</u>	<u>PrepSet</u>
1,4-DichlorobenzeneD4 (ISTD)	1130401	LCS	11.97	11.97	11.91	12.03	126595910	1130401
1,4-DichlorobenzeneD4 (ISTD)	1130401	LCS Dup	11.97	11.97	11.91	12.03	126595911	1130401
1,4-DichlorobenzeneD4 (ISTD)	1130401	Blank	11.97	11.97	11.91	12.03	126595912	1130401
ChlorobenzeneD5 (ISTD)	1130401	LCS	9.597	9.597	9.537	9.657	126595910	1130401
ChlorobenzeneD5 (ISTD)	1130401	LCS Dup	9.597	9.597	9.537	9.657	126595911	1130401
ChlorobenzeneD5 (ISTD)	1130401	Blank	9.597	9.597	9.537	9.657	126595912	1130401
1,4-DichlorobenzeneD4 (ISTD)	2318366	MS	11.97	11.97	11.91	12.03	126595914	1130401
1,4-DichlorobenzeneD4 (ISTD)	2318366	MSD	11.97	11.97	11.91	12.03	126595915	1130401
ChlorobenzeneD5 (ISTD)	2318366	MS	9.597	9.597	9.537	9.657	126595914	1130401
ChlorobenzeneD5 (ISTD)	2318366	MSD	9.597	9.597	9.537	9.657	126595915	1130401
1,4-DichlorobenzeneD4 (ISTD)	2319341	Unknown	11.97	11.97	11.91	12.03	126595916	1130401
ChlorobenzeneD5 (ISTD)	2319341	Unknown	9.597	9.597	9.537	9.657	126595916	1130401

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,1,1-Trichloroethane	1130401	20.8	19.1	20.0	70.0 - 130	104	95.5	ug/L	8.52	21.0
1,1,2,2-Tetrachloroethane	1130401	19.0	19.1	20.0	60.0 - 140	95.0	95.5	ug/L	0.525	36.0
1,1,2-Trichloroethane	1130401	20.4	19.4	20.0	70.0 - 130	102	97.0	ug/L	5.03	27.0
1,1-Dichloroethane	1130401	20.9	19.4	20.0	70.0 - 130	104	97.0	ug/L	6.97	24.0
1,1-Dichloroethylene	1130401	18.8	17.7	20.0	50.0 - 150	94.0	88.5	ug/L	6.03	40.0
1,2-Dibromoethane (EDB)	1130401	19.3	19.4	20.0	78.4 - 122	96.5	97.0	ug/L	0.517	30.0
1,2-Dichloroethane	1130401	23.4	22.3	20.0	70.0 - 130	117	112	ug/L	4.37	29.0
1,2-Dichloropropane	1130401	19.9	19.3	20.0	35.0 - 165	99.5	96.5	ug/L	3.06	69.0
2-Chloroethylvinyl ether	1130401	1.07	1.03	20.0	0.100 - 225	5.35	5.15	ug/L	3.81	130
Benzene	1130401	19.3	18.4	20.0	65.0 - 135	96.5	92.0	ug/L	4.77	33.0
Bromodichloromethane	1130401	20.0	19.4	20.0	65.0 - 135	100	97.0	ug/L	3.05	34.0
Bromoform	1130401	19.0	19.4	20.0	70.0 - 130	95.0	97.0	ug/L	2.08	25.0
Bromomethane (Methyl Bromi	1130401	22.0	20.4	20.0	15.0 - 185	110	102	ug/L	7.55	90.0
Carbon Tetrachloride	1130401	20.8	19.5	20.0	70.0 - 130	104	97.5	ug/L	6.45	26.0
Chlorobenzene	1130401	20.1	18.7	20.0	65.0 - 135	100	93.5	ug/L	6.72	29.0
Chloroethane	1130401	18.3	17.1	20.0	40.0 - 160	91.5	85.5	ug/L	6.78	47.0
Chloroform	1130401	20.4	19.3	20.0	70.0 - 135	102	96.5	ug/L	5.54	32.0
Chloromethane (Methyl Chloride)	1130401	20.8	19.5	20.0	0.100 - 205	104	97.5	ug/L	6.45	472
cis-1,3-Dichloropropene	1130401	18.7	18.0	20.0	25.0 - 175	93.5	90.0	ug/L	3.81	79.0
Dibromochloromethane	1130401	18.3	17.6	20.0	70.0 - 135	91.5	88.0	ug/L	3.90	30.0
Dichloromethane	1130401	19.1	18.1	20.0	60.0 - 140	95.5	90.5	ug/L	5.38	192
Ethylbenzene	1130401	21.1	19.9	20.0	60.0 - 140	106	99.5	ug/L	6.33	34.0
m-Dichlorobenzene (1,3-DCB)	1130401	20.2	19.8	20.0	70.0 - 130	101	99.0	ug/L	2.00	24.0
Methyl ethyl ketone (Butanone)	1130401	22.9	23.2	20.0	62.3 - 136	114	116	ug/L	1.74	30.0
o-Dichlorobenzene (1,2-DCB)	1130401	19.8	19.5	20.0	65.0 - 135	99.0	97.5	ug/L	1.53	31.0
p-Dichlorobenzene (1,4-DCB)	1130401	19.4	19.4	20.0	65.0 - 135	97.0	97.0	ug/L	0	31.0
Tetrachloroethylene	1130401	18.8	18.2	20.0	70.0 - 130	94.0	91.0	ug/L	3.24	23.0
Toluene	1130401	20.7	19.6	20.0	70.0 - 130	104	98.0	ug/L	5.94	22.0
trans-1,2-Dichloroethylene	1130401	19.1	17.7	20.0	70.0 - 130	95.5	88.5	ug/L	7.61	27.0
Trichloroethylene	1130401	19.1	17.9	20.0	65.0 - 135	95.5	89.5	ug/L	6.49	29.0
Vinyl chloride	1130401	22.9	21.3	20.0	5.00 - 195	114	106	ug/L	7.27	100

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
1,1,1-Trichloroethane	2318366	87.1	86.6	ND	100	52.0 - 162	87.1	86.6	ug/L	0.576	36.0
1,1,2,2-Tetrachloroethane	2318366	89.4	84.7	ND	100	46.0 - 157	89.4	84.7	ug/L	5.40	61.0
1,1,2-Trichloroethane	2318366	92.8	88.4	ND	100	52.0 - 150	92.8	88.4	ug/L	4.86	45.0
1,1-Dichloroethane	2318366	88.0	86.0	ND	100	59.0 - 155	88.0	86.0	ug/L	2.30	40.0
1,1-Dichloroethylene	2318366	91.2	88.3	ND	100	0.100 - 234	91.2	88.3	ug/L	3.23	32.0
1,2-Dibromoethane (EDB)	2318366	93.2	88.2	ND	100	49.3 - 120	93.2	88.2	ug/L	5.51	30.0
1,2-Dichloroethane	2318366	95.6	93.8	ND	100	49.0 - 155	95.6	93.8	ug/L	1.90	49.0
1,2-Dichloropropane	2318366	86.6	83.0	ND	100	0.100 - 210	86.6	83.0	ug/L	4.25	55.0
2-Chloroethylvinyl ether	2318366	4.50	4.00	ND	100	0.100 - 305	4.50	4.00	ug/L	11.8	71.0
Benzene	2318366	88.5	85.8	ND	100	37.0 - 151	88.5	85.8	ug/L	3.10	61.0
Bromodichloromethane	2318366	92.3	89.0	ND	100	35.0 - 155	92.3	89.0	ug/L	3.64	56.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Bromoform	2318366	85.1	81.9	ND	100	45.0 - 169	85.1	81.9	ug/L	3.83	42.0
Bromomethane (Methyl Bromi	2318366	83.8	80.2	ND	100	0.100 - 242	83.8	80.2	ug/L	4.39	61.0
Carbon Tetrachloride	2318366	88.4	85.2	ND	100	70.0 - 140	88.4	85.2	ug/L	3.69	41.0
Chlorobenzene	2318366	96.6	92.8	ND	100	37.0 - 160	96.6	92.8	ug/L	4.01	53.0
Chloroethane	2318366	72.6	70.5	ND	100	14.0 - 230	72.6	70.5	ug/L	2.94	78.0
Chloroform	2318366	105	100	ND	100	51.0 - 138	105	100	ug/L	4.88	54.0
Chloromethane (Methyl Chloride)	2318366	79.4	80.6	ND	100	0.100 - 273	79.4	80.6	ug/L	1.50	60.0
cis-1,3-Dichloropropene	2318366	80.8	77.9	ND	100	0.100 - 227	80.8	77.9	ug/L	3.65	58.0
Dibromochloromethane	2318366	84.4	79.2	ND	100	53.0 - 149	84.4	79.2	ug/L	6.36	50.0
Dichloromethane	2318366	89.2	86.2	ND	100	0.100 - 221	89.2	86.2	ug/L	3.42	28.0
Ethylbenzene	2318366	96.2	92.9	ND	100	37.0 - 162	96.2	92.9	ug/L	3.49	63.0
m-Dichlorobenzene (1,3-DCB)	2318366	95.4	91.6	ND	100	59.0 - 156	95.4	91.6	ug/L	4.06	43.0
Methyl ethyl ketone (Butanone)	2318366	103	101	ND	100	0.100 - 211	103	101	ug/L	1.96	30.0
o-Dichlorobenzene (1,2-DCB)	2318366	94.8	90.3	ND	100	18.0 - 190	94.8	90.3	ug/L	4.86	57.0
p-Dichlorobenzene (1,4-DCB)	2318366	94.6	92.8	ND	100	18.0 - 190	94.6	92.8	ug/L	1.92	57.0
Tetrachloroethylene	2318366	89.4	87.7	ND	100	64.0 - 148	89.4	87.7	ug/L	1.92	39.0
Toluene	2318366	96.2	94.0	ND	100	47.0 - 150	96.2	94.0	ug/L	2.31	41.0
trans-1,2-Dichloroethylene	2318366	89.4	88.4	ND	100	54.0 - 156	89.4	88.4	ug/L	1.12	45.0
Trichloroethylene	2318366	87.4	83.0	ND	100	70.0 - 157	87.4	83.0	ug/L	5.16	48.0
Vinyl chloride	2318366	90.4	92.0	ND	100	0.100 - 251	90.4	92.0	ug/L	1.75	66.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURRE)	1130401	LCS	23.2	20.0	ug/L	116	70.0 - 130	126595910
1,2-DCA-d4 (SURRE)	1130401	LCS Dup	23.8	20.0	ug/L	119	70.0 - 130	126595911
1,2-DCA-d4 (SURRE)	1130401	Blank	25.0	20.0	ug/L	125	70.0 - 130	126595912
Bromofluorobenzene (SURRE)	1130401	LCS	20.4	20.0	ug/L	102	70.0 - 130	126595910
Bromofluorobenzene (SURRE)	1130401	LCS Dup	21.0	20.0	ug/L	105	70.0 - 130	126595911
Bromofluorobenzene (SURRE)	1130401	Blank	20.7	20.0	ug/L	104	70.0 - 130	126595912
Dibromofluoromethane (SURRE)	1130401	LCS	21.1	20.0	ug/L	106	70.0 - 130	126595910
Dibromofluoromethane (SURRE)	1130401	LCS Dup	21.1	20.0	ug/L	106	70.0 - 130	126595911
Dibromofluoromethane (SURRE)	1130401	Blank	21.5	20.0	ug/L	108	70.0 - 130	126595912
TolueneD8 (SURRE)	1130401	LCS	20.0	20.0	ug/L	100	70.0 - 130	126595910
TolueneD8 (SURRE)	1130401	LCS Dup	20.1	20.0	ug/L	100	70.0 - 130	126595911
TolueneD8 (SURRE)	1130401	Blank	20.6	20.0	ug/L	103	70.0 - 130	126595912
1,2-DCA-d4 (SURRE)	2318366	MS	20.1	20.0	ug/L	100	70.0 - 130	126595914
1,2-DCA-d4 (SURRE)	2318366	MSD	20.0	20.0	ug/L	100	70.0 - 130	126595915
Bromofluorobenzene (SURRE)	2318366	MS	19.6	20.0	ug/L	98.0	70.0 - 130	126595914
Bromofluorobenzene (SURRE)	2318366	MSD	19.7	20.0	ug/L	98.5	70.0 - 130	126595915
Dibromofluoromethane (SURRE)	2318366	MS	20.5	20.0	ug/L	102	70.0 - 130	126595914
Dibromofluoromethane (SURRE)	2318366	MSD	19.7	20.0	ug/L	98.5	70.0 - 130	126595915
TolueneD8 (SURRE)	2318366	MS	20.0	20.0	ug/L	100	70.0 - 130	126595914
TolueneD8 (SURRE)	2318366	MSD	19.4	20.0	ug/L	97.0	70.0 - 130	126595915
1,2-DCA-d4 (SURRE)	2319341	Unknown	20.8	20.0	ug/L	104	70.0 - 130	126595916
Bromofluorobenzene (SURRE)	2319341	Unknown	19.9	20.0	ug/L	99.5	70.0 - 130	126595916

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Surrogate								
Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Dibromofluoromethane (SURRE)	2319341	Unknown	19.8	20.0	ug/L	99.0	70.0 - 130	126595916
TolueneD8 (SURRE)	2319341	Unknown	19.4	20.0	ug/L	97.0	70.0 - 130	126595916

Analytical Set

1130848

EPA 632

Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1130476	ND	66.1	2500	ug/L	126606525
Diuron	1130476	282	44.4	45.0	ug/L	126606525

CCV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	1060	1000	ug/L	106	70.0 - 130	126606524
Carbaryl (Sevin)	1110	1000	ug/L	111	70.0 - 130	126606528
Carbaryl (Sevin)	1060	1000	ug/L	106	70.0 - 130	126606531
Carbaryl (Sevin)	1140	1000	ug/L	114	70.0 - 130	126606535
Carbaryl (Sevin)	1170	1000	ug/L	117	70.0 - 130	126606539
Diuron	1060	1000	ug/L	106	70.0 - 130	126606524
Diuron	1070	1000	ug/L	107	70.0 - 130	126606528
Diuron	1040	1000	ug/L	104	70.0 - 130	126606531
Diuron	1110	1000	ug/L	111	70.0 - 130	126606535
Diuron	1130	1000	ug/L	113	70.0 - 130	126606539

LCS Dup										
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1130476	1150	851	1000	17.1 - 131	115	85.1	ug/L	29.9	30.0
Diuron	1130476	996	152	1000	0.100 - 138	99.6	15.2	ug/L	147 *	30.0

Analytical Set

1131079

EPA 604.1

Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1130472	ND	0.890	2.50	ug/L	126611168

CCV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	5610	5000	ug/L	112	70.0 - 130	126611167
Hexachlorophene	5590	5000	ug/L	112	70.0 - 130	126611171
Hexachlorophene	5550	5000	ug/L	111	70.0 - 130	126611175
Hexachlorophene	5610	5000	ug/L	112	70.0 - 130	126611178
Hexachlorophene	5530	5000	ug/L	111	70.0 - 130	126611181

LCS Dup										
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1130472	38.4	41.1	50.0	25.5 - 145	76.8	82.2	ug/L	6.79	50.0

Analytical Set

1131094

EPA 615

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Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1130640	ND	0.159	0.500	ug/L	126611391
2,4,5-TP (Silvex)	1130640	ND	0.0893	0.300	ug/L	126611391

CCV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	139	150	ug/L	92.8	80.0 - 115	126611369
2,4 Dichlorophenoxyacetic acid	102	150	ug/L	67.9	80.0 - 115 *	126611383
2,4 Dichlorophenoxyacetic acid	110	150	ug/L	73.3	80.0 - 115 *	126611390
2,4 Dichlorophenoxyacetic acid	123	150	ug/L	82.3	80.0 - 115	126611404
2,4,5-TP (Silvex)	144	150	ug/L	96.1	80.0 - 115	126611369
2,4,5-TP (Silvex)	133	150	ug/L	88.6	80.0 - 115	126611383
2,4,5-TP (Silvex)	140	150	ug/L	93.3	80.0 - 115	126611390
2,4,5-TP (Silvex)	143	150	ug/L	95.2	80.0 - 115	126611404

LCS Dup										
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1130640	0.547	0.733	1.00	0.100 - 319	54.7	73.3	ug/L	29.1	30.0
2,4,5-TP (Silvex)	1130640	0.592	0.827	1.00	0.100 - 244	59.2	82.7	ug/L	33.1 *	30.0

Surrogate								
Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	135	200	ug/L	67.5	0.100 - 313	126611369
2,4-Dichlorophenylacetic Acid		CCV	105	200	ug/L	52.5	0.100 - 313	126611383
2,4-Dichlorophenylacetic Acid		CCV	117	200	ug/L	58.5	0.100 - 313	126611390
2,4-Dichlorophenylacetic Acid		CCV	132	200	ug/L	66.0	0.100 - 313	126611404
2,4-Dichlorophenylacetic Acid	1130640	Blank	99.4	200	ug/L	49.7	0.100 - 313	126611391
2,4-Dichlorophenylacetic Acid	1130640	LCS	92.1	200	ug/L	46.0	0.100 - 313	126611392
2,4-Dichlorophenylacetic Acid	1130640	LCS Dup	97.7	200	ug/L	48.8	0.100 - 313	126611393
2,4-Dichlorophenylacetic Acid	2319341	Unknown	1.13	2.16	ug/L	52.3	0.100 - 313	126611403

Analytical Set 1131492

EPA 608.3

Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1130491	ND	0.731	1.00	ug/L	126619490
4,4-DDE	1130491	ND	0.361	1.00	ug/L	126619490
4,4-DDT	1130491	ND	0.862	1.00	ug/L	126619490
Aldrin	1130491	ND	0.260	1.00	ug/L	126619490
Alpha-BHC(hexachlorocyclohexane)	1130491	ND	0.280	1.00	ug/L	126619490
Beta-BHC(hexachlorocyclohexane)	1130491	ND	0.579	1.00	ug/L	126619490
Delta-BHC(hexachlorocyclohexane)	1130491	ND	0.898	1.00	ug/L	126619490
Dieldrin	1130491	ND	0.162	1.00	ug/L	126619490
Endosulfan I (alpha)	1130491	ND	0.679	1.00	ug/L	126619490
Endosulfan II (beta)	1130491	ND	0.356	1.00	ug/L	126619490
Endosulfan sulfate	1130491	ND	0.588	1.00	ug/L	126619490
Endrin	1130491	ND	0.538	1.00	ug/L	126619490
Endrin aldehyde	1130491	ND	0.699	1.00	ug/L	126619490

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<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Gamma-BHC(Lindane)	1130491	ND	0.385	1.00	ug/L	126619490
Heptachlor	1130491	ND	0.207	1.00	ug/L	126619490
Heptachlor epoxide	1130491	ND	0.660	1.00	ug/L	126619490
Kelthane (Dicofol)	1130491	ND	0.0208	0.100	ug/L	126619490
Methoxychlor	1130491	ND	0.898	1.00	ug/L	126619490
Mirex	1130491	ND	0.00889	0.015	ug/L	126619490
Toxaphene	1130491	ND	0.169	0.200	ug/L	126619490

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
4,4-DDD	51.1	50.0	ug/L	102	75.0 - 125	126619489
4,4-DDD	55.0	50.0	ug/L	110	75.0 - 125	126619494
4,4-DDE	50.1	50.0	ug/L	100	75.0 - 125	126619489
4,4-DDE	51.4	50.0	ug/L	103	75.0 - 125	126619494
4,4-DDT	50.2	50.0	ug/L	100	75.0 - 125	126619489
4,4-DDT	46.7	50.0	ug/L	93.4	75.0 - 125	126619494
Aldrin	48.7	50.0	ug/L	97.4	75.0 - 125	126619489
Aldrin	49.7	50.0	ug/L	99.4	75.0 - 125	126619494
Alpha-BHC(hexachlorocyclohexane)	49.0	50.0	ug/L	98.0	75.0 - 125	126619489
Alpha-BHC(hexachlorocyclohexane)	48.7	50.0	ug/L	97.4	75.0 - 125	126619494
Beta-BHC(hexachlorocyclohexane)	47.0	50.0	ug/L	94.0	75.0 - 125	126619489
Beta-BHC(hexachlorocyclohexane)	47.2	50.0	ug/L	94.4	75.0 - 125	126619494
Delta-BHC(hexachlorocyclohexane)	49.1	50.0	ug/L	98.2	75.0 - 125	126619489
Delta-BHC(hexachlorocyclohexane)	49.3	50.0	ug/L	98.6	75.0 - 125	126619494
Dieldrin	49.6	50.0	ug/L	99.2	75.0 - 125	126619489
Dieldrin	50.8	50.0	ug/L	102	75.0 - 125	126619494
Endosulfan I (alpha)	48.0	50.0	ug/L	96.0	75.0 - 125	126619489
Endosulfan I (alpha)	49.7	50.0	ug/L	99.4	75.0 - 125	126619494
Endosulfan II (beta)	50.6	50.0	ug/L	101	75.0 - 125	126619489
Endosulfan II (beta)	52.8	50.0	ug/L	106	75.0 - 125	126619494
Endosulfan sulfate	45.3	50.0	ug/L	90.6	75.0 - 125	126619489
Endosulfan sulfate	58.1	50.0	ug/L	116	75.0 - 125	126619494
Endrin	50.8	50.0	ug/L	102	75.0 - 125	126619489
Endrin	53.0	50.0	ug/L	106	75.0 - 125	126619494
Endrin aldehyde	49.3	50.0	ug/L	98.6	75.0 - 125	126619489
Endrin aldehyde	49.9	50.0	ug/L	99.8	75.0 - 125	126619494
Gamma-BHC(Lindane)	47.3	50.0	ug/L	94.6	75.0 - 125	126619489
Gamma-BHC(Lindane)	47.3	50.0	ug/L	94.6	75.0 - 125	126619494
Heptachlor	49.3	50.0	ug/L	98.6	75.0 - 125	126619489
Heptachlor	53.2	50.0	ug/L	106	75.0 - 125	126619494
Heptachlor epoxide	47.5	50.0	ug/L	95.0	75.0 - 125	126619489
Heptachlor epoxide	48.2	50.0	ug/L	96.4	75.0 - 125	126619494
Kelthane (Dicofol)	100	100	ug/L	100	75.0 - 125	126619489
Kelthane (Dicofol)	99.8	100	ug/L	99.8	75.0 - 125	126619494
Methoxychlor	50.8	50.0	ug/L	102	75.0 - 125	126619489

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Methoxychlor	51.0	50.0	ug/L	102	75.0 - 125	126619494
Mirex	51.5	50.0	ug/L	103	75.0 - 125	126619489
Mirex	53.0	50.0	ug/L	106	75.0 - 125	126619494

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1130491	65.2	63.7	100	31.0 - 141	65.2	63.7	ug/L	2.33	39.0
4,4-DDE	1130491	59.2	67.1	100	30.0 - 145	59.2	67.1	ug/L	12.5	35.0
4,4-DDT	1130491	59.6	64.7	100	25.0 - 160	59.6	64.7	ug/L	8.21	42.0
Aldrin	1130491	45.7	53.0	100	42.0 - 140	45.7	53.0	ug/L	14.8	35.0
Alpha-BHC(hexachlorocyclohexane)	1130491	62.4	62.8	100	37.0 - 140	62.4	62.8	ug/L	0.639	36.0
Beta-BHC(hexachlorocyclohexane)	1130491	62.0	62.5	100	17.0 - 147	62.0	62.5	ug/L	0.803	44.0
Delta-BHC(hexachlorocyclohexane)	1130491	67.4	67.8	100	19.0 - 140	67.4	67.8	ug/L	0.592	52.0
Dieldrin	1130491	64.7	67.3	100	36.0 - 146	64.7	67.3	ug/L	3.94	49.0
Endosulfan I (alpha)	1130491	54.5	55.8	100	45.0 - 153	54.5	55.8	ug/L	2.36	28.0
Endosulfan II (beta)	1130491	62.5	61.9	100	0.100 - 202	62.5	61.9	ug/L	0.965	53.0
Endosulfan sulfate	1130491	54.0	55.6	100	26.0 - 144	54.0	55.6	ug/L	2.92	38.0
Endrin	1130491	66.9	69.8	100	30.0 - 147	66.9	69.8	ug/L	4.24	48.0
Endrin aldehyde	1130491	68.4	69.2	100	37.6 - 158	68.4	69.2	ug/L	1.16	30.0
Gamma-BHC(Lindane)	1130491	58.9	58.9	100	32.0 - 140	58.9	58.9	ug/L	0	39.0
Heptachlor	1130491	49.0	55.0	100	34.0 - 140	49.0	55.0	ug/L	11.5	43.0
Heptachlor epoxide	1130491	59.6	62.1	100	37.0 - 142	59.6	62.1	ug/L	4.11	26.0
Kelthane (Dicofol)	1130491	0.907	0.925	1.00	70.0 - 130	90.7	92.5	ug/L	1.97	30.0
Methoxychlor	1130491	61.1	65.7	100	33.1 - 137	61.1	65.7	ug/L	7.26	30.0
Mirex	1130491	0.567	0.628	1.00	70.0 - 130	56.7 *	62.8 *	ug/L	10.2	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	625249	CCV	51.1	100	ug/L	51.1	0.100 - 144	126619489
Decachlorobiphenyl	625249	CCV	53.0	100	ug/L	53.0	0.100 - 144	126619494
Tetrachloro-m-Xylene (Surr)	625249	CCV	45.0	100	ug/L	45.0	0.100 - 107	126619489
Tetrachloro-m-Xylene (Surr)	625249	CCV	44.2	100	ug/L	44.2	0.100 - 107	126619494
Decachlorobiphenyl	1130491	Blank	72.0	100	ug/L	72.0	0.100 - 144	126619490
Decachlorobiphenyl	1130491	LCS	64.4	100	ug/L	64.4	0.100 - 144	126619491
Decachlorobiphenyl	1130491	LCS Dup	64.2	100	ug/L	64.2	0.100 - 144	126619492
Tetrachloro-m-Xylene (Surr)	1130491	Blank	38.4	100	ug/L	38.4	0.100 - 107	126619490
Tetrachloro-m-Xylene (Surr)	1130491	LCS	35.6	100	ug/L	35.6	0.100 - 107	126619491
Tetrachloro-m-Xylene (Surr)	1130491	LCS Dup	38.6	100	ug/L	38.6	0.100 - 107	126619492
Decachlorobiphenyl	2319341	Unknown	0.033	0.099	ug/L	33.3	0.100 - 144	126619493
Tetrachloro-m-Xylene (Surr)	2319341	Unknown	0.0371	0.099	ug/L	37.5	0.100 - 107	126619493

Analytical Set

1131638

EPA 625.1

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1130834	ND	0.517	1.00	ug/L	126622217

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
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Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4-Trichlorobenzene	1130834	ND	0.720	1.00	ug/L	126622217
1,2-DPH (as azobenzene)	1130834	ND	0.695	1.00	ug/L	126622217
2,4,5-Trichlorophenol	1130834	ND	0.734	1.00	ug/L	126622217
2,4,6-Trichlorophenol	1130834	ND	0.704	1.00	ug/L	126622217
2,4-Dichlorophenol	1130834	ND	0.567	1.00	ug/L	126622217
2,4-Dimethylphenol	1130834	ND	2.32	2.40	ug/L	126622217
2,4-Dinitrophenol	1130834	ND	8.07	9.00	ug/L	126622217
2,4-Dinitrotoluene	1130834	ND	3.35	3.50	ug/L	126622217
2,6-Dinitrotoluene	1130834	ND	0.675	1.00	ug/L	126622217
2-Chloronaphthalene	1130834	ND	0.333	1.00	ug/L	126622217
2-Chlorophenol	1130834	ND	0.367	1.00	ug/L	126622217
2-Methylphenol (o-Cresol)	1130834	ND	5.13	5.20	ug/L	126622217
2-Nitrophenol	1130834	ND	0.495	1.00	ug/L	126622217
3&4-Methylphenol (m&p-Cresol)	1130834	ND	6.15	6.20	ug/L	126622217
3,3'-Dichlorobenzidine	1130834	ND	4.79	5.00	ug/L	126622217
4,6-Dinitro-2-methylphenol	1130834	ND	7.88	8.00	ug/L	126622217
4-Bromophenyl phenyl ether	1130834	ND	0.311	1.00	ug/L	126622217
4-Chlorophenyl phenyl ethe	1130834	ND	0.281	1.00	ug/L	126622217
4-Nitrophenol	1130834	ND	0.932	1.00	ug/L	126622217
Acenaphthene	1130834	ND	0.139	1.00	ug/L	126622217
Acenaphthylene	1130834	ND	0.202	1.00	ug/L	126622217
Aniline	1130834	ND	0.367	1.00	ug/L	126622217
Anthracene	1130834	ND	0.538	1.00	ug/L	126622217
Benzidine	1130834	ND	19.9	20.0	ug/L	126622217
Benzo(a)anthracene	1130834	ND	0.627	1.00	ug/L	126622217
Benzo(a)pyrene	1130834	ND	0.478	1.00	ug/L	126622217
Benzo(b)fluoranthene	1130834	ND	0.517	1.00	ug/L	126622217
Benzo(ghi)perylene	1130834	ND	0.750	1.00	ug/L	126622217
Benzo(k)fluoranthene	1130834	ND	0.763	1.00	ug/L	126622217
Benzyl Butyl phthalate	1130834	ND	0.696	7.50	ug/L	126622217
Bis(2-chloroethoxy)methane	1130834	ND	0.312	1.00	ug/L	126622217
Bis(2-chloroethyl)ether	1130834	ND	0.434	1.00	ug/L	126622217
Bis(2-chloroisopropyl)ether	1130834	ND	0.448	1.00	ug/L	126622217
Bis(2-ethylhexyl)phthalate	1130834	ND	1.63	7.50	ug/L	126622217
Chrysene (Benzo(a)phenanthrene)	1130834	ND	0.575	1.00	ug/L	126622217
Dibenz(a,h)anthracene	1130834	ND	0.872	1.00	ug/L	126622217
Diethyl phthalate	1130834	ND	0.721	5.70	ug/L	126622217
Dimethyl phthalate	1130834	ND	0.497	4.80	ug/L	126622217
Di-n-butylphthalate	1130834	ND	0.834	7.50	ug/L	126622217
Di-n-octylphthalate	1130834	ND	0.782	1.00	ug/L	126622217
Fluoranthene(Benzo(j,k)fluorene)	1130834	ND	0.772	1.00	ug/L	126622217
Fluorene	1130834	ND	0.512	1.00	ug/L	126622217
Hexachlorobenzene	1130834	ND	0.187	1.00	ug/L	126622217
Hexachlorobutadiene	1130834	ND	0.618	1.00	ug/L	126622217
Hexachlorocyclopentadiene	1130834	ND	8.69	9.00	ug/L	126622217

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City of Bastrop
Curtis Hancock
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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachloroethane	1130834	ND	0.789	1.00	ug/L	126622217
Indeno(1,2,3-cd)pyrene	1130834	ND	0.793	1.00	ug/L	126622217
Isophorone	1130834	ND	0.468	1.00	ug/L	126622217
Naphthalene	1130834	ND	0.387	1.00	ug/L	126622217
Nitrobenzene	1130834	ND	0.390	1.00	ug/L	126622217
n-Nitrosodiethylamine	1130834	ND	0.282	1.00	ug/L	126622217
N-Nitrosodimethylamine	1130834	ND	6.64	7.00	ug/L	126622217
n-Nitroso-di-n-butylamine	1130834	ND	0.403	1.00	ug/L	126622217
N-Nitrosodi-n-propylamine	1130834	ND	0.777	1.00	ug/L	126622217
N-Nitrosodiphenylamine (as DPA	1130834	ND	0.427	1.00	ug/L	126622217
p-Chloro-m-Cresol (4-Chloro-3-me	1130834	ND	2.35	2.40	ug/L	126622217
Pentachlorobenzene	1130834	ND	0.420	1.00	ug/L	126622217
Pentachlorophenol	1130834	ND	0.129	1.00	ug/L	126622217
Phenanthrene	1130834	ND	0.624	1.00	ug/L	126622217
Phenol	1130834	ND	1.50	1.50	ug/L	126622217
Pyrene	1130834	ND	0.587	1.00	ug/L	126622217
Pyridine	1130834	ND	5.33	5.40	ug/L	126622217

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
1,2,4,5-Tetrachlorobenzene	48900	50000	ug/L	97.8	60.0 - 140	126622216
1,2,4-Trichlorobenzene	48300	50000	ug/L	96.6	61.0 - 130	126622216
1,2-DPH (as azobenzene)	47700	50000	ug/L	95.4	60.0 - 140	126622216
2,4,5-Trichlorophenol	48600	50000	ug/L	97.2	69.0 - 130	126622216
2,4,6-Trichlorophenol	48700	50000	ug/L	97.4	69.0 - 130	126622216
2,4-Dichlorophenol	47600	50000	ug/L	95.2	64.0 - 130	126622216
2,4-Dimethylphenol	44700	50000	ug/L	89.4	58.0 - 130	126622216
2,4-Dinitrophenol	41800	50000	ug/L	83.6	39.0 - 173	126622216
2,4-Dinitrotoluene	56400	50000	ug/L	113	53.0 - 130	126622216
2,6-Dinitrotoluene	52500	50000	ug/L	105	68.0 - 137	126622216
2-Chloronaphthalene	46200	50000	ug/L	92.4	70.0 - 130	126622216
2-Chlorophenol	49400	50000	ug/L	98.8	55.0 - 130	126622216
2-Methylphenol (o-Cresol)	46400	50000	ug/L	92.8	60.0 - 140	126622216
2-Nitrophenol	47400	50000	ug/L	94.8	61.0 - 163	126622216
3&4-Methylphenol (m&p-Cresol)	49200	50000	ug/L	98.4	60.0 - 140	126622216
3,3'-Dichlorobenzidine	51700	50000	ug/L	103	18.0 - 213	126622216
4,6-Dinitro-2-methylphenol	50600	50000	ug/L	101	56.0 - 130	126622216
4-Bromophenyl phenyl ether	51800	50000	ug/L	104	70.0 - 130	126622216
4-Chlorophenyl phenyl ethe	49800	50000	ug/L	99.6	57.0 - 145	126622216
4-Nitrophenol	39300	50000	ug/L	78.6	35.0 - 135	126622216
Acenaphthene	51300	50000	ug/L	103	70.0 - 130	126622216
Acenaphthylene	51000	50000	ug/L	102	60.0 - 130	126622216
Aniline	45500	50000	ug/L	91.0	60.0 - 140	126622216
Anthracene	52900	50000	ug/L	106	58.0 - 130	126622216
Benzidine	30600	50000	ug/L	61.2	20.0 - 180	126622216

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Curtis Hancock
1311 Chestnut St.
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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Benzo(a)anthracene	60800	50000	ug/L	122	42.0 - 133	126622216
Benzo(a)pyrene	53200	50000	ug/L	106	32.0 - 148	126622216
Benzo(b)fluoranthene	49800	50000	ug/L	99.6	42.0 - 140	126622216
Benzo(ghi)perylene	47800	50000	ug/L	95.6	13.0 - 195	126622216
Benzo(k)fluoranthene	59300	50000	ug/L	119	25.0 - 146	126622216
Benzyl Butyl phthalate	69300	50000	ug/L	139	43.0 - 140	126622216
Bis(2-chloroethoxy)methane	49000	50000	ug/L	98.0	52.0 - 164	126622216
Bis(2-chloroethyl)ether	48300	50000	ug/L	96.6	52.0 - 130	126622216
Bis(2-chloroisopropyl)ether	51700	50000	ug/L	103	63.0 - 139	126622216
Bis(2-ethylhexyl)phthalate	71700	50000	ug/L	143	43.0 - 137 *	126622216
Chrysene (Benzo(a)phenanthrene)	61300	50000	ug/L	123	44.0 - 140	126622216
Dibenz(a,h)anthracene	44400	50000	ug/L	88.8	13.0 - 200	126622216
Diethyl phthalate	48500	50000	ug/L	97.0	47.0 - 130	126622216
Dimethyl phthalate	51000	50000	ug/L	102	50.0 - 130	126622216
Di-n-butylphthalate	52300	50000	ug/L	105	52.0 - 130	126622216
Di-n-octylphthalate	67100	50000	ug/L	134	21.0 - 132 *	126622216
Fluoranthene(Benzo(j,k)fluorene)	57300	50000	ug/L	115	47.0 - 130	126622216
Fluorene	52100	50000	ug/L	104	70.0 - 130	126622216
Hexachlorobenzene	51900	50000	ug/L	104	38.0 - 142	126622216
Hexachlorobutadiene	48600	50000	ug/L	97.2	68.0 - 130	126622216
Hexachlorocyclopentadiene	42300	50000	ug/L	84.6	60.0 - 140	126622216
Hexachloroethane	49400	50000	ug/L	98.8	55.0 - 130	126622216
Indeno(1,2,3-cd)pyrene	44100	50000	ug/L	88.2	13.0 - 151	126622216
Isophorone	53200	50000	ug/L	106	52.0 - 180	126622216
Naphthalene	48000	50000	ug/L	96.0	70.0 - 130	126622216
Nitrobenzene	48200	50000	ug/L	96.4	54.0 - 158	126622216
n-Nitrosodiethylamine	49200	50000	ug/L	98.4	60.0 - 140	126622216
N-Nitrosodimethylamine	46000	50000	ug/L	92.0	60.0 - 140	126622216
n-Nitroso-di-n-butylamine	48200	50000	ug/L	96.4	60.0 - 140	126622216
N-Nitrosodi-n-propylamine	55300	50000	ug/L	111	59.0 - 170	126622216
N-Nitrosodiphenylamine (as DPA	45400	50000	ug/L	90.8	60.0 - 140	126622216
p-Chloro-m-Cresol (4-Chloro-3-me	47600	50000	ug/L	95.2	68.0 - 130	126622216
Pentachlorobenzene	47300	50000	ug/L	94.6	60.0 - 140	126622216
Pentachlorophenol	47300	50000	ug/L	94.6	42.0 - 152	126622216
Phenanthrene	50700	50000	ug/L	101	67.0 - 130	126622216
Phenol	46300	50000	ug/L	92.6	48.0 - 130	126622216
Pyrene	55800	50000	ug/L	112	70.0 - 130	126622216
Pyridine	46700	50000	ug/L	93.4	60.0 - 140	126622216

DFTPP

<u>Parameter</u>		<u>RefMass</u>	<u>Reading</u>	<u>%</u>	<u>Limits%</u>	<u>File</u>
DFTPP Mass 127	626062	198	5193	48.0	40.0 - 60.0	126622215
DFTPP Mass 197	626062	198	22	0.2	0 - 1.00	126622215
DFTPP Mass 198	626062	198	10824	100.0	100 - 100	126622215
DFTPP Mass 199	626062	198	731	6.8	5.00 - 9.00	126622215

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DFTPP

<i>Parameter</i>		<i>RefMass</i>	<i>Reading</i>	<i>%</i>	<i>Limits%</i>	<i>File</i>
DFTPP Mass 275	626062	198	2365	21.8	10.0 - 30.0	126622215
DFTPP Mass 365	626062	198	251	2.3	1.00 - 100	126622215
DFTPP Mass 441	626062	443	886	76.6	0 - 100	126622215
DFTPP Mass 442	626062	198	6026	55.7	40.0 - 100	126622215
DFTPP Mass 443	626062	442	1156	19.2	17.0 - 23.0	126622215
DFTPP Mass 51	626062	198	3418	31.6	30.0 - 60.0	126622215
DFTPP Mass 68	626062	69.0	38	0.9	0 - 2.00	126622215
DFTPP Mass 69	626062	198	4146	38.3	0 - 100	126622215
DFTPP Mass 70	626062	69.0	79	1.9	0 - 2.00	126622215

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2,4,5-Tetrachlorobenzene	1130834	16.6	14.9	25.0	27.5 - 85.5	66.4	59.6	ug/L	10.8	50.0
1,2,4-Trichlorobenzene	1130834	15.7	14.8	25.0	44.0 - 142	62.8	59.2	ug/L	5.90	50.0
1,2-DPH (as azobenzene)	1130834	19.2	17.4	25.0	12.6 - 110	76.8	69.6	ug/L	9.84	50.0
2,4,5-Trichlorophenol	1130834	17.8	16.9	25.0	51.3 - 109	71.2	67.6	ug/L	5.19	50.0
2,4,6-Trichlorophenol	1130834	17.7	16.6	25.0	37.0 - 144	70.8	66.4	ug/L	6.41	58.0
2,4-Dichlorophenol	1130834	17.4	17.1	25.0	39.0 - 135	69.6	68.4	ug/L	1.74	50.0
2,4-Dimethylphenol	1130834	7.63	7.42	25.0	23.0 - 120	30.5	29.7	ug/L	2.66	68.0
2,4-Dinitrophenol	1130834	13.8	13.6	25.0	0.100 - 191	55.2	54.4	ug/L	1.46	132
2,4-Dinitrotoluene	1130834	20.9	20.0	25.0	39.0 - 139	83.6	80.0	ug/L	4.40	42.0
2,6-Dinitrotoluene	1130834	20.7	19.5	25.0	50.0 - 158	82.8	78.0	ug/L	5.97	48.0
2-Chloronaphthalene	1130834	17.9	16.6	25.0	60.0 - 120	71.6	66.4	ug/L	7.54	24.0
2-Chlorophenol	1130834	16.6	16.2	25.0	23.0 - 134	66.4	64.8	ug/L	2.44	61.0
2-Methylphenol (o-Cresol)	1130834	14.1	14.0	25.0	38.9 - 76.1	56.4	56.0	ug/L	0.712	50.0
2-Nitrophenol	1130834	17.4	16.8	25.0	29.0 - 182	69.6	67.2	ug/L	3.51	55.0
3&4-Methylphenol (m&p-Cresol)	1130834	13.1	13.2	25.0	33.0 - 70.4	52.4	52.8	ug/L	0.760	50.0
3,3'-Dichlorobenzidine	1130834	18.3	15.6	25.0	0.100 - 262	73.2	62.4	ug/L	15.9	108
4,6-Dinitro-2-methylphenol	1130834	16.7	15.6	25.0	0.100 - 181	66.8	62.4	ug/L	6.81	203
4-Bromophenyl phenyl ether	1130834	18.9	17.6	25.0	53.0 - 127	75.6	70.4	ug/L	7.12	43.0
4-Chlorophenyl phenyl ether	1130834	18.9	18.0	25.0	25.0 - 158	75.6	72.0	ug/L	4.88	61.0
4-Nitrophenol	1130834	6.70	7.72	25.0	0.100 - 132	26.8	30.9	ug/L	14.2	131
Acenaphthene	1130834	19.0	17.4	25.0	47.0 - 145	76.0	69.6	ug/L	8.79	48.0
Acenaphthylene	1130834	18.4	17.1	25.0	33.0 - 145	73.6	68.4	ug/L	7.32	74.0
Aniline	1130834	15.9	16.7	25.0	70.0 - 130	63.6 *	66.8 *	ug/L	4.91	50.0
Anthracene	1130834	19.7	18.5	25.0	27.0 - 133	78.8	74.0	ug/L	6.28	66.0
Benzidine	1130834	4.57	0.370	25.0	0.100 - 36.9	18.3	1.48	ug/L	170 *	90.0
Benzo(a)anthracene	1130834	19.4	18.2	25.0	33.0 - 143	77.6	72.8	ug/L	6.38	53.0
Benzo(a)pyrene	1130834	19.9	18.2	25.0	17.0 - 163	79.6	72.8	ug/L	8.92	72.0
Benzo(b)fluoranthene	1130834	20.5	18.7	25.0	24.0 - 159	82.0	74.8	ug/L	9.18	71.0
Benzo(ghi)perylene	1130834	15.0	14.6	25.0	0.100 - 219	60.0	58.4	ug/L	2.70	97.0
Benzo(k)fluoranthene	1130834	19.9	19.0	25.0	11.0 - 162	79.6	76.0	ug/L	4.63	63.0
Benzyl Butyl phthalate	1130834	19.6	18.5	25.0	0.100 - 152	78.4	74.0	ug/L	5.77	60.0
Bis(2-chloroethoxy)methane	1130834	18.6	17.8	25.0	33.0 - 184	74.4	71.2	ug/L	4.40	54.0
Bis(2-chloroethyl)ether	1130834	18.1	17.0	25.0	12.0 - 158	72.4	68.0	ug/L	6.27	108

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Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Bis(2-chloroisopropyl)ether	1130834	17.5	16.5	25.0	36.0 - 166	70.0	66.0	ug/L	5.88	76.0
Bis(2-ethylhexyl)phthalate	1130834	19.8	19.1	25.0	8.00 - 158	79.2	76.4	ug/L	3.60	82.0
Chrysene (Benzo(a)phenanthrene)	1130834	19.3	18.2	25.0	17.0 - 168	77.2	72.8	ug/L	5.87	87.0
Dibenz(a,h)anthracene	1130834	15.8	14.8	25.0	0.100 - 227	63.2	59.2	ug/L	6.54	126
Diethyl phthalate	1130834	19.6	19.0	25.0	0.100 - 120	78.4	76.0	ug/L	3.11	100
Dimethyl phthalate	1130834	19.4	18.9	25.0	0.100 - 120	77.6	75.6	ug/L	2.61	183
Di-n-butylphthalate	1130834	20.8	19.4	25.0	1.00 - 120	83.2	77.6	ug/L	6.97	47.0
Di-n-octylphthalate	1130834	21.4	19.8	25.0	4.00 - 146	85.6	79.2	ug/L	7.77	69.0
Fluoranthene(Benzo(j,k)fluorene)	1130834	21.7	20.9	25.0	26.0 - 137	86.8	83.6	ug/L	3.76	66.0
Fluorene	1130834	20.0	18.9	25.0	59.0 - 121	80.0	75.6	ug/L	5.66	38.0
Hexachlorobenzene	1130834	18.3	17.2	25.0	0.100 - 152	73.2	68.8	ug/L	6.20	55.0
Hexachlorobutadiene	1130834	14.5	13.6	25.0	24.0 - 120	58.0	54.4	ug/L	6.41	62.0
Hexachlorocyclopentadiene	1130834	8.45	8.17	25.0	3.97 - 68.7	33.8	32.7	ug/L	3.31	50.0
Hexachloroethane	1130834	14.5	13.3	25.0	40.0 - 120	58.0	53.2	ug/L	8.63	52.0
Indeno(1,2,3-cd)pyrene	1130834	15.7	14.9	25.0	0.100 - 171	62.8	59.6	ug/L	5.23	99.0
Isophorone	1130834	19.5	18.7	25.0	21.0 - 196	78.0	74.8	ug/L	4.19	93.0
Naphthalene	1130834	17.3	16.4	25.0	21.0 - 133	69.2	65.6	ug/L	5.34	65.0
Nitrobenzene	1130834	18.2	17.2	25.0	35.0 - 180	72.8	68.8	ug/L	5.65	62.0
n-Nitrosodiethylamine	1130834	18.7	18.3	25.0	18.0 - 100	74.8	73.2	ug/L	2.16	50.0
N-Nitrosodimethylamine	1130834	11.5	12.4	25.0	30.2 - 74.9	46.0	49.6	ug/L	7.53	50.0
n-Nitroso-di-n-butylamine	1130834	19.5	18.5	25.0	48.4 - 98.5	78.0	74.0	ug/L	5.26	50.0
N-Nitrosodi-n-propylamine	1130834	19.2	18.1	25.0	0.100 - 230	76.8	72.4	ug/L	5.90	87.0
N-Nitrosodiphenylamine (as DPA	1130834	19.8	18.3	25.0	49.3 - 94.2	79.2	73.2	ug/L	7.87	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1130834	18.0	18.0	25.0	22.0 - 147	72.0	72.0	ug/L	0	70.0
Pentachlorobenzene	1130834	17.9	16.8	25.0	39.3 - 93.7	71.6	67.2	ug/L	6.34	50.0
Pentachlorophenol	1130834	14.4	13.4	25.0	14.0 - 176	57.6	53.6	ug/L	7.19	86.0
Phenanthrene	1130834	19.8	18.2	25.0	54.0 - 120	79.2	72.8	ug/L	8.42	39.0
Phenol	1130834	7.32	7.70	25.0	5.00 - 120	29.3	30.8	ug/L	4.99	64.0
Pyrene	1130834	16.8	15.9	25.0	52.0 - 120	67.2	63.6	ug/L	5.50	49.0
Pyridine	1130834	8.85	8.84	25.0	11.2 - 50.6	35.4	35.4	ug/L	0	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	626184	CCV	44400	100000	ug/L	44.4	10.0 - 150	126622216
2-Fluorophenol-SURR	626184	CCV	47900	100000	ug/L	47.9	10.0 - 150	126622216
4-Terphenyl-d14-SURR	626184	CCV	48700	50000	ug/L	97.4	30.0 - 150	126622216
Nitrobenzene-d5-SURR	626184	CCV	48600	50000	ug/L	97.2	30.0 - 150	126622216
Phenol-d6-SURR	626184	CCV	49400	100000	ug/L	49.4	10.0 - 150	126622216
2,4,6-Tribromophenol	1130834	Blank	55.8	100	ug/L	55.8	10.0 - 150	126622217
2,4,6-Tribromophenol	1130834	LCS	61.3	100	ug/L	61.3	10.0 - 150	126622218
2,4,6-Tribromophenol	1130834	LCS Dup	59.3	100	ug/L	59.3	10.0 - 150	126622219
2-Fluorophenol-SURR	1130834	Blank	44300	100000	ug/L	44.3	10.0 - 150	126622217
2-Fluorophenol-SURR	1130834	LCS	39100	100000	ug/L	39.1	10.0 - 150	126622218
2-Fluorophenol-SURR	1130834	LCS Dup	40000	100000	ug/L	40.0	10.0 - 150	126622219
4-Terphenyl-d14-SURR	1130834	Blank	28800	50000	ug/L	57.6	30.0 - 150	126622217

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Surrogate								
Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Terphenyl-d14-SURR	1130834	LCS	29700	50000	ug/L	59.4	30.0 - 150	126622218
4-Terphenyl-d14-SURR	1130834	LCS Dup	28200	50000	ug/L	56.4	30.0 - 150	126622219
Nitrobenzene-d5-SURR	1130834	Blank	34700	50000	ug/L	69.4	30.0 - 150	126622217
Nitrobenzene-d5-SURR	1130834	LCS	34500	50000	ug/L	69.0	30.0 - 150	126622218
Nitrobenzene-d5-SURR	1130834	LCS Dup	32700	50000	ug/L	65.4	30.0 - 150	126622219
Phenol-d6-SURR	1130834	Blank	29700	100000	ug/L	29.7	10.0 - 150	126622217
Phenol-d6-SURR	1130834	LCS	27800	100000	ug/L	27.8	10.0 - 150	126622218
Phenol-d6-SURR	1130834	LCS Dup	28800	100000	ug/L	28.8	10.0 - 150	126622219
2,4,6-Tribromophenol	2319341	Unknown	57.4	105	ug/L	54.7	10.0 - 150	126622220
2-Fluorophenol-SURR	2319341	Unknown	41.6	105	ug/L	39.6	10.0 - 150	126622220
4-Terphenyl-d14-SURR	2319341	Unknown	26.9	52.6	ug/L	51.1	30.0 - 150	126622220
Nitrobenzene-d5-SURR	2319341	Unknown	32.7	52.6	ug/L	62.2	30.0 - 150	126622220
Phenol-d6-SURR	2319341	Unknown	29.0	105	ug/L	27.6	10.0 - 150	126622220

Analytical Set

1131902

ASTM D7065-11

Blank						
Parameter	PrepSet	Reading	MDL	MDL	Units	File
Nonylphenol	1131510	ND	5.00	30.0	ug/L	126626625

CCV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Nonylphenol	137000	150000	ug/L	91.4	70.0 - 130	126626624
Nonylphenol	135000	150000	ug/L	90.0	70.0 - 130	126626645

IS Areas								
Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	624841	CCV	634600	634600	317300	951900	126626624	624841
Acenaphthene-d10-ISTD	624841	CCV	855900	634600	317300	951900	126626645	624841
Phenanthrene-d10-ISTD	624841	CCV	904700	904700	452400	1357000	126626624	624841
Phenanthrene-d10-ISTD	624841	CCV	1170000	904700	452400	1357000	126626645	624841
Acenaphthene-d10-ISTD	1131510	Blank	419600	634600	317300	951900	126626625	1131510
Acenaphthene-d10-ISTD	1131510	LCS	448000	634600	317300	951900	126626626	1131510
Acenaphthene-d10-ISTD	1131510	LCS Dup	497600	634600	317300	951900	126626627	1131510
Phenanthrene-d10-ISTD	1131510	Blank	610000	904700	452400	1357000	126626625	1131510
Phenanthrene-d10-ISTD	1131510	LCS	639900	904700	452400	1357000	126626626	1131510
Phenanthrene-d10-ISTD	1131510	LCS Dup	688700	904700	452400	1357000	126626627	1131510
Acenaphthene-d10-ISTD	2319341	Unknown	501400	634600	317300	951900	126626634	1131510
Phenanthrene-d10-ISTD	2319341	Unknown	730200	904700	452400	1357000	126626634	1131510

IS RetTime								
Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	624841	CCV	6.747	6.747	6.687	6.807	126626624	624841
Acenaphthene-d10-ISTD	624841	CCV	6.747	6.747	6.687	6.807	126626645	624841
Phenanthrene-d10-ISTD	624841	CCV	7.962	7.962	7.902	8.022	126626624	624841
Phenanthrene-d10-ISTD	624841	CCV	7.962	7.962	7.902	8.022	126626645	624841
Acenaphthene-d10-ISTD	1131510	Blank	6.741	6.747	6.687	6.807	126626625	1131510

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	1131510	LCS	6.741	6.747	6.687	6.807	126626626	1131510
Acenaphthene-d10-ISTD	1131510	LCS Dup	6.741	6.747	6.687	6.807	126626627	1131510
Phenanthrene-d10-ISTD	1131510	Blank	7.956	7.962	7.902	8.022	126626625	1131510
Phenanthrene-d10-ISTD	1131510	LCS	7.962	7.962	7.902	8.022	126626626	1131510
Phenanthrene-d10-ISTD	1131510	LCS Dup	7.956	7.962	7.902	8.022	126626627	1131510
Acenaphthene-d10-ISTD	2319341	Unknown	6.747	6.747	6.687	6.807	126626634	1131510
Phenanthrene-d10-ISTD	2319341	Unknown	7.962	7.962	7.902	8.022	126626634	1131510

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nonylphenol	1131510	99.6	85.4	150	56.0 - 112	66.4	56.9	ug/L	15.4	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Nonylphenol	2318744	77.1	112	ND	144	56.0 - 112	53.2 *	77.2	ug/L	36.9 *	22.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Nonylphenol-SURR	624841	CCV	28000	25000	ug/L	112	50.0 - 130	126626624
4-Nonylphenol-SURR	624841	CCV	27200	25000	ug/L	109	50.0 - 130	126626645
4-Nonylphenol-SURR	1131510	Blank	18300	25000	ug/L	73.2	50.0 - 130	126626625
4-Nonylphenol-SURR	1131510	LCS	19300	25000	ug/L	77.2	50.0 - 130	126626626
4-Nonylphenol-SURR	1131510	LCS Dup	15900	25000	ug/L	63.6	50.0 - 130	126626627
4-Nonylphenol-SURR	2319341	Unknown	19.6	29.5	ug/L	66.4	50.0 - 130	126626634

Analytical Set

1131973

EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1130501	ND	0.202	0.202	ug/L	126628255
PCB-1221	1130501	ND	0.143	0.200	ug/L	126628255
PCB-1232	1130501	ND	0.143	0.200	ug/L	126628255
PCB-1242	1130501	ND	0.192	0.200	ug/L	126628255
PCB-1248	1130501	ND	0.143	0.200	ug/L	126628255
PCB-1254	1130501	ND	0.143	0.200	ug/L	126628255
PCB-1260	1130501	ND	0.161	0.200	ug/L	126628255
PCB-1262	1130501	ND	0.198	0.200	ug/L	126628255
PCB-1268	1130501	ND	0.143	0.200	ug/L	126628255

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
PCB-1016	1140	1000	ug/L	114	80.0 - 115	126628254
PCB-1016	1160	1000	ug/L	116	80.0 - 115 *	126628267
PCB-1016	1140	1000	ug/L	114	80.0 - 115	126628276
PCB-1260	899	1000	ug/L	89.9	80.0 - 115	126628254
PCB-1260	947	1000	ug/L	94.7	80.0 - 115	126628267
PCB-1260	963	1000	ug/L	96.3	80.0 - 115	126628276

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1130501	816	541	1000	39.8 - 135	81.6	54.1	ug/L	40.5 *	30.0
PCB-1260	1130501	822	646	1000	36.1 - 134	82.2	64.6	ug/L	24.0	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1130501	Blank	72.0	100	ug/L	72.0	10.0 - 200	126628255
Tetrachloro-m-Xylene (Surr)	1130501	Blank	38.4	100	ug/L	38.4	10.0 - 200	126628255
Decachlorobiphenyl	2319341	Unknown	0.033	0.099	ug/L	33.3	10.0 - 200	126628264
Tetrachloro-m-Xylene (Surr)	2319341	Unknown	0.0371	0.099	ug/L	37.5	10.0 - 200	126628264

Analytical Set

1131978

EPA 1657

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1130498	ND	41.4	50.0	ug/L	126628312
Chlorpyrifos	1130498	ND	22.6	50.0	ug/L	126628312
Demeton	1130498	ND	31.9	50.0	ug/L	126628312
Diazinon	1130498	ND	19.7	50.0	ug/L	126628312
Malathion	1130498	ND	24.8	50.0	ug/L	126628312
Parathion, ethyl	1130498	ND	23.9	50.0	ug/L	126628312
Parathion, methyl	1130498	ND	27.4	50.0	ug/L	126628312

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1130	1000	ug/L	113	37.0 - 150	126628311
Azinphos-methyl (Guthion)	1480	1000	ug/L	148	37.0 - 150	126628316
Chlorpyrifos	1090	1000	ug/L	109	48.0 - 150	126628311
Chlorpyrifos	1190	1000	ug/L	119	48.0 - 150	126628316
Demeton	1100	1000	ug/L	110	16.0 - 150	126628311
Demeton	1700	1000	ug/L	170	16.0 - 150 *	126628316
Diazinon	1060	1000	ug/L	106	50.0 - 150	126628311
Diazinon	1080	1000	ug/L	108	50.0 - 150	126628316
Malathion	1100	1000	ug/L	110	50.0 - 150	126628311
Malathion	1080	1000	ug/L	108	50.0 - 150	126628316
Parathion, ethyl	1080	1000	ug/L	108	50.0 - 150	126628311
Parathion, ethyl	1170	1000	ug/L	117	50.0 - 150	126628316
Parathion, methyl	1040	1000	ug/L	104	50.0 - 150	126628311
Parathion, methyl	1130	1000	ug/L	113	50.0 - 150	126628316

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1130498	359	412	1000	0.100 - 152	35.9	41.2	ug/L	13.7	50.0
Chlorpyrifos	1130498	515	533	1000	0.100 - 132	51.5	53.3	ug/L	3.44	50.0
Demeton	1130498	280	297	1000	0.100 - 114	28.0	29.7	ug/L	5.89	50.0
Diazinon	1130498	452	466	1000	0.100 - 119	45.2	46.6	ug/L	3.05	50.0
Malathion	1130498	439	454	1000	0.100 - 126	43.9	45.4	ug/L	3.36	50.0
Parathion, ethyl	1130498	439	448	1000	0.100 - 138	43.9	44.8	ug/L	2.03	50.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Parathion, methyl	1130498	556	570	1000	0.100 - 125	55.6	57.0	ug/L	2.49	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1090	2000	ug/L	54.5	0.100 - 106	126628311
Tributylphosphate		CCV	1110	2000	ug/L	55.5	0.100 - 106	126628316
Triphenylphosphate		CCV	1050	2000	ug/L	52.5	0.100 - 172	126628311
Triphenylphosphate		CCV	1250	2000	ug/L	62.5	0.100 - 172	126628316
Tributylphosphate	1130498	Blank	512	2000	ug/L	25.6	0.100 - 106	126628312
Tributylphosphate	1130498	LCS	625	2000	ug/L	31.2	0.100 - 106	126628313
Tributylphosphate	1130498	LCS Dup	603	2000	ug/L	30.2	0.100 - 106	126628314
Triphenylphosphate	1130498	Blank	548	2000	ug/L	27.4	0.100 - 172	126628312
Triphenylphosphate	1130498	LCS	580	2000	ug/L	29.0	0.100 - 172	126628313
Triphenylphosphate	1130498	LCS Dup	587	2000	ug/L	29.4	0.100 - 172	126628314
Tributylphosphate	2319341	Unknown	0.553	1.98	ug/L	27.9	0.100 - 106	126628315
Triphenylphosphate	2319341	Unknown	0.618	1.98	ug/L	31.2	0.100 - 172	126628315

Analytical Set 1132373

TX 1001

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Tributyltin hydride	1130125	ND	0.005	0.007	ug/L	126636272

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Tributyltin hydride	48300	50000	ug/L	96.5	70.0 - 130	126636271

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Tributyltin hydride	1130125	199	257	500	0.100 - 211	39.8	51.4	ug/L	25.4	30.0

Analytical Set 1133096

EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
bis(Chloromethyl)ether	1130834	ND	10.0	10.0	ug/L	126650561

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
bis(Chloromethyl)ether	38300	50000	ug/L	76.6	70.0 - 130	126650560

Analytical Set 1131211

SM 2510 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Lab Spec. Conductance at 25 C	1131211	0.217			umhos/cm	126614636

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
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Duplicate						
Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Lab Spec. Conductance at 25 C	2320733	1280	1270	umhos/cm	0.784	20.0

Standard							
Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	1131211	1420	1410	umhos/cm	101	90.0 - 110	126614637
Lab Spec. Conductance at 25 C	1131211	101	100	umhos/cm	101	90.0 - 110	126614638
Lab Spec. Conductance at 25 C	1131211	0.982	1.00	umhos/cm	98.2	90.0 - 110	126614639
Lab Spec. Conductance at 25 C	1131211	13000	12900	umhos/cm	101	90.0 - 110	126614640
Lab Spec. Conductance at 25 C	1131211	1420	1410	umhos/cm	101	90.0 - 110	126614651

Analytical Set

1131334

SM 2320 B-2011

Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Alkalinity (as CaCO3)	1131334	ND	1.00	1.00	mg/L	126616464

CCV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	27.3	25.0	mg/L	109	90.0 - 110	126616463
Total Alkalinity (as CaCO3)	27.3	25.0	mg/L	109	90.0 - 110	126616477
Total Alkalinity (as CaCO3)	27.3	25.0	mg/L	109	90.0 - 110	126616488

Duplicate						
Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Alkalinity (as CaCO3)	2316603	ND	ND	mg/L		20.0
Total Alkalinity (as CaCO3)	2320700	56.6	57.6	mg/L	1.75	20.0

ICV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	27.3	25.0	mg/L	109	90.0 - 110	126616462

Mat. Spike							
Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %
Total Alkalinity (as CaCO3)	2316603	ND	ND	25.0	mg/L	0	70.0 - 130
Total Alkalinity (as CaCO3)	2320700	81.4	57.6	25.0	mg/L	95.2	70.0 - 130

* Out RPD is Relative Percent Difference: $\text{abs}(r1-r2) / \text{mean}(r1,r2) * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

Email: Kilgore.ProjectManagement@spllabs.com



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QUALITY CONTROL



BAS1-C

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

Page 32 of 32

Project
1111894

Printed 08/26/2024

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.); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); MRL Check - Minimum Reporting Limit Check Std; BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); 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.); IS Areas - Internal Standard Area (The area of the internal standard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); CCB - Continuing Calibration Blank; AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; LCS - Laboratory Control Sample (reagent water or other blank matrices that is spiked with a known quantity of target analyte(s) and carried through preparation and analytical procedures exactly like a sample; typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.); DFTPP - GC/MS Tuning Compound

Email: Kilgore.ProjectManagement@spllabs.com



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1111894 CoC Print Group 001 of 002

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914



CHAIN OF CUSTODY

Printed 07/23/2024

Page 1 of 4

City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

BAS1-C
155

Lab Number _____

PO Number _____

Phone 512/332-8964

WWTP TPDES PR C EAST

☐ Hand Delivered by Client to Region or LAB

Bottles Filled 1305, War, 7/23/24
Matrix: Non-Potable Water

Composter: 1341, 6251 Bottle: 1984, 4383

Sample Collection Start

Date: 7/22/24 Time: 1300

Sampler Printed Name: William Ward

Sampler Affiliation: SPL

Sampler Signature:

Samples Radioactive? ☐Samples Contains Dioxin? ☐Samples Biological Hazard? ☐
☒ On Site Testing

Sample Collection Stop

Date: 7/23/24 Time: 1300

Sampler Printed Name: William Ward

Sampler Affiliation: SPL

Sampler Signature:

NELAC Short Hold

Cr6F

Hex Cr, Field Preservation

SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)

Hex Cr, Field Preservation

Collected By WA Date 7/23 Time 1305 Analyzed By WA Date 7/23 Time 1306

7 Amber Glass Qt w/Teflon lined lid

NELAC	!HER	Herbicides by GC	EPA 615 (7.00 days)
NELAC	!PCB	Polychlorinated Biphenyls	EPA 608.3 (7.00 days)
Z	#cpp	Organophos. Pesticides/1657	EPA 1657 (7.00 days)
	bCME	bis(Chloromethyl)ether Expansion	EPA 625.1 (7.00 days)
	HXPE	Hexachlorophene Expansion	EPA 604.1 CAS:70-30-4 (7.00 days)
	TBTE	Butyltin Expansion	TX 1001 (14.0 days)
NELAC	TYLC	Carbaryl/Diuron	EPA 632 (7.00 days)
	TYLP	Pesticides by GC	EPA 608.3 (7.00 days)

2 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid

NELAC Short Hold	\$AAE	Acrolein/Acrylonitrile Exp.	EPA 624.1 (3.00 days)
------------------	-------	-----------------------------	-----------------------



Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

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City of Bastrop
Curtis Hancock
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BAS1-C
155

2 H2SO4 to pH <2 GIQt w/Tef-lined lid

NYPE Nonyl Phenol Expansion

ASTM D7065-11 (14.0 days)

2 Amber Glass Qt w/Teflon lined lid

Short HoldSubcontract ASBT Asbestos-liquid (Electron Micros

Subcontract CAS:EMSL Houston (2.00 days)

NELAC

TTOA TTO SVOC 40 CFR 122 Table II

EPA 625.1 (7.00 days)

3 Amber Glass Liter w/Teflon lined lid

Subcontract !DIX Dioxins and Furans Subcontract

1613 CAS:ION1 (30.0 days)

1 Polyethylene 1/2 gal (White)

NELAC Short Hold

BODc BOD Carbonaceous

SM 5210 B-2016 (TCMP Inhibitor) (2.04 days)

NELAC

TSS Total Suspended Solids

SM 2540 D-2015 (7.00 days)

0 Z -- No bottle required

Subcontract 100S SUB Shipped

CKLM Check Limits

NELAC Short Hold

Cr+3 Trivalent Chromium

Calculation CAS:16065-83-1 (1.00 days)

Subcontract

S50 SUB Shipped

SKL Sub Hold: PM Attn

1 HNO3 to pH <2 Polyethylene 500 mL for Metals

NELAC

*AgM Silver, Total

EPA 200.8 5.4 CAS:7440-22-4 (180 days)

NELAC

*AlM Aluminum, Total

EPA 200.8 5.4 CAS:7429-90-5 (180 days)

NELAC

*AsM Arsenic, Total

EPA 200.8 5.4 CAS:7440-38-2 (180 days)

NELAC

*BaM Barium, Total

EPA 200.8 5.4 CAS:7440-39-3 (180 days)

NELAC

*BeM Beryllium, Total

EPA 200.8 5.4 CAS:7440-41-7 (180 days)

NELAC

*Bl Boron

EPA 200.7 4.4 CAS:7440-42-8 (180 days)

NELAC

*CdM Cadmium, Total

EPA 200.8 5.4 CAS:7440-43-9 (180 days)

NELAC

*CrM Chromium, Total

EPA 200.8 5.4 CAS:7440-47-3 (180 days)

NELAC

*CuM Copper, Total

EPA 200.8 5.4 CAS:7440-50-8 (180 days)



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Form rptcoc ISPLI Created 12/15/2010 Report Page 55 of 66

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CHAIN OF CUSTODY

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427
NELAC

BAS1-C
155

NELAC	*MgI	Magnesium, Total	EPA 200.7 4.4 CAS:7439-95-4 (180 days)
NELAC	*NiM	Nickel, Total	EPA 200.8 5.4 CAS:7440-02-0 (180 days)
NELAC	*PbM	Lead, Total	EPA 200.8 5.4 CAS:7439-92-1 (180 days)
NELAC	*PI	Phosphorus	EPA 200.7 4.4 CAS:7723-14-0 (180 days)
NELAC	*SbM	Antimony, Total	EPA 200.8 5.4 CAS:7440-36-0 (180 days)
NELAC	*SeM	Selenium, Total	EPA 200.8 5.4 CAS:7782-49-2 (180 days)
NELAC	*TlM	Thallium, Total	EPA 200.8 5.4 CAS:7440-28-0 (180 days)
NELAC	*ZnM	Zinc, Total	EPA 200.8 5.4 CAS:7440-66-6 (180 days)
	301L	Liquid Metals Digestion	EPA 200.2 2.8 (180 days)

3 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)

Short Hold T7VM Table 7 Volatiles + MEK/EDB EPA 624.1 (3.00 days)

1 H2SO4 to pH <2 250 ml Polyethylene

NELAC	NHaN	Ammonia Nitrogen	EPA 350.1 2 (28.0 days)
NELAC	TKN	Total Kjeldahl Nitrogen	EPA 351.2 2 CAS:7727-37-9 (28.0 days)

1 Glass /clean metals w/HCl

NELAC	*HgI	Mercury, Total (low level)	EPA 245.7 2 CAS:7439-97-6 (90.0 days)
NELAC	245I	Low Level Mercury Liquid Metals	EPA 245.7 2 (90.0 days)

2 Amber Glass Liter w/Teflon lined lid (2) Sent to Sub

Subcontract 4PCB PCB Congeners (77/81/126/169)(SU EPA 1668A Subcontract CAS:10N1 (365 days)

2 NaOH to pH >12 Polyethylene 250 mL/amber

NELAC	CNa	Cyanide, total	SM 4500-CN ⁻ E-2016 (14.0 days)
NELAC	CN-A	Cyanide - Available/Amenable	SM 4500-CN ⁻ G-2016 (14.0 days)
NELAC	CNCl	Cyanide After Chlorination	SM 4500-CN ⁻ G-2016 (14.0 days)

1 Polyethylene Quart

NELAC	ICIL	Chloride	EPA 300.0 2.1 (28.0 days)
NELAC	IFIL	Fluoride	EPA 300.0 2.1 (28.0 days)



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CHAIN OF CUSTODY

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427
NELAC Short Hold

BAS1-C
155

NELAC	IN3L	Nitrate-Nitrogen Total	EPA 300.0 2.1 CAS:14797-55-8 (2.00 days)
NELAC	IS4L	Sulfate	EPA 300.0 2.1 (28.0 days)
NELAC	CONL	Lab Spec. Conductance at 25 C	SM 2510 B-2011 (28.0 days)
NELAC Short Hold	Cr+6	Hexavalent Chromium	SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)
NELAC	TDS	Total Dissolved Solids	SM 2540 C-2015 (7.00 days)

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
7/23/24	1700	Printed Name William W. Jones	Affiliation SPL	Printed Name FedEx	Affiliation
		Signature [Signature]		Signature [Signature]	
7/24/24	1040	Printed Name FedEx	Affiliation	Printed Name Rayshawn Thompson	Affiliation SPL
		Signature [Signature]		Signature [Signature]	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

Sample Received on Ice? ☒ Yes ☐ No
Cooler/Sample Secure? ☒ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments

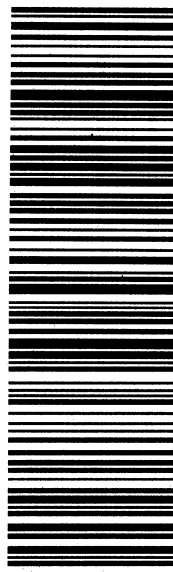


Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

Form rptcoc1SPL1 Created 12/13/2019 v1.6

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ORIGIN ID:MMRA (512) 821-0045 WILLIAM WARD CENTEX 8101 CAMERON RD. SUITE 305 AUSTIN, TX 78754 UNITED STATES US		SHIP DATE: 23 JUL 24 ACT WGT: 83.00 LB CND: 104384/99/NET/4730 DIMS: 24X14X14 IN BILL SENDER
TO SPL KILGORE ANA-LAB CORP. 2600 DUDLEY RD.		
KILGORE TX 75662 (903) 984-0551 NV REF:		
PO DEPT:		
TRK# 7775 3603 0144 0201 AH G GGA TX-US 75662 SHV WED - 24 JUL 5:00P STANDARD OVERNIGHT		
		
Date: 7/24/2024 Time: 10:40 AM Temp: 0.5 °C Therm #: 6443 Corr Fact: -0.2 C		



583J9IE0E4/9AE3

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CHAIN OF CUSTODY

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

BAS1-C
154

Lab Number 2319353

PO Number _____

Phone 512/332-8964

WWTP TPDES PR G EAST

☐ Hand Delivered by Client to Region or LAB

Matrix: Non-Potable Water

Sample Collection Start

Date: 7/23/24 Time: 1230Sampler Printed Name: William WardSampler Affiliation: SPCSampler Signature: [Signature]Samples Radioactive? ☐Samples Contains Dioxin? ☐Samples Biological Hazard? ☐
☒ On Site Testing

Cl2c Cl2 Res(Total) Analyzed by client

Cl2 Res(Total) Analyzed by client

Collected By Wpw Date 7/23 Time 1230 Analyzed By Wpw Date 7/23 Time 1235Results 0.59 Units mg/L Temp. — C Duplicate — Units — Temp. — CR1 0.73 R2 0.14 QC R1 — QC R2 —

NELAC Short Hold

DOCl

Dissolved Oxygen by Client

SM 4500-O G-2016 (0.0104 days)

Dissolved Oxygen by Client

Collected By Wpw Date 7/23 Time 1230 Analyzed By Wpw Date 7/23 Time 1231Results 7.61 Units mg/L Temp. 29.5 C Duplicate 7.57 Units mg/L Temp. 29.7 C

pHCl pH Client Provided

SM 4500-H+ B-2011



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CHAIN OF CUSTODY

Printed 07/23/2024

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

BASI-C
154

pH Client Provided

Collected By wp Date 7/23 Time 1230 Analyzed By wp Date 7/23 Time 1231

Results 7.01 Units 54 Temp. 29.7 C Duplicate 7.05 Units 54 Temp. 29.9 C

2 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized

Short HoldSubc: LENT Enterococci Subcontract

Subcontract CAS:LCRA (1.00 days)

Subcontract MPNL MPN, E.coli, Colilert-18-WW/SUB

Subcontract CAS:LCRA

1 H2SO4 to pH <2 GIQt w/Tef-lined lid

NELAC

HEM Oil and Grease (HEM)

EPA 1664B (HEM) (28.0 days)

0 Z -- No bottle required

SKL Sub Hold: PM Attn

1 Polyethylene Quart

NELAC

AlkT Total Alkalinity (as CaCO3)

SM 2320 B-2011 (14.0 days)

Ambient Conditions/Comments

Date	Time	Relinquished	Received
7/23/24	1700	Printed Name <u>William Ward</u> Affiliation <u>SPL</u>	Printed Name <u>FedEx</u> Affiliation
		Signature <u>[Signature]</u>	Signature
7/24/24	1040 to 30	Printed Name <u>FGLEY</u> Affiliation	Printed Name <u>Rayshawn Thompson SPL, Inc.</u> Affiliation
		Signature	Signature <u>[Signature]</u>
7/24/24	2120	Printed Name Affiliation	Printed Name Affiliation
		Signature	Signature
		Printed Name Affiliation	Printed Name Affiliation
		Signature	Signature



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Printed 07/23/2024

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

BAS1-C
154

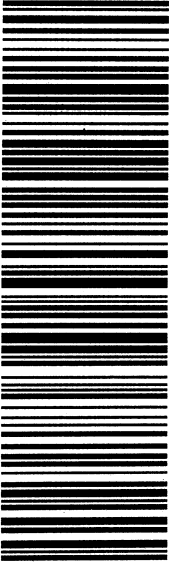
Sample Received on Ice? ☒ Yes ☐ No
Cooler/Sample Secure? ☒ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments



1111894 CoC Print Group 001 of 002

ORIGIN ID: MMRA (512) 821-0045 WILLIAM WARD CENTEX 8101 CAMERON RD. SUITE 305 AUSTIN, TX 78754 UNITED STATES US		SHIP DATE: 23 JUL 24 ACTWGT: 65.00 LB CAD: 104384799/NET 4730 DIMS: 24x14x14 IN BILL SENDER	
TO SPL KILGORE ANA-LAB CORP. 2600 DUDLEY RD.			
KILGORE TX 75662 INV: (903) 984-0551 REF:		DEPT:	
TRK# 7775 3603 0144 0201			
WED - 24 JUL 5:00P STANDARD OVERNIGHT			
AH G GGA TX-US 75662 SHV			
			
Date: 7/24/24 Time: 10:40 AM Temp: 0.5 Tech: B.3 Therm #: 0443 Corr Fact: -0.2 C			

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SUBCONTRACT CHAIN OF CUSTODY

LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr.
Austin, TX 78744

BAS1-C
154

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Page 1 of 1

Lab Number

PO Number



2319383

23261104
7/26/24 LCRA

WWTP TPDES PR G EAST

TAT _____

Matrix: Non-Potable Water

Sample Collection Start

Date: 7/23/24 Time: 1230

Sampler Printed Name: W:11 Sam Dad

Sampler Affiliation: SPC

Sampler Signature:

Samples Radioactive? ☐Samples Contains Dioxin? ☐Samples Biological Hazard? ☐

2

Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized

Short Hold Subcontract

Enterococci Subcontract

Subcontract CAS: LCRA (1.00 days)

Subcontract MPNL

MPN, E.coli, Colilert-18-WW/SUB

Subcontract CAS: LCRA

Ambient Conditions/Comments

Date Time	Relinquished	Date Time	Received
7/23/24 1619	Printed Name: W:11 Sam Dad Signature: Affiliation: SPC	7/23/24 1619	Printed Name: Kelly Lakowski Signature: Affiliation: LCRA
	Printed Name: _____ Signature: _____ Affiliation: _____		Printed Name: _____ Signature: Affiliation: _____
	Printed Name: _____ Signature: _____ Affiliation: _____		Printed Name: _____ Signature: _____ Affiliation: _____
	Printed Name: _____ Signature: _____ Affiliation: _____		Printed Name: _____ Signature: _____ Affiliation: _____

Sample Received on Ice?

Yes ☒ No ☐

Cooler/Sample Secure?

Yes ☒ No ☐

Method of Shipment:

☐ UPS☐ Bus☐ FedEx☐ Lone Star☒ Hand Delivered☐ Other

If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region []

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments

4.9/4.9 CT FR 8



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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

BAS1-C
154

Lab Number

2320053

PO Number

Phone

512/332-8964

WWTP TPDES PR G EAST

1111894

☐ Hand Delivered by Client to Region or LAB

Matrix: Non-Potable Water

Sample Collection Start

Date: 7/23/24 Time: 1230

Sampler Printed Name: William Ward

Sampler Affiliation: SPC

Sampler Signature: [Signature]

☐ Samples Radioactive?

☐ Samples Contains Dioxin?

☐ Samples Biological Hazard?

☒ On Site Testing

Cl2c Cl2 Res(Total) Analyzed by client

Cl2 Res(Total) Analyzed by client

Collected By _____ Date _____ Time _____ Analyzed By _____ Date _____ Time _____

Results _____ Units _____ Temp. _____ C Duplicate _____ Units _____ Temp. _____ C

R1 _____ R2 _____ QC R1 _____ QC R2 _____

NELAC Short Hold

DOCl Dissolved Oxygen by Client

SM 4500-O G-2016 (0.0104 days)

Dissolved Oxygen by Client

Collected By _____ Date _____ Time _____ Analyzed By _____ Date _____ Time _____

Results _____ Units _____ Temp. _____ C Duplicate _____ Units _____ Temp. _____ C

pHCl pH Client Provided

SM 4500-H+ B-2011



Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78734

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City of Bastrop
Curtis Hancock
1311 Chestnut St.
Bastrop, TX 78602-0427

BAS1-C
154

pH Client Provided

Collected By _____ Date _____ Time _____ Analyzed By _____ Date _____ Time _____

Results _____ Units _____ Temp. _____ C Duplicate _____ Units _____ Temp. _____ C

2 **Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized**

Short HoldSubco LENT Enterococci Subcontract Subcontract CAS:LCRA (1.00 days)

Subcontract MPNL MPN, E.coli, Colilert-18-WW/SUB Subcontract CAS:LCRA

1 **H2SO4 to pH <2 GIQt w/Tef-lined lid**

NELAC HEM Oil and Grease (HEM) EPA 1664B (HEM) (28.0 days)

0 **Z -- No bottle required**

SKL Sub Hold P/M Attn

1 **Polyethylene Quart**

NELAC AlkT Total Alkalinity (as CaCO3) SM 2320 B-2011 (14.0 days)

Ambient Conditions/Comments

Date	Time	Relinquished	Received
7/25/24	1700	Printed Name William Ward - SPL, Inc. Signature <i>[Signature]</i>	Printed Name FedEx Signature <i>[Signature]</i>
7/26/24	1030	Printed Name FedEx Signature <i>[Signature]</i>	Printed Name McCabe Wheeler SPL, Inc. Signature <i>[Signature]</i>
		Printed Name _____ Signature _____	Printed Name _____ Signature _____
		Printed Name _____ Signature _____	Printed Name _____ Signature _____



Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

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ORIGIN ID:MMRA (512) 821-0045
WILLIAM WARD
CENTEX
8101 CAMERON RD.
SUITE 305
AUSTIN, TX 78754
UNITED STATES US

SHIP DATE: 25JUL24
ACTWGT: 65.00 LB
CAD: 104384799/INET4730
DIMS: 24x14x14 IN
BILL-SENDER

TO **SPL KILGORE**
ANA-LAB CORP.
2600 DUDLEY RD.

KILGORE TX 75662

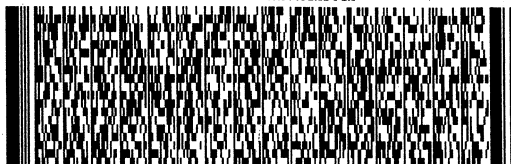
(903) 984-0551

REF:

INV.

PO:

DEPT:



FedEx
Express



J243024671351107

FRI - 26 JUL 5:00P

TRK# **7775 3609 7637**

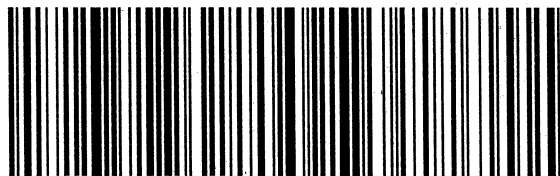
0201

STANDARD OVERNIGHT

AH GGGA

75662

TX-US **SHV**



7/26 1030 HU
Date Time Tech
Temp: 33/3.1 C

Therm#: 6443 Corr Fact: -0.2 C



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040
Phone/Fax: (713) 686-3635 / (713) 686-3645
<http://www.EMSL.com> / houstonlab@emsl.com

EMSL Order ID: 152404846
Customer ID: ANAL52
Customer PO:
Project ID:

Attn: Project Manager
Southern Petroleum Laboratories Inc
101 Ibex Lane
Broussard, LA 70518

Phone: (337) 233-2066
Fax: (903) 984-5914
Received: 07/24/2024
Analyzed: 07/30/2024

Proj: BAS1-C-155 / WWTP TPDES PR C EAST

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
					MFL (million fibers per liter)				
WWTP TPDES PR C EAST 152404846-0001	7/24/2024 11:38 AM	50	1282	0.1397	None Detected	ND	0.18	<0.18	0.00 - 0.68
Collection Date/Time: 07/22/2024 13:00 PM									

Analyst(s)

Michelle Leggett

(1)

Michelle Leggett, Laboratory Manager
or Other Approved Signatory

Any questions please contact Michelle Leggett.

Initial report from: 07/30/2024 13:24:02

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection performed by the client. Pre-cleaned sample containers are available for purchase from EMSL. Note if sample containers are provided by the client, acceptable bottle blank level is defined as ≤0.01MFL for ≥10µm fibers. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson). 5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

Samples analyzed by EMSL Analytical, Inc. Houston, TX Accredited by Texas Commission on Env. Quality



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

August 16, 2024

SPL INC
SPL
2600 DUDLEY RD
Kilgore, TX 75663
Kilgore.ProjectManagement@spl-inc.com

RE: Final Analytical Report Q2431368

Attn: SPL INC

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report. This final report provides results related only to the sample(s) as received for the above referenced work order.

Thank you for selecting ELS for your analytical needs. If you have any questions regarding this report, please contact us at (512) 730-6022 or environmental.lab@lcra.org. We look forward to assisting you again.

Authorized for release by:

Ariana Dean
Account Manager
ariana.dean@lcra.org



Enclosures:
CC:WILLIAM WARD,CRISTIAN FARIAS

Workorder: Q2431368
Workorder Description: SPLBSA1C154_07232024
Client: SOUTHERN PETROLEUM
LABORATORIES
Profile: BACTERIA ANALYSIS
Sampled By: WILLIAM WARD

Report To: SPL INC
SPL
2600 DUDLEY RD
Kilgore, TX 75663

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
Q2431368001	BAS1 C 154	AQ	SM9223B, IDEXX	07/23/2024 12:30	07/23/2024 16:19	2

Report Definitions

MRL - Minimum Reporting Limit
LOD - Limit of Detection
ML - Maximum Limit - Client Specified
MCL - Maximum Contaminant Level
LOQ - Limit of Quantitation - Client Specified
DF - Dilution Factor
(S) - Surrogate Spike
MDL - Method Detection Limit
RPD - Relative Percent Difference

Qualifier Definitions

J - Analyte detected below quantitation limit
R - RPD outside duplicate precision limit
S - Spike recovery outside limit
B - Analyte detected in method blank
N - Not Accredited
M - Analyte Detected Above Maximum Contaminant Level
SL - Spike Recovery Low
SH - Spike Recovery High
H - Analyzed Past Hold Time
CR - Confirmed Result
CH - Result confirmed by historical data

Workorder Summary

Batch Comments

MIC/7896 - E-Coli by IDEXX SM9223B

The Log Difference of Duplicates met the precision criterion of 0.5.

Analytical Results

Client ID: SPL	Date Collected: 07/23/2024 12:30	Matrix: Aqueous
Lab ID: Q2431368001	Date Received: 07/23/2024 16:19	Sample Type: SAMPLE
Sample ID: BAS1 C 154	Location:	
Project ID: BACTERIA ANALYSIS	Facility:	
	Sample Point:	

E. COLI (SM9223B, IDEXX)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Ecoli	4.09	MPN/100mL	1.00	1.00		1	07/23/2024 17:50	MAB	07/23/2024 17:50	MAB	
Ecoli Holding Time	5.3	HOURS	0.0	0.0			07/23/2024 17:50	MAB	07/23/2024 17:50	MAB	N

Quality Control Results

QC Batch: MIC/7896
Preparation Method: SM9223B, IDEXX
Associated Lab IDs: Q2431368001

Analysis Method: SM9223B, IDEXX

Duplicate (2105393); Original Q2431369001

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Ecoli	MPN/100mL	4.02	6.02			

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
<i>MIC/7896 - SM9223B, IDEXX</i>			
Q2431368001	BAS1 C 154		

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914



SUBCONTRACT CHAIN OF CUSTODY

Printed 07/15/2024 Page 1 of 1

LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr.
Austin, TX 78744

BASI-C
154

Lab Number 02431368
PO Number _____ LCRA

WWTP TPDES PR G EAST

TAT _____

Matrix: Non-Potable Water

Sample Collection Start

Date: 7/23/24 Time: 1230

Sampler Printed Name: William Dean

Sampler Affiliation: SPL

Sampler Signature: [Signature]

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

2 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized

Short Hold Subcontract ENT Enterococci Subcontract Subcontract CAS:LCRA (1.00 days)
Subcontract MPNL MPN, E.coli, Coliform-18-WW/SUB Subcontract CAS:LCRA

Ambient Conditions/Comments

Date Time	Relinquished	Date Time	Received
<u>7/23/24</u> <u>1619</u>	<u>William Dean</u> <u>SPL</u>	<u>7/23/24</u> <u>1619</u>	<u>Kelly Larkins</u> <u>LCRA</u>
Signature _____	Affiliation _____	Signature _____	Affiliation _____
Printed Name _____	Affiliation _____	Printed Name _____	Affiliation _____
Signature _____	Affiliation _____	Signature _____	Affiliation _____
Printed Name _____	Affiliation _____	Printed Name _____	Affiliation _____
Signature _____	Affiliation _____	Signature _____	Affiliation _____
Printed Name _____	Affiliation _____	Printed Name _____	Affiliation _____
Signature _____	Affiliation _____	Signature _____	Affiliation _____

Sample Received on Ice? ☒ Yes ☐ No Method of Shipment: ☐ UPS ☐ Bus ☐ FedEx ☐ Lone Star ☒ Hand Delivered ☐ Other
Cooler/Sample Secure? ☒ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached Hand Delivered to Region []

The accredited column designates accreditation by A - A2LA, N - NELAP, or z - not listed under scope of accreditation. Unless otherwise specified, SPL will provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments

4.9/4.9 CT FR 8



Central TX R



2.24.7.4

Form iptSUBVENCocSPL Created 12/13/2019 v1.0



End of Report

Abesha Michael

From: James Wilson <jwilson@cityofbastrop.org>
Sent: Thursday, September 19, 2024 7:36 AM
To: Abesha Michael; Curtis Hancock
Cc: Katie Leatherwood; Cassandra Villarreal
Subject: RE: Application to Renew Permit No. WQ0011076001 - Notice of Deficiency Letter
Attachments: Municipal Discharge Renewal Spanish NORI.docx; WQ0011076001-nod1.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Abesha,

Good morning. We have received, and are responding to the attached letter, dated September 13, 2024. The responses are as follows:

1. The information provided has been reviewed and does not contain any errors or omissions.
2. Please find the attached NORI, translated to Spanish as requested.

Please let me know if you need anything further.

Best,



James B. Wilson
Superintendent
Water/Wastewater
City of Bastrop, TX

Main 512-332-8960 | Fax 512-332-8969
jwilson@cityofbastrop.org | www.cityofbastrop.org
1311 Chestnut Street, Bastrop, Texas 78602

Confidentiality Notice | This e-mail (including attachments) is covered by the Electronic Communications Privacy Act, 18 U.S.C. 2510-2521, is confidential and may be legally privileged. If you are not the intended recipient, you are hereby notified that any retention, dissemination, distribution, or copying of this communications is strictly prohibited. Please reply to the sender that you have received the message in error, then delete it. Please note that any correspondence, such as e-mail or letters, sent to City staff or City officials may become a public record and made available for Public/media review.

From: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Sent: Friday, September 13, 2024 10:29 AM
To: Curtis Hancock <chancock@cityofbastrop.org>
Cc: James Wilson <jwilson@cityofbastrop.org>
Subject: Application to Renew Permit No. WQ0011076001 - Notice of Deficiency Letter

CAUTION: This email originated outside the City of Bastrop, TX email system. Please maintain caution when opening links or attachments.

Dear Mr. Hancock:

The attached Notice of Deficiency letter sent on September 13, 2024, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by September 27, 2024. .

Thank you,



Abesha H. Michael
Applications Review & Processing Team
Water Quality Division Support Section
Water Quality Division, MC 148
PO Box 13087
Austin, Texas 78711
Phone: o: 512-239-4912; c: 346-802-8446
Email: abesha.michael@tceq.texas.gov

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

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. WQ0011076001

SOLICITUD. La ciudad de Bastrop, 1311 Chestnut Street, Bastrop, Texas 78602, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0011076001 (EPA I.D. No. TX 0032671) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 1,400,000 galones por día. La planta está ubicada 300 Water Street, Bastrop, en el Condado de Bastrop, Texas. La ruta de descarga es del sitio de la planta a Colorado River Above La Grange. La TCEQ recibió esta solicitud el 3 de septiembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en 1311 Chestnut Street, Bastrop, 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=-97.318888,30.102777&level=18>

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos

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

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

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

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

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y

solicitudes deben ser presentadas electrónicamente vía

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

También se puede obtener información adicional del la Ciudad de Bastrop a la dirección indicada arriba o llamando a Sr. Curtis Hancock al 512-332-8960.

Fecha de emission:



TPDES PERMIT NO. WQ0011076001
*[For TCEQ office use only - EPA I.D.
No. TX0032671]*

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

This is a renewal that replaces TPDES
Permit No. WQ0011076001 issued on
March 3, 2020.

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

City of Bastrop

whose mailing address is

1311 Chestnut Street
Bastrop, Texas 78602

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

located at 300 Water Street, in the City of Bastrop, Bastrop County, Texas 78602

directly to Colorado River Above La Grange in Segment No. 1434 of the Colorado River Basin

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

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

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

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

The annual average flow of effluent shall not exceed 1.40 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,722 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 (117)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (175)	25	40	60	Two/week	Composite
Ammonia Nitrogen	2 (23)	4	10	15	Two/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. 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 week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 5.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

- a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.
- b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

- ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

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

- e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the n th 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 Domestic Permits Team, Domestic Wastewater 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 Domestic Permits Team, Domestic Wastewater Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30

TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

7. Documentation

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

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

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

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

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

- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
 - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
 - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well,

container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

- f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. Volume of waste and date(s) generated from treatment process;
 - ii. Volume of waste disposed of on-site or shipped off-site;
 - iii. Date(s) of disposal;
 - iv. Identity of hauler or transporter;
 - v. Location of disposal site; and
 - vi. Method of final disposal.

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

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

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SLUDGE PROVISIONS

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

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

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.
3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 11) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(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):

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

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

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

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

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

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge or biosolids for disposal at a landfill) 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

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

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

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
3. A description of how the vector attraction reduction requirements are met.
4. A description of how the management practices listed above in Section II.C are being met.
5. The following certification statement:

“I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment.”
6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee’s specific sludge treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.
 - c. The number of acres in each site on which bulk biosolids are applied.
 - d. The date and time biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of biosolids applied to each site in dry tons.

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) 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 report.
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 report.
 - 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. 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 11) 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 11) and the Enforcement Division (MC 224), by September 30 of each year.

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Toxicity Characteristic Leaching Procedure (TCLP) results.
3. Annual sludge or biosolids production in dry tons/year.
4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
5. Amount of sludge or biosolids transported interstate in dry tons/year.
6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
7. Identity of hauler(s) and transporter registration number.
8. Owner of disposal site(s).
9. Location of disposal site(s).
10. Date(s) of disposal.

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

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

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

A. General Requirements

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

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:
 - a. the amount of sludge or biosolids transported;
 - b. the date of transport;
 - c. the name and TCEQ permit number of the receiving facility or facilities;
 - d. the location of the receiving facility or facilities;
 - e. the name and TCEQ permit number of the facility that generated the waste; and
 - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. the annual sludge or biosolids production;
3. the amount of sludge or biosolids transported;
4. the owner of each receiving facility;
5. the location of each receiving facility; and
6. the date(s) of disposal at each receiving facility.

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OTHER REQUIREMENTS

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

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

2. The facility is not located in the Coastal Management Program boundary.
3. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge.
4. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.
5. 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 Domestic Wastewater Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, one/week may be reduced to two/month. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Domestic Wastewater Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The following pollutants may not be introduced into the treatment facility:
 - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;
 - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;
 - d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
 - e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;
 - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;
 - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
 - h. Any trucked or hauled pollutants except at discharge points designated by the POTW.
2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*].
3. The permittee shall provide adequate notification to the Executive Director, care of the Domestic Wastewater Section (MC 148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of either of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were 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.

Any 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 July 2007

BIOMONITORING REQUIREMENTS**48-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER**

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

1. **Scope, Frequency, and Methodology**

- a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival of the test organisms.
- b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update
 - 1) Acute static renewal 48-hour definitive toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.
 - 2) Acute static renewal 48-hour definitive toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

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

- c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 3%, 4%, 5%, 7%, and 9% effluent. The critical dilution, defined as 7% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. This permit may be amended to require a WET limit, a chemical-specific limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. Testing Frequency Reduction
 - 1) If none of the first four consecutive quarterly tests demonstrates

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

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

2. Required Toxicity Testing Conditions

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

- 1) a control mean survival of 90% or greater; and
- 2) a coefficient of variation percent (CV%) of 40 or less for both the control and critical dilution. However, if significant lethality is demonstrated, a CV% greater than 40 shall not invalidate the test. The CV% requirement does not apply when significant lethality occurs.

- b. Statistical Interpretation

- 1) For the water flea and fathead minnow tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.
- 2) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.
- 3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 90% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.
- 4) The NOEC is defined as the greatest effluent dilution at which no significant lethality is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which significant lethality is demonstrated. Significant lethality is defined as a statistically significant difference between the survival of the test

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

- 5) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 2.
- 6) Pursuant to the responsibility assigned to the permittee in Part 2.b.2), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 2 will be used when making a determination of test acceptability.
- 7) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

- 1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:
 - a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or
 - b) use the closest downstream perennial water unaffected by the discharge.
- 2) Where the receiving water proves unsatisfactory as a result of preexisting instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;
 - b) the test indicating receiving water toxicity was carried out to completion; and
 - c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.

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

d. Samples and Composites

- 1) The permittee shall collect a minimum of two composite samples from Outfall 001. The second composite sample will be used for the renewal of the dilution concentrations for each toxicity test.
- 2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for the subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
- 4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.
- 5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

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

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.
 - 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

- 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
 - 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
- 1) For the water flea, Parameter TEM3D, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For the water flea, Parameter TOM3D, report the NOEC for survival.
 - 3) For the water flea, Parameter TXM3D, report the LOEC for survival.
 - 4) For the fathead minnow, Parameter TEM6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
 - 5) For the fathead minnow, Parameter TOM6C, report the NOEC for survival.
 - 6) For the fathead minnow, Parameter TXM6C, report the LOEC for survival.
- d. Enter the following codes for retests only:
- 1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

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

- a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates significant lethality. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant

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

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

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
 - 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
 - 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

- 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
- 1) results and interpretation of any chemical specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - 3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality. i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

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

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

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

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond their control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.
- h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

Dates and Times No. 1 FROM: _____ Date _____ Time _____ TO: _____ Date _____ Time _____
 Composites
 Collected No. 2 FROM: _____ TO: _____

Test initiated: _____ am/pm _____ date
 Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent (%)					
		0%	3%	4%	5%	7%	9%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

*Coefficient of Variation = Standard Deviation x 100/mean

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

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

CRITICAL DILUTION (7%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

1) NOEC survival = _____% effluent

2) LOEC survival = _____% effluent

TABLE 1 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

Dates and Times No. 1 FROM: _____ Date _____ Time _____ TO: _____ Date _____ Time _____
 Composites
 Collected No. 2 FROM: _____ TO: _____

Test initiated: _____ am/pm _____ date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent (%)					
		0%	3%	4%	5%	7%	9%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

* Coefficient of Variation = standard deviation x 100/mean

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

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

CRITICAL DILUTION (7%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

1) NOEC survival = _____% effluent

2) LOEC survival = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

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

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with “Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms,” fifth edition (EPA-821-R-02-012) or its most recent update:
 - 1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.
 - 2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

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

- c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
 - d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
2. Required Toxicity Testing Conditions
- a. Test Acceptance – The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
 - b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
 - c. Samples and Composites

- 1) The permittee shall collect one composite sample from Outfall 001.
- 2) The permittee shall collect the composite samples such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
- 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
- 5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

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

- a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.
 - 1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."
 - 2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

d. Enter the following codes for retests only:

- 1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."
- 2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. Persistent Mortality

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

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
 - 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting

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

- 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
 - 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization - The TRE action plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
- 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - 3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

- 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

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

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

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in item 5.h. The report will also specify a corrective action schedule for implementing the selected control mechanism.
- h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival

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

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

- i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC₅₀ below:

24 hour LC₅₀ = _____% effluent

TABLE 2 (SHEET 2 OF 2)
FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC₅₀ below:

24 hour LC₅₀ = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011076001, EPA I.D. No. TX0032671, 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 Bastrop
1311 Chestnut Street
Bastrop, Texas 78602

Prepared By: Sonia Bhuiya
Domestic Permits Team
Domestic Wastewater Section (MC 148)
Water Quality Division
(512) 239-1205

Date: October 24, 2025

Permit Action: Renewal

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 1.4 million gallons per day (MGD). The existing wastewater treatment facility serves the East Bastrop.

The plant site is located at 300 Water Street, in the City of Bastrop, Bastrop County, Texas 78602.

Outfall Location:

Outfall Number	Latitude	Longitude
001	30.102601 N	97.319315 W

The treated effluent is discharged directly to Colorado River Above La Grange in Segment No. 1434 of the Colorado River Basin. The designated uses for Segment No. 1434 are primary contact recreation, public water supply, and exceptional aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The East Bastrop Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode. Treatment units include bar screens, one aeration basin, one final clarifier, one aerobic sludge digester, two sludge drying beds, and a chlorine contact chamber and a dechlorination chamber. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, WMT Austin Community Recycling and Disposal Facility, Permit No. MSW-249D, in Travis County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The East Bastrop WWTP does not appear to receive significant industrial wastewater contributions. Based on the information provided by the permittee in the most recent TPDES permit application, the TCEQ determined that there are no significant industrial wastewater contributions currently being discharged to the permittee's POTW.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period August 2025 through September 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 (CBOD₅), total suspended solids (TSS), and ammonia nitrogen (NH₃-N). The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

<u>Parameter</u>	<u>Average of Daily Avg</u>
Flow, MGD	1.18
CBOD ₅ , mg/l	3.86
TSS, mg/l	3.76
NH ₃ -N, mg/l	4.79
<i>E. coli</i> , CFU or MPN per 100 ml	39

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

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

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 1.40 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,722 gallons per minute.

<u>Parameter</u>	<u>30-Day Average</u>	<u>7-Day Average</u>	<u>Daily Maximum</u>
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City of Bastrop TPDES Permit No. WQ0011076001
Fact Sheet and Executive Director's Preliminary Decision

	<u>mg/l</u>	<u>lbs/day</u>	<u>mg/l</u>	<u>mg/l</u>
CBOD ₅	10	117	15	25
TSS	15	175	25	40
NH ₃ -N	2	23	4	10
DO (minimum)	5.0	N/A	N/A	N/A
<i>E. coli</i> , 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 week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. 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.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD ₅	Two/week
TSS	Two/week
NH ₃ -N	Two/week
DO	Two/week
<i>E. coli</i>	One/week

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, WMT Austin Community Recycling and Disposal Facility, Permit No. MSW-249D, in Travis County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of Pollution" [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*]. The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment

language for a facility of this size and complexity.

D. 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 3%, 4%, 5%, 7%, and 9%. The low-flow effluent concentration (critical dilution) is defined as 7% 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*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

F. SUMMARY OF CHANGES FROM EXISTING PERMIT

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

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.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC §

305.132.

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

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).

A mixing zone evaluation for pH is included within Attachment A of this Fact Sheet. The evaluation has demonstrated that water quality-based pH limitations of 6.5 to 9.0 standard units are required to ensure compliance with the TSWQS. See Attachment A of this Fact Sheet.

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged directly to Colorado River Above La Grange in Segment No. 1434 of the Colorado River Basin. The designated uses for Segment No. 1434 are primary contact recreation, public water supply, and exceptional 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.

A priority watershed of critical concern or high priority has been identified in Segment 1434 in Bastrop County. The Houston toad (*Bufo houstonensis*), an endangered aquatic dependent species, has been documented in several water bodies within the Segment 1434 watershed. However, the main stem of the Colorado River, which directly receives the discharge, is not one of the water bodies where the toad is known to occur. Therefore, the Houston toad is not expected to be impacted by this permit action. This determination is based on Appendix A of the United States Fish and Wildlife Service's biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System dated September 14, 1998 and the October 21, 1998 update. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1434 is not currently listed on the State's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list).

The pollutant analysis of treated effluent provided by the permittee in the application indicated 760 mg/l total dissolved solids (TDS), 98.7 mg/l sulfate, and 146 mg/l chloride present in the effluent. The segment criteria for Segment No. 1434 are 500 mg/l for TDS, 100 mg/l for sulfate, and 100 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for TDS, chloride, or sulfate. See Attachment B of this Fact Sheet.

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

(2) CONVENTIONAL PARAMETERS

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

The existing effluent limits have been reviewed for consistency with the State of Texas Water Quality Management Plan (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 the Colorado River Above La Grange. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters the Colorado River Above La Grange.

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 1.40 MGD and the 7-day, 2-year (7Q2) flow of 291.36 cfs for the Colorado River Above La Grange. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 1.40 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %:	2.89%	Chronic Effluent %:	0.74%
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Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level.

The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12).

Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and 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 190 mg/l for hardness (as calcium carbonate), 54 mg/l

chlorides, 7.8 standard units for pH, and 5 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

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

(b) PERMIT ACTION

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

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue 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 1.40 MGD and the harmonic mean flow of 623.93 cfs for the Colorado River Above La Grange. The following critical effluent percentage is being used:

Human Health Effluent %: 0.35%

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

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

(b) PERMIT ACTION

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

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1434, 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 three years, the permittee performed twenty-two 48-hour acute tests, with zero demonstration of significant toxicity (i.e., zero failures).

A reasonable potential (RP) determination was performed in accordance with 40 CFR § 122.44(d)(1)(ii) to determine whether the discharge will

reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of 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 zero failures by the water flea, a determination of no RP was made. WET limits are not required, and this test species may be eligible for the testing frequency reduction after one year of quarterly testing.

(b) PERMIT ACTION

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

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

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed fifteen 24-hour acute tests, with two demonstrations of significant mortality (i.e., two failures) by the fathead minnow, resulting in a TRE.

(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 Sonia Bhuiya at (512) 239-1205.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0011076001 issued on March 3, 2020.

B. APPLICATION

Application received on September 3, 2024, and additional information received on October 24, 2024.

C. MEMORANDA

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

D. MISCELLANEOUS

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

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

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

Texas 2024 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the U.S. Environmental Protection Agency on November 13, 2024.

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

Attachment A: pH Screening

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

INPUT		
1. DILUTION FACTOR AT MIXING ZONE BOUNDARY	1.416	1.416
RECEIVING WATER CHARACTERISTICS		
2. Temperature (deg C):	35.00	35.00
3. pH:	7.80	7.80
4. Alkalinity (mg CaCO ₃ /L):	150.00	150.00
EFFLUENT CHARACTERISTICS		
5. Temperature (deg C):	35.00	35.00
6. pH:	6.00	9.00
7. Alkalinity (mg CaCO ₃ /L):	20.00 *	120.00
OUTPUT		
1. IONIZATION CONSTANTS		
Upstream/Background pKa:	6.30	6.30
Effluent pKa:	6.30	6.30
2. IONIZATION FRACTIONS		
Upstream/Background Ionization Fraction:	0.97	0.97
Effluent Ionization Fraction:	0.33	1.00
3. TOTAL INORGANIC CARBON		
Upstream/Background Total Inorganic Carbon (mg CaCO ₃ /L):	154.79	154.79
Effluent Total Inorganic Carbon (mg CaCO ₃ /L):	60.27	120.24
4. CONDITIONS AT MIXING ZONE BOUNDARY		
Temperature (deg C):	35.00	35.00
Alkalinity (mg CaCO ₃ /L):	58.16	128.81
Total Inorganic Carbon (mg CaCO ₃ /L):	88.02	130.38
pKa:	6.30	6.30

pH at Mixing Zone Boundary:

6.59

8.22

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

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

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 3 - Discharge to a Perennial Stream or River

Applicant Name:	City of Bastrop
Permit Number, Outfall:	11076001, Outfall 001
Segment Number:	1434

Enter values needed for screening:			Data Source (edit if different)
QE - Average effluent flow	1.4	MGD	
QS - Perennial stream harmonic mean flow	708.00	cfs	Critical conditions memo
QE - Average effluent flow	2.1661	cfs	Calculated
CA - TDS - ambient segment concentration	340	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	56	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	44	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	100	mg/L	Latest approved TSWQS, Appendix A
CE - TDS - average effluent concentration	760	mg/L	Permit application
CE - chloride - average effluent concentration	146	mg/L	Permit application
CE - sulfate - average effluent concentration	98.7	mg/L	Permit application

Screening Equation

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

Preliminary Calculations		Load in River	Effluent Load	New Concentration	% Change in Ambient	% Change in Assim. Capacity
Parameter	QSCA	QECE	Equation 2			
TDS	240720	1646.253	341.28		0.4	0.8
Chloride	39648	316.2538	56.27		0.5	0.6
Sulfate	31152	213.7962	44.17		0.4	0.3

No further screening for TDS needed if:	341.28	≤	500
No further screening for chloride needed if:	56.27	≤	100
No further screening for sulfate needed if:	44.17	≤	100

Permit Limit Calculations

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TDS

Calculate the WLA	$WLA = [CC(QE+QS) - (QS)(CA)]/QE$	52796.22
Calculate the LTA	$LTA = WLA * 0.93$	49100.49
Calculate the daily average	$Daily\ Avg. = LTA * 1.47$	72177.72
Calculate the daily maximum	$Daily\ Max. = LTA * 3.11$	152702.52
Calculate 70% of the daily average	70% of Daily Avg. =	50524.40
Calculate 85% of the daily average	85% of Daily Avg. =	61351.06

No permit limitations needed if:	760	≤	50524.40		
Reporting needed if:	760	>	50524.40	but ≤	61351.06
Permit limits may be needed if:	760	>	61351.06		

No permit limitations needed for TDS

Chloride

Calculate the WLA	$WLA = [CC(QE+QS) - (QS)(CA)]/QE$	14481.46
Calculate the LTA	$LTA = WLA * 0.93$	13467.76
Calculate the daily average	$Daily\ Avg. = LTA * 1.47$	19797.61
Calculate the daily maximum	$Daily\ Max. = LTA * 3.11$	41884.73
Calculate 70% of the daily average	70% of Daily Avg. =	13858.32
Calculate 85% of the daily average	85% of Daily Avg. =	16827.97

No permit limitations needed if:	146	≤	13858.32		
Reporting needed if:	146	>	13858.32	but ≤	16827.97
Permit limits may be needed if:	146	>	16827.97		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	$WLA = [CC(QE+QS) - (QS)(CA)]/QE$	18403.68
Calculate the LTA	$LTA = WLA * 0.93$	17115.42
Calculate the daily average	$Daily\ Avg. = LTA * 1.47$	25159.67
Calculate the daily maximum	$Daily\ Max. = LTA * 3.11$	53228.96
Calculate 70% of the daily average	70% of Daily Avg. =	17611.77
Calculate 85% of the daily average	85% of Daily Avg. =	21385.72

No permit limitations needed if:	98.7	≤	17611.77		
Reporting needed if:	98.7	>	17611.77	but ≤	21385.72
Permit limits may be needed if:	98.7	>	21385.72		

No permit limitations needed for sulfate

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Attachment C: Calculated Water Quality Based Effluent Limitations

TEXTTOX MENU #3 - PERENNIAL STREAM OR RIVER

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

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life

Table 2, 2018 Texas Surface Water Quality Standards for Human Health

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Bastrop
TPDES Permit No.:	WQ0011076001
Outfall No.:	001
Prepared by:	October 23, 2025
Date:	

DISCHARGE INFORMATION

Receiving Waterbody:	Colorado River Above La Grange
Segment No.:	1434
TSS (mg/L):	5
pH (Standard Units):	7.8
Hardness (mg/L as CaCO ₃):	190
Chloride (mg/L):	54
Effluent Flow for Aquatic Life (MGD):	1.4
Critical Low Flow [7Q2] (cfs):	291.36
% Effluent for Chronic Aquatic Life (Mixing Zone):	0.74
% Effluent for Acute Aquatic Life (ZID):	2.89
Effluent Flow for Human Health (MGD):	1.4
Harmonic Mean Flow (cfs):	623.93
% Effluent for Human Health:	0.35
Human Health Criterion (select: PWS, FISH, or INC)	PWS

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

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	147826.3	0.575		1.00	Assumed
Cadmium	6.60	-1.13	645897.9	0.236		1.00	Assumed
Chromium (total)	6.52	-0.93	741238.3	0.212		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	741238.3	0.212		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	318245.4	0.386		1.00	Assumed
Lead	6.45	-0.80	777721.3	0.205		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	195698.3	0.505		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	457152.2	0.304		1.00	Assumed

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			408057.1				
Zinc	6.10	-0.70	5	0.329		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	N/A	104	N/A	59.5	N/A	87.5	185
Aluminum	991	N/A	34315	N/A	19663	N/A	28904	61151
Arsenic	340	150	20475	35350	11732	27220	17246	36487
Cadmium	0.7	0.042	105	23.8	59.9	18.3	26.9	56.9
Carbaryl	2.0	N/A	69.3	N/A	39.7	N/A	58.3	123
Chlordane	2.4	0.004	83.1	0.542	47.6	0.417	0.613	1.29
Chlorpyrifos	0.083	0.041	2.87	5.56	1.65	4.28	2.42	5.12
Chromium (trivalent)	71	9	11492	5850	6585	4505	6621	14009
Chromium (hexavalent)	15.7	10.6	544	1436	312	1106	457	968
Copper	1.3	1.1	115	376	66.0	289	97.0	205
Cyanide (free)	45.8	10.7	1586	1450	909	1116	1335	2826
4,4'-DDT	1.1	0.001	38.1	0.136	21.8	0.104	0.153	0.324
Demeton	N/A	0.1	N/A	13.6	N/A	10.4	15.3	32.4
Diazinon	0.17	0.17	5.89	23.0	3.37	17.7	4.95	10.4
Dicofol [Kelthane]	59.3	19.8	2053	2683	1177	2066	1729	3659
Dieldrin	0.24	0.002	8.31	0.271	4.76	0.209	0.306	0.649
Diuron	210	70	7272	9486	4167	7304	6125	12958
Endosulfan I (<i>alpha</i>)	0.22	0.056	7.62	7.59	4.37	5.84	6.41	13.5
Endosulfan II (<i>beta</i>)	0.22	0.056	7.62	7.59	4.37	5.84	6.41	13.5
Endosulfan sulfate	0.22	0.056	7.62	7.59	4.37	5.84	6.41	13.5
Endrin	0.086	0.002	2.98	0.271	1.71	0.209	0.306	0.649
Guthion [Azinphos Methyl]	N/A	0.01	N/A	1.36	N/A	1.04	1.53	3.24
Heptachlor	0.52	0.004	18.0	0.542	10.3	0.417	0.613	1.29
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	1.126	0.08	39.0	10.8	22.3	8.35	12.2	25.9
Lead	4	0.14	625	95.3	358	73.3	107	228
Malathion	N/A	0.01	N/A	1.36	N/A	1.04	1.53	3.24
Mercury	2.4	1.3	83.1	176	47.6	136	70.0	148
Methoxychlor	N/A	0.03	N/A	4.07	N/A	3.13	4.60	9.73
Mirex	N/A	0.001	N/A	0.136	N/A	0.104	0.153	0.324
Nickel	54	6.0	3706	1611	2124	1240	1823	3857
Nonylphenol	28	6.6	970	894	556	689	816	1727
Parathion (ethyl)	0.065	0.013	2.25	1.76	1.29	1.36	1.89	4.01
Pentachlorophenol	#REF!	#REF!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Phenanthrene	30	30	1039	4065	595	3130	875	1851
Polychlorinated Biphenyls [PCBs]	2.0	0.014	69.3	1.90	39.7	1.46	2.14	4.54
Selenium	20	5	693	678	397	522	583	1234
Silver	0.8	N/A	426	N/A	244	N/A	358	758
Toxaphene	0.78	0.0002	27.0	0.0271	15.5	0.0209	0.0306	0.0649
Tributyltin [TBT]	0.13	0.024	4.50	3.25	2.58	2.50	3.68	7.78
2,4,5 Trichlorophenol	136	64	4709	8673	2698	6678	3966	8392
Zinc	13	14	1421	5605	814	4316	1196	2531

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

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<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	33240	30913	45442	96139
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.00332	0.00308	0.00453	0.00958
Anthracene	1109	1317	13170	380668	354021	520411	1101005
Antimony	6	1071	10710	309564	287894	423204	895351
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	167933	156178	229581	485713
Benzidine	0.0015	0.107	1.07	30.9	28.8	42.2	89.4
Benzo(a)anthracene	0.024	0.025	0.25	7.23	6.72	9.87	20.8
Benzo(a)pyrene	0.0025	0.0025	0.025	0.723	0.672	0.987	2.08
Bis(chloromethyl)ether	0.0024	0.2745	2.745	79.3	73.8	108	229
Bis(2-chloroethyl)ether	0.60	42.83	428.3	12380	11513	16924	35805
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	2182	2030	2983	6311
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	79486	73922	108665	229898
Bromoform [Tribromomethane]	66.9	1060	10600	306384	284937	418857	886155
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	13296	12365	18176	38455
Chlordane	0.0025	0.0025	0.025	0.723	0.672	0.987	2.08
Chlorobenzene	100	2737	27370	791107	735730	1081522	2288119
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	52895	49192	72312	152987
Chloroform [Trichloromethane]	70	7697	76970	2224754	2069021	3041461	6434656
Chromium (hexavalent)	62	502	5020	145099	134942	198364	419669
Chrysene	2.45	2.52	25.2	728	677	995	2106
Cresols [Methylphenols]	1041	9301	93010	2688377	2500191	3675280	7775593
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.578	0.538	0.790	1.67
4,4'-DDE	0.00013	0.00013	0.0013	0.0376	0.0349	0.0513	0.108
4,4'-DDT	0.0004	0.0004	0.004	0.116	0.108	0.158	0.334
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	136717	127147	186905	395425
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	1226	1140	1675	3544
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	171980	159941	235113	497417
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	953549	886800	1303596	2757948
<i>p</i> -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	647	602	885	1872
1,2-Dichloroethane	5	364	3640	105211	97846	143834	304302
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	15930247	14815129	21778240	46075052
Dichloromethane [Methylene Chloride]	5	13333	133330	3853794	3584028	5268521	11146327
1,2-Dichloropropane	5	259	2590	74862	69621	102343	216522
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	34396	31988	47022	99483
Dicofol [Kelthane]	0.30	0.30	3	86.7	80.6	118	250
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.00578	0.00538	0.00790	0.0167
2,4-Dimethylphenol	444	8436	84360	2438356	2267671	3333476	7052457
Di- <i>n</i> -Butyl Phthalate	88.9	92.4	924	26707	24838	36511	77245
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	0.0000230	0.0000214	0.0000314	0.0000666
Endrin	0.02	0.02	0.2	5.78	5.38	7.90	16.7
Epichlorohydrin	53.5	2013	20130	581841	541112	795434	1682858
Ethylbenzene	700	1867	18670	539641	501866	737743	1560803

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				48559012	45159881	66385026	140447231
Ethylene Glycol	46744	1.68E+07	1.68E+08	51	64	00	88
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.0289	0.0269	0.0395	0.0835
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0838	0.0780	0.114	0.242
Hexachlorobenzene	0.00068	0.00068	0.0068	0.197	0.183	0.268	0.568
Hexachlorobutadiene	0.21	0.22	2.2	63.6	59.1	86.9	183
Hexachlorocyclohexane (<i>alpha</i>)	0.0078	0.0084	0.084	2.43	2.26	3.31	7.02
Hexachlorocyclohexane (<i>beta</i>)	0.15	0.26	2.6	75.2	69.9	102	217
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.2	0.341	3.41	98.6	91.7	134	285
Hexachlorocyclopentadiene	10.7	11.6	116	3353	3118	4583	9697
Hexachloroethane	1.84	2.33	23.3	673	626	920	1947
Hexachlorophene	2.05	2.90	29	838	780	1145	2424
4,4'-Isopropylidenediphenol	1092	15982	159820	4619465	4296103	6315270	13360878
Lead	1.15	3.83	38.3	5412	5033	7398	15652
Mercury	0.0122	0.0122	0.122	3.53	3.28	4.82	10.1
Methoxychlor	2.92	3.0	30	867	806	1185	2507
				28672940	26665834	39198777	
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	7	9	2	829307464
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	3029736	2817654	4141951	8762904
Nickel	332	1140	11400	651928	606293	891250	1885571
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	541375	503479	740114	1565819
N-Nitrosodiethylamine	0.0037	2.1	21	607	564	829	1755
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	1214	1129	1659	3511
Pentachlorobenzene	0.348	0.355	3.55	103	95.4	140	296
Pentachlorophenol	0.22	0.29	2.9	83.8	78.0	114	242
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.185	0.172	0.252	0.535
Pyridine	23	947	9470	273723	254562	374206	791687
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	69.4	64.5	94.8	200
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	7616	7083	10412	22028
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	80932	75266	110641	234078
Thallium	0.12	0.23	2.3	66.5	61.8	90.8	192
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	3.18	2.96	4.34	9.19
2,4,5-TP [Silvex]	50	369	3690	106656	99190	145809	308482
				22671104	21084127	30993667	
1,1,1-Trichloroethane	200	784354	7843540	6	3	0	655716357
1,1,2-Trichloroethane	5	166	1660	47981	44622	65594	138775
Trichloroethylene [Trichloroethene]	5	71.9	719	20782	19327	28411	60108
2,4,5-Trichlorophenol	1039	1867	18670	539641	501866	737743	1560803
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	4769	4435	6519	13793

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

Aquatic Life	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Aldrin	61.2	74.3
Aluminum	20232	24568
Arsenic	12072	14659
Cadmium	18.8	22.8
Carbaryl	40.8	49.5
Chlordane	0.429	0.521

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Chlorpyrifos	1.69	2.05
Chromium (trivalent)	4635	5628
Chromium (hexavalent)	320	389
Copper	67.9	82.4
Cyanide (free)	935	1135
4,4'-DDT	0.107	0.130
Demeton	10.7	13.0
Diazinon	3.47	4.21
Dicofol [Kelthane]	1210	1470
Dieldrin	0.214	0.260
Diuron	4287	5206
Endosulfan I (<i>alpha</i>)	4.49	5.45
Endosulfan II (<i>beta</i>)	4.49	5.45
Endosulfan sulfate	4.49	5.45
Endrin	0.214	0.260
Guthion [Azinphos Methyl]	1.07	1.30
Heptachlor	0.429	0.521
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	8.58	10.4
Lead	75.4	91.6
Malathion	1.07	1.30
Mercury	49.0	59.5
Methoxychlor	3.22	3.91
Mirex	0.107	0.130
Nickel	1276	1549
Nonylphenol	571	694
Parathion (ethyl)	1.32	1.61
Pentachlorophenol	#VALUE!	#VALUE!
Phenanthrene	612	743
Polychlorinated Biphenyls [PCBs]	1.50	1.82
Selenium	408	495
Silver	251	304
Toxaphene	0.0214	0.0260
Tributyltin [TBT]	2.57	3.12
2,4,5 Trichlorophenol	2776	3371
Zinc	837	1017

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Acrylonitrile	31809	38625
Aldrin	0.00317	0.00385
Anthracene	364287	442349
Antimony	296243	359723
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	160707	195144
Benzidine	29.5	35.9
Benzo(<i>a</i>)anthracene	6.91	8.39
Benzo(<i>a</i>)pyrene	0.691	0.839
Bis(chloromethyl)ether	75.9	92.1
Bis(2-chloroethyl)ether	11846	14385
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	2088	2535
Bromodichloromethane [Dichlorobromomethane]	76066	92366
Bromoform [Tribromomethane]	293200	356029

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Cadmium	N/A	N/A
Carbon Tetrachloride	12723	15450
Chlordane	0.691	0.839
Chlorobenzene	757065	919294
Chlorodibromomethane [Dibromochloromethane]	50618	61465
Chloroform [Trichloromethane]	2129023	2585242
Chromium (hexavalent)	138855	168610
Chrysene	697	846
Cresols [Methylphenols]	2572696	3123988
Cyanide (free)	N/A	N/A
4,4'-DDD	0.553	0.671
4,4'-DDE	0.0359	0.0436
4,4'-DDT	0.110	0.134
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	130833	158869
1,2-Dibromoethane [Ethylene Dibromide]	1172	1424
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	164579	199846
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	912517	1108056
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	619	752
1,2-Dichloroethane	100683	122259
1,1-Dichloroethylene [1,1-Dichloroethene]	15244768	18511504
Dichloromethane [Methylene Chloride]	3687964	4478242
1,2-Dichloropropane	71640	86992
1,3-Dichloropropene [1,3-Dichloropropylene]	32915	39969
Dicofol [Kelthane]	82.9	100
Dieldrin	0.00553	0.00671
2,4-Dimethylphenol	2333433	2833455
Di- <i>n</i> -Butyl Phthalate	25558	31034
Dioxins/Furans [TCDD Equivalents]	0.0000220	0.0000267
Endrin	5.53	6.71
Epichlorohydrin	556804	676119
Ethylbenzene	516420	627081
	46469518	56427272
Ethylene Glycol	20	10
Fluoride	N/A	N/A
Heptachlor	0.0276	0.0335
Heptachlor Epoxide	0.0802	0.0974
Hexachlorobenzene	0.188	0.228
Hexachlorobutadiene	60.8	73.8
Hexachlorocyclohexane (<i>alpha</i>)	2.32	2.82
Hexachlorocyclohexane (<i>beta</i>)	71.9	87.3
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	94.3	114
Hexachlorocyclopentadiene	3208	3896
Hexachloroethane	644	782
Hexachlorophene	802	974
4,4'-Isopropylidenediphenol	4420689	5367980
Lead	5178	6288
Mercury	3.37	4.09
Methoxychlor	829	1007
	27439144	33318960
Methyl Ethyl Ketone	0	6
Methyl <i>tert</i> -butyl ether [MTBE]	2899366	3520658
Nickel	623875	757563
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A

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Nitrobenzene	518079	629096
N-Nitrosodiethylamine	580	705
N-Nitroso-di- <i>n</i> -Butylamine	1161	1410
Pentachlorobenzene	98.1	119
Pentachlorophenol	80.2	97.4
Polychlorinated Biphenyls [PCBs]	0.177	0.214
Pyridine	261944	318075
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	66.3	80.6
1,1,2,2-Tetrachloroethane	7288	8850
Tetrachloroethylene [Tetrachloroethylene]	77449	94045
Thallium	63.6	77.2
Toluene	N/A	N/A
Toxaphene	3.04	3.69
2,4,5-TP [Silvex]	102066	123938
	21695566	26344617
1,1,1-Trichloroethane	9	0
1,1,2-Trichloroethane	45916	55755
Trichloroethylene [Trichloroethene]	19887	24149
2,4,5-Trichlorophenol	516420	627081
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	4563	5541