Technical Package Cover Page

This file contains the following documents:

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

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

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

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 Hillsboro ((CN600514228)) operates the City of Hillsboro Wastewater Treatment Plant (RN102844180), a wastewater treatment facility. The facility is located at 600 Parham Street, in Hillsboro, Hill County, Texas 76645. This application is for the renewal to discharge an annual average flow of 1,810,000 gallons per day (1.81 MGD) of treated domestic wastewater via Outfall 001..

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N) and Escherichia coli. Domestic wastewater is treated by an activated sludge process with nitrification and denitrification in an Oxidation Ditch.

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

AGUAS RESIDUALES DOMESTICAS **/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 Hillsboro ((CN600514228)) opera la Planta de Tratamiento de Aquas Residuales de la Ciudad de Hillsboro (RN102844180), una instalación de tratamiento de aguas residuales. La instalación está ubicada en 600 Parham Street, en Hillsboro, Condado de Hill, Texas 76645. Esta solicitud es para la renovación para descargar un flujo prmedio anual de 1,810,000 galones por día (1.81 MGD) de aguas rediduales domésticas tratadas a través del Emisario 001..Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco días, sólidos suspendidos totals (SST), nitrógeno ammoniacal (NH3-N) y Escherichia coli. Las aguas residuals domésticas . estará tratado por un proceso de lodos activados con nitrificación en Zanja de Oxidación.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010630001

APPLICATION. City of Hillsboro, P.O. Box 568, Hillsboro, Texas 76645, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010630001 (EPA I.D. No. TX0023108) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,810,000 gallons per day. The domestic wastewater treatment facility is located at 600 Parham Street, in the city of Hillsboro, in Hill County, Texas 76645. The discharge route is from the plant site to an unnamed drainage ditch; thence to Little Hackberry Creek; thence to Hackberry Creek; thence to Aquilla Reservoir. TCEQ received this application on August 23, 2024. The permit application will be available for viewing and copying at City of Hillsboro, City Government, 214 East Elm Street, Hillsboro, in Hill County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.141666,31.999444&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 Hillsboro at the address stated above or by calling Ms. Susan Hilton, P.E., Project Manager/MRB Group, at 254-771-2054.

Issuance Date: September 16, 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. WQ0010630001

SOLICITUD. Ciudad de Hillsboro, PO Box 568, Hillsboro, TX 76645 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010630001 (EPA I.D. No. TX 0023108) 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 1,810,000 galones por día. La planta está ubicada 600 Parham Street, Hillsboro en el Condado de Hill, Texas. La ruta de descarga es del sitio de la planta a una zanja de drenaje sin nombre; luego a Little Hackberry Creek; luego a Hackberry Creek; luego al embalse Aquilla Reservoir. La TCEQ recibió esta solicitud el 23 de Augosto 2024. La solicitud para el permiso estará disponible para leerla y copiarla en la Ciudad de Hillsboro Gobierno de la ciudad, 214 East Elm Street, Hillsboro, en el condado de Hill, Texas antes de la fecha de publicación de este aviso en el periódico. La aplicación incluidas las actualizaciones y los avisos asociados están disponibles electrónicamente en la siguiente pagina web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.141666,31.999444&level=18

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.

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

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

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

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

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

También se puede obtener información adicional del la Ciudad de Hillsboro a la dirección indicada arriba o llamando Ms. Susan Hilton, P.E., Project Manager/MRB Group, at 254-771-2054.

Fecha de emission: 16 de septiembre de 2024

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010630001

APPLICATION AND PRELIMINARY DECISION. City of Hillsboro, P.O. Box 568, Hillsboro, Texas 76645, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010630001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 1,810,000 gallons per day. TCEQ received this application on August 23, 2024.

The facility is located at 600 Parham Street, in Hill County, Texas 76645. The treated effluent is discharged to an unnamed drainage ditch, thence to Little Hackberry Creek, thence to Hackberry Creek, thence to Aquilla Reservoir in Segment No. 1254 of the Brazos River Basin. The unclassified receiving water uses are minimal aquatic life use for unnamed drainage ditch and limited aquatic life use for Little Hackberry Creek and Hackberry Creek. The designated uses for Segment No. 1254 are primary contact recreation, public water supply, and high aquatic life use. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.141666,31.999444&level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at City of Hillsboro, City Government, 214 East Elm Street, Hillsboro, in Hill County, 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 Hillsboro at the address stated above or by calling Ms. Susan Hilton, P.E., Project Manager/MRB Group, at 254-771-2054.

Issuance Date: November 20, 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 INDUSTRIALES

RENOVACIÓN

PERMISO NO. WQ 0010630001

SOLICITUD Y DECISIÓN PRELIMINAR. La ciudad de Hillsboro. P.O. caja 568, Hillsboro, TX 76645, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar la descarga de aguas domésticas tratadas con un caudal medio diario que no supere los 1,810,000 galones por día. La TCEQ recibió esta solicitud el 23 de agosto de 2024.

La instalación se encuentra en 600 Parham St. En el condado de Hill, Texas 76645. El efluente tratado se descarga a una zanja de drenaje sin nombre, de ahí a Little Hackberry Creek, luego a Hackberry Creek y finalmente al embalse Aquilla en el Segmento No. 1254 de la cuenca del río Brazos. Los usos no clasificados del agua receptora son: uso mínimo para la vida acuática en la zanja de drenaje sin nombre y uso limitado para la vida acuática en la zanja de drenaje sin nombre y uso limitado para la vida acuática en Little Hackberry Creek y Hackberry Creek. Los usos designados para el Segmento No. 1254 son: recreación de contacto directo, abastecimiento público de agua y uso intensivo para la vida acuática. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona a título informativo y no forma parte de la solicitud ni del aviso. Para conocer la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.141666,31.999444&level=18

El director ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. De ser aprobado, este borrador establecerá las condiciones de operación de la instalación. El director ejecutivo ha determinado preliminarmente que este permiso, de ser emitido, cumple con todos los requisitos legales y reglamentarios. La solicitud de permiso, la decisión preliminar del director ejecutivo y el borrador del permiso están disponibles para su consulta y copia en la Oficina del Gobierno Municipal de Hillsboro, ubicada en 214 East Elm Street, Hillsboro, Condado de Hill, Texas. La solicitud también está disponible para su consulta y copia en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

COMENTARIO PÚBLICO / REUNIÓN PÚBLICA. 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 PARA UNA AUDIENCIA DE CASO IMPUGNADO. Después de la fecha límite para los comentarios públicos, el director ejecutivo considerará todos los comentarios recibidos a tiempo y preparará una respuesta a todos los comentarios públicos pertinentes, sustanciales o significativos. **Salvo que la solicitud se remita directamente a una audiencia contenciosa, la respuesta a los comentarios se enviará por correo a todas las personas que presentaron comentarios públicos y a quienes figuren en la lista de correo para esta solicitud. Si se reciben comentarios, el envío también incluirá instrucciones para solicitar una audiencia contenciosa o la reconsideración de la decisión del director ejecutivo.** Una audiencia contenciosa es un procedimiento legal similar a un juicio civil en un tribunal estatal de distrito.

PARA SOLICITAR UNA AUDIENCIA CONTENCIOSA, DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y el número del permiso propuesto; la ubicación y distancia de su propiedad/actividades con respecto a la instalación propuesta; una descripción específica de cómo la instalación le afectaría negativamente una manera que no sea común para el público en general; una lista de todos los hechos controvertidos que presente durante el periodo de comentarios; y la declaración "Nosotros solicitamos una audiencia contenciosa". Si la solicitud audiencia contenciosa se presenta en nombre de un grupo o asociación, la solicitud debe designar al representante del grupo para recibir correspondencia futura; identificar por nombre y dirección física a un miembro del grupo que se vería afectado negativamente por la instalación o actividad propuesta; proporcionar la información mencionada anteriormente sobre la ubicación y distancia del miembro afectado con respecto a la instalación o actividad; explicar cómo y por qué se vería afectado el miembro; y explicar cómo los intereses que el grupo busca proteger son relevantes para su propósito.

Una vez finalizados todos los periodos aplicables para comentarios **y** solicitudes, el director ejecutivo remitirá la solicitud y cualquier solicitud de reconsideración o de audiencia de caso contencioso a los Comisionados de la TCEQ para su consideración en una reunión programada de la Comisión.

La Comisión solo podrá conceder una solicitud de audiencia contenciosa sobre cuestiones que el solicitante haya planteado en sus comentarios oportunos y que no hayan sido retiradas posteriormente. **Si se concede la audiencia, el tema de la misma se limitará a cuestiones de hecho controvertidas o cuestiones mixtas de hecho y de derecho relacionadas con problemas relevantes y sustanciales de calidad del agua planteados durante el periodo de comentarios. La TCEQ podrá resolver una solicitud de renovación de un permiso de descarga de aguas residuales sin ofrecer la oportunidad de una audiencia contenciosa si se cumplen ciertos criterios.**

ACCIÓN DEL DIRECTOR EJECUTIVO. El director ejecutivo puede emitir la aprobación final de la solicitud, salvo que se presente una solicitud de audiencia contenciosa o de reconsideración dentro del plazo establecido. Si se presenta una solicitud de audiencia o de reconsideración dentro del plazo establecido, el director ejecutivo no emitirá la aprobación final del permiso y remitirá la solicitud y la petición a los Comisionados de la TCEQ para su consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si envía comentarios públicos, una solicitud de audiencia contenciosa o una solicitud de reconsideración de la decisión del director ejecutivo, se le añadirá a la lista de correo de esta solicitud específica para recibir futuros avisos públicos enviados por la Oficina del Secretario Principal. Además, puede solicitar su inclusión en: (1) la lista de correo permanente para un solicitante específico con su nombre y número de permiso; y/o (2) la lista de correo de un condado específico. Si desea figurar en la lista de correo permanente y/o en la lista de correo del condado, especifique claramente a cuál o cuáles listas desea incluir y envíe su solicitud a la Oficina del Secretario Principal de la TCEQ a la dirección que figura a continuación.

Todos los comentarios públicos escritos y las solicitudes de reunión pública deben enviarse a la Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente a https://www.tceq.texas.gov/goto/comment dentro de los 30 días a partir de la fecha de publicación de este aviso en el periódico.

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 al TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en 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 Hillsboro a la dirección indicada arriba o llamando a Ms. Susan Hilton, PE, Project Manager / MRB Group al 254-771-2054.

Fecha de emisión 20 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 Hillsboro

PERMIT NUMBER (If new, leave blank): WQ00 10630001

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

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

Check/Money Order Amount: $2015.00

Name Printed on Check: City of Hillsboro

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. **For existing permits**:

Permit Number: WQ00 10630001

EPA I.D. (TPDES only): TX 0023108

Expiration Date: 9/10/2024

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

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

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

City of Hillsboro

(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: 600514228

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: Johnson, M. Scott

Title: Mayor Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Ms. Last Name, First Name: Henderson, Megan

Title: City Manager Credential: Click to enter text.

Organization Name: City of Hillsboro

Mailing Address: P.O Box 568 City, State, Zip Code: Hillsboro, TX 76645

Phone No.: 254-582-3271 E-mail Address: mhenderson@hillsborotx.org

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Ms. Last Name, First Name: Hilton, Susan

Title: Project Manager Credential: P.E.

Organization Name: MRB Group

Mailing Address: 303 W. Calhoun Ave. City, State, Zip Code: Temple, TX 76501

Phone No.: 254-771-2054 E-mail Address: susan.hilton@mrbgroup.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Ms. Last Name, First Name: Hilton, Susan

Title: Project Manager Credential: P.E.

Organization Name: MRB Group

Mailing Address: 303 W. Calhoun Ave. City, State, Zip Code: Temple, TX 76501

Phone No.: 254-771-2054 E-mail Address: susan.hilton@mrbgroup.com

B. Prefix: Ms. Last Name, First Name: Henderson, Megan

Title: City Manager Credential: Click to enter text.

Organization Name: City of Hillsboro

Mailing Address: P.O Box 568 City, State, Zip Code: Hillsboro, TX 76645

Phone No.: 254-582-3271 E-mail Address: mhenderson@hillsborotx.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: Ms. Last Name, First Name: Henderson, Megan

Title: City Manager Credential: Click to enter text.

Organization Name: City of Hillsboro

Mailing Address: P.O Box 568 City, State, Zip Code: Temple, TX 76645

Phone No.: 254-582-3271 E-mail Address: mhenderson@hillsborotx.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: Dieterich, Terry

Title: Plant Superintendent Credential: Click to enter text.

Organization Name: City of Hillsboro

Mailing Address: P.O Box 568 City, State, Zip Code: Hillsboro, TX 76645

Phone No.: 254-582-3838 E-mail Address: tdieterich@hillsborotx.org

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Hilton, Susan

Title: Project Manager Credential: P.E.

Organization Name: MRB Group

Mailing Address: 303 W. Calhoun Avenue City, State, Zip Code: Temple, TX 76501

Phone No.: 254-771-2054 E-mail Address: susan.hilton@mrbgroup.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms. Last Name, First Name: Hilton, Susan

Title:Project Manager Credential: P.E.

Organization Name: MRB Group

Mailing Address: 303 W. Calhoun Avenue City, State, Zip Code: Temple, TX 76501

Phone No.: 254-771-2054 E-mail Address: susan.hilton@mrbgroup.com

D. Public Viewing Information

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

Public building name: City of Hillsboro

Location within the building: Administrative Offices

Physical Address of Building: 214 E. Elm St.

City: Hillsboro County: Hill

Contact (Last Name, First Name): Henderson, Megan

Phone No.: 254-582-3271 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Plain Language Summary Template

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

Attachment: B

G. Public Involvement Plan Form

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

Attachment: 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** 102844180

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):

City of Hillsboro Wastewater Treatment Facility

C. Owner of treatment facility: City of Hillsboro

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

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

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

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

Organization Name: City of Hillsboro

Mailing Address: P.O Box 568 City, State, Zip Code: Hillsboro, TX 76645

Phone No.: 254-582-3271 E-mail Address: mhenderson@hillsborotx.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: Click to enter text. Last Name, First Name: Click to enter text.

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

Organization Name: Click to enter text.

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

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

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

Attachment: N/A

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

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: 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:

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Hillsboro

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

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:

Click to enter text.

B. City nearest the disposal site:

C. County in which the disposal site is located:

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

Click to enter text.

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: Core Data Form

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010630001

Applicant: City of Hillsboro

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): M. Scott Johnson

Signatory title: Mayor

Signature:_____Date:_____

(Use blue ink)

Subscribed and Sworn to before me by the said_____

on this_____day of_____, 20_____.

My commission expires on the_____day of_____, 20_____.

_____

Notary Public *[SEAL]*

_____

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: D

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- **Do Not mail this form with the application form.**
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP **Waste Permit No:** WQ0010630001

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: Click to enter text.
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: City of Hillsboro
5. APPLICATION INFORMATION

   Name of Project or Site: City of Hillsboro Wastewater Treatment Facility

   Physical Address of Project or Site: 600 Parham Street, Hillsboro, TX 76645

   If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.

Staple Check or Money Order in This Space

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): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

B. Interim II Phase

Design Flow (MGD): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 1.81

2-Hr Peak Flow (MGD): 5.29

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 10/01/2004

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**.

Type: Activated Sludge with nitrification-denitrification – Oxidation Ditch Treatment Units
Include: Bar Screen, Grit Removal, Oxidation Ditch, Clarifier, Chlorination, De-chlorination, Sludge Aeration

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)
Mechanical Fine Screen	1	2.5'x2'x5'
Manual Bar Screen	1	2.5'x2'x5'
Grit Chamber	1	12'x12'
Oxidation Ditch	3	6'x11'x550'
Clarifiers	2	65' diameter x 12' depth
Chlorine Contact Unit	2	9'x22.5'x45'
De-chlorination Chamber	1	8'x5.3'x19.3'
Aerated Sludge Basin	1	12'x36'x36'

C. Process Flow Diagram

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

Attachment: E

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

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

- Latitude: 31.999458
- Longitude: -97.141708

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: Click to enter text.
- Longitude: Click to enter text.

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: F

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

City of Hillsboro

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
City of Hillsboro	City of Hillsboro	Publicly Owned	8,550
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: 12/01/1998

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

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

Click to enter text.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. Grease and decanted liquid disposal

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

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

Click to enter text.

E. Stormwater management

1. Applicability

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

2. MSGP coverage

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

☐ Yes ☒ No

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

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

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

☐ Yes ☒ No

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

Click to enter text.

4. *Existing coverage in individual permit*

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

☐ Yes ☒ No

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

Click to enter text.

5. *Zero stormwater discharge*

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

☒ Yes ☐ No

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

Click to enter text.

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

6. *Request for coverage in individual permit*

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

☐ Yes ☒ No

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	3.0	3.0	1	Grab	3/12/2024 10:00am
Total Suspended Solids, mg/l	11	11	1	Grab	3/12/2024 10:00am
Ammonia Nitrogen, mg/l	2.23	2.23	1	Grab	3/12/2024 10:00am
Nitrate Nitrogen, mg/l	2.75	2.75	1	Grab	3/12/2024 10:00am
Total Kjeldahl Nitrogen, mg/l	5.00	5.00	1	Grab	3/12/2024 10:00am
Sulfate, mg/l	129	129	1	Grab	3/12/2024 10:00am
Chloride, mg/l	71.9	71.9	1	Grab	3/12/2024 10:00am
Total Phosphorus, mg/l	<0.40	<0.40	1	Grab	3/12/2024 10:00am
pH, standard units	6.8	6.8	1	Grab	3/12/2024 10:00am
Dissolved Oxygen*, mg/l	6.1	6.1	1	Grab	3/12/2024 10:00am
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater	125	125	1	Grab	3/12/2024 10:00am
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l	470	470	1	Grab	3/12/2024 10:00am
Electrical Conductivity, µmohs/cm, †	763	763	1	Grab	3/12/2024 10:00am
Oil & Grease, mg/l	<5.0	<5.0	1	Grab	3/12/2024 10:00am
Alkalinity ($CaCO_3$)*, mg/l	133	133	1	Grab	3/12/2024 10:00am

*TPDES permits only
†TLAP permits only

Table 1.0(3) – Pollutant Analysis for Water Treatment Facilities

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Terry Dieterich

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

Facility Operator's License Number: WW0014896

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☒ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation

☐ Gamma Ray Irradiation

☐ Pasteurization

☐ Preliminary Operation (e.g. grinding, de-gritting, blending)

☒ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)

☐ Sludge Lagoon

☐ Temporary Storage (< 2 years)

☐ Long Term Storage (>= 2 years)

☐ Methane or Biogas Recovery

☐ Other Treatment Process: Click to enter text.

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	Off-site Third-Party Handler or Preparer	Bulk		Class B: PSRP Aerobic Digestion	Option 7: Stabilized sludge is >=75% solids
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: Itasca Landfill

TCEQ permit or registration number: RN100213412

County where disposal site is located: Hill

E. Transportation method

Method of transportation (truck, train, pipe, other): Roll-Off Containers

Name of the hauler: Allied Waste Services of Itasca, Republic Services of Itasca

Hauler registration number: RN106873326

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

  Attachment: Click to enter text.

- Federal Emergency Management Map:

  Attachment: Click to enter text.

- Site map:

  Attachment: Click to enter text.

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

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

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

  Attachment: Click to enter text.

- Procedures to prevent the occurrence of nuisance conditions

Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: 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: Megan Henderson

Title: City Manager

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☒ No

If **no**, proceed it Section 2. **If yes**, provide the following:

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

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

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

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

If **no**, proceed to Section 3. **If yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: Click to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

Is the discharge directly into (or within 300 feet of) a classified segment?

☐ Yes ☒ No

If yes, this Worksheet is complete.

If no, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: Unnamed Tributary of Cobb Creek

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☒ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

None

D. Downstream characteristics

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

☐ Yes ☒ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Water body dry other than effluent discharge from the water treatment plant

Date and time of observation: 02/25/2013 1:00 pm

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

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

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☒ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: Click to enter text.

C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- ☒ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- ☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- ☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☒ Composite ☐

Date and time sample(s) collected: 3/12/2024 10:00am

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	<0.002	<0.002	1	0.01
Aluminum	0.0892	0.0892	1	2.5
Anthracene	<10	<10	1	10
Antimony	0.0009	0.0009	1	5
Arsenic	0.0010	0.0010	1	0.5
Barium	0.0489	0.0489	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	<10	<10	1	10
Bromoform	<10	<10	1	10
Cadmium	<0.0005	<0.0005	1	1
Carbon Tetrachloride	<2	<2	1	2
Carbaryl	<5	<5	1	5
Chlordane*	<0.103	<0.103	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	<10	<10	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	0.0005	0.0005	1	3
Chromium (Tri) **(*1)**	<0.0005	<0.0005	1	N/A
Chromium (Hex)	<0.003	<0.003	1	3
Copper	0.0075	0.0075	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)**	<0.005	<0.005	1	10
4,4'- DDD	<0.02	<0.02	1	0.1
4,4'- DDE	<0.02	<0.02	1	0.1
4,4'- DDT	<0.004	<0.004	1	0.02
2,4-D	<0.20	<0.20	1	0.7
Demeton (O and S)	<0.0509	<0.0509	1	0.20
Diazinon	<0.0509	<0.0509	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
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropene	<5	<5	1	10
Dicofol	<0.20	<0.20	1	1
Dieldrin	<0.004	<0.004	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)	<0.002	<0.002	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.004	<0.004	1	0.02
Endosulfan Sulfate	<0.02	<0.02	1	0.1
Endrin	<0.004	<0.004	1	0.02
Ethylbenzene	<10	<10	1	10
Fluoride				500
Guthion	<0.0509	<0.0509	1	0.1
Heptachlor	<0.00446	<0.00446	1	0.01
Heptachlor Epoxide	<0.002	<0.002	1	0.01
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclohexane (alpha)	<0.01	<0.01	1	0.05
Hexachlorocyclohexane (beta)	<0.01	<0.01	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.01	<0.01	1	0.05
Hexachlorocyclopentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Hexachlorophene	<1.26	<1.26	1	10
Lead	0.0005	0.0005	1	0.5
Malathion	<0.0509	<0.0509	1	0.1
Mercury	0.00271	0.00271	1	0.005
Methoxychlor	<0.02	<0.02	1	2
Methyl Ethyl Ketone	<50	<50	1	50
Mirex	<0.02	<0.02	1	0.02
Nickel	0.0025	0.0025	1	2
Nitrate-Nitrogen	2.75	2.75	1	100
Nitrobenzene	<10	<10	1	10
N-Nitrosodiethylamine	<20	<20	1	20
N-Nitroso-di-n-Butylamine	<20	<20	1	20
Nonylphenol	<5	<5	1	333
Parathion (ethyl)	<0.0509	<0.0509	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)**	<0.04	<0.04	1	0.2
Pyridine	<20	<20	1	20
Selenium	<0.0005	<0.0005	1	5
Silver	<0.0005	<0.0005	1	0.5
1,2,4,5-Tetrachlorobenzene	<10	<10	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Thallium	<0.0005	<0.0005	1	0.5
Toluene	<10	<10	1	10
Toxaphene	<0.0770	<0.0770	1	0.3
2,4,5-TP (Silvex)	<0.2	<0.2	1	0.3
Tributyltin (see instructions for explanation)				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	<10	<10	1	50
TTHM (Total Trihalomethanes)	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10
Zinc	0.0609	0.0609	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: 3/12/2024 10:00 am

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

Pollutant	**AVG Effluent Conc. (µg/l)**	**MAX Effluent Conc. (µg/l)**	**Number of Samples**	**MAL (µg/l)**
Antimony	0.0009	0.0009	1	5
Arsenic	0.0010	0.0010	1	0.5
Beryllium	<0.0005	<0.0005	1	0.5
Cadmium	<0.0005	<0.0005	1	1
Chromium (Total)	0.0005	0.0005	1	3
Chromium (Hex)	<0.003	<0.003	1	3
Chromium (Tri) **(*1)**	<0.0005	<0.0005	1	N/A
Copper	0.0005	0.0005	1	2
Lead	0.0005	0.0005	1	0.5
Mercury	0.00271	0.00271	1	0.005
Nickel	0.0025	0.0025	1	2
Selenium	<00005	<00005	1	5
Silver	<0.0005	<0.0005	1	0.5
Thallium	<0.0005	<0.0005	1	0.5
Zinc	0.0609	0.0609	1	5
Cyanide **(*2)**	<0.005	<0.005	1	10
Phenols, Total	<10	<10	1	10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<50	<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	<10	<10	1	10
Chloroethane	<50	<50	1	50
2-Chloroethylvinyl Ether	<10	<10	1	10
Chloroform	<10	<10	1	10
Dichlorobromomethane [Bromodichloromethane]	<10	<10	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]	<5	<5	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	<10	<10	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)	<10	<10	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	<5	<5	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	<0.002	<0.002	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.009	<0.009	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.018	<0.018	1	0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)	<0.25	<0.25	1	0.05
Chlordane	<0.103	<0.103	1	0.2
4,4-DDT	<0.02	<0.02	1	0.02
4,4-DDE	<0.02	<0.02	1	0.1
4,4,-DDD	<0.004	<0.004	1	0.1
Dieldrin	<0.004	<0.004	1	0.02
Endosulfan I (alpha)	<0.002	<0.002	1	0.01
Endosulfan II (beta)	<0.004	<0.004	1	0.02
Endosulfan Sulfate	<0.02	<0.02	1	0.1
Endrin	<0.004	<0.004	1	0.02
Endrin Aldehyde	<0.02	<0.02	1	0.1
Heptachlor	<0.00446	<0.00446	1	0.01
Heptachlor Epoxide	<0.002	<0.002	1	0.01
PCB-1242	<0.04	<0.04	1	0.2
PCB-1254	<0.04	<0.04	1	0.2
PCB-1221	<0.04	<0.04	1	0.2
PCB-1232	<0.04	<0.04	1	0.2
PCB-1248	<0.04	<0.04	1	0.2
PCB-1260	<0.04	<0.04	1	0.2
PCB-1016	<0.04	<0.04	1	0.2
Toxaphene	<0.077	<0.077	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.

Click to enter text.

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☒ No

If **yes**, provide a brief description of the conditions for its presence.

Click to enter text.

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click to enter text.

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

☐ Yes ☒ No

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

Click to enter text.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☐ No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☐ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click to enter text.

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

A. General information

Company Name: McGill Airflow Corporation

SIC Code: 3444

Contact name: Matthew Lynch

Address: 206 Pecos Street

City, State, and Zip Code: Hillsboro, TX 76654

Telephone number: 254-582-5392

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

No wastewater discharges into the system.

C. Product and service information

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

HVAC sheet metal and ductwork

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 *i*nstructions?

☐ Yes ☒ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☒ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☒ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

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

A. General information

Company Name: SRM Concrete

SIC Code: 3273

Contact name: Click to enter text.

Address: 119 Industrial Loop

City, State, and Zip Code: Hillsboro, TX 76654

Telephone number:

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

No wastewater discharges into the system.

C. Product and service information

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

Concrete

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 *i*nstructions?

☐ Yes ☒ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☒ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☒ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

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

A. General information

Company Name: Clayton Homes

SIC Code: 2451

Contact name: Click to enter text.

Address: 216 Pecos Street

City, State, and Zip Code: Hillsboro, TX 76654

Telephone number: 254-480-0100

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

No process wastewater discharges into the system.

C. Product and service information

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

Manufactured Homes

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 *i*nstructions?

☐ Yes ☒ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☒ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☒ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

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

A. General information

Company Name: Wisenbaker Building Services

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: 404 Hawkins Street

City, State, and Zip Code: Hillsboro, TX 76654

Telephone number:

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

No process wastewater discharges into the system.

C. Product and service information

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

Home cabinets and countertops

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 *i*nstructions?

☐ Yes ☒ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☒ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☒ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

ATTACHMENT A

CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600514228		**RN 102844180**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 05/30/2024

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

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

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

City of Hillsboro

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
	17460010899	74-600189	041127077

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

12. Number of Employees
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

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

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

15. Mailing Address:

P.O. Box 568

City	Hillsboro	**State**	TX	**ZIP**	76645	**ZIP + 4**	0568

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	tdieterich@hillsborotx.org

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(254) 582-3478		(254) 582-0396

SECTION III: Regulated Entity Information

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

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

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

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

City of Hillsboro Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	600 Parham Street							
	City	Hillsboro	**State**	TX	**ZIP**	76645	**ZIP + 4**	
24. County								

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

25. Description to Physical Location:	Adjacent to George Street approximately 700 feet southwest of the intersection of Parham Street and George Street in Hill County Texas

26. Nearest City	**State**	**Nearest ZIP Code**
Hillsboro	TX	76645

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

27. Latitude (N) In Decimal:	31.999458		**28. Longitude (W) In Decimal:**	97.141708	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
31	59	58.05	97	8	30.15

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	0000	221320	221320

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

Municipal government Wastewater Treatmen

34. Mailing Address:	**P.O. Box 568**							
	City	**Hillsboro**	**State**	**TX**	**ZIP**	**76645**	**ZIP + 4**	**568**
35. E-Mail Address:	**tdieterich@hillsborotx.org**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(254) 582-3478		**(254) 582-396**

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	RN102844180			

SECTION IV: Preparer Information

40. Name:	Megan Henderson	**41. Title:**	City Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(254 **)** 582-3271		**(** 254 **)** 582-0112	mhenderson@hillsborotx.org

SECTION V: Authorized Signature

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

Company:	City of Hillsboro	**Job Title:**	City Manager
Name *(In Print):*	Megan Henderson	**Phone:**	**(** 254 **)** 582- **3271**
Signature:		**Date:**	

ATTACHMENT B

PLAIN LANGUAGE SUMMARY
(TCEQ FORM 20972)

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 Hillsboro ((CN600514228)) operates the City of Hillsboro Wastewater Treatment Plant (RN102844180), a wastewater treatment facility. The facility is located at 600 Parham Street, in Hillsboro, Hill County, Texas 76645. This application is for the renewal to discharge an annual average flow of 1,810,000 gallons per day (1.81 MGD) of treated domestic wastewater via Outfall 001..

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N) and Escherichia coli. Domestic wastewater is treated by an activated sludge process with nitrification and denitrification in an Oxidation Ditch.

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

AGUAS RESIDUALES DOMESTICAS **/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 Hillsboro ((CN600514228)) opera la Planta de Tratamiento de Aquas Residuales de la Ciudad de Hillsboro (RN102844180), una instalación de tratamiento de aguas residuales. La instalación está ubicada en 600 Parham Street, en Hillsboro, Condado de Hill, Texas 76645. Esta solicitud es para la renovación para descargar un flujo prmedio anual de 1,810,000 galones por día (1.81 MGD) de aguas rediduales domésticas tratadas a través del Emisario 001..Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco días, sólidos suspendidos totals (SST), nitrógeno ammoniacal (NH3-N) y Escherichia coli. Las aguas residuals domésticas . estará tratado por un proceso de lodos activados con nitrificación en Zanja de Oxidación.

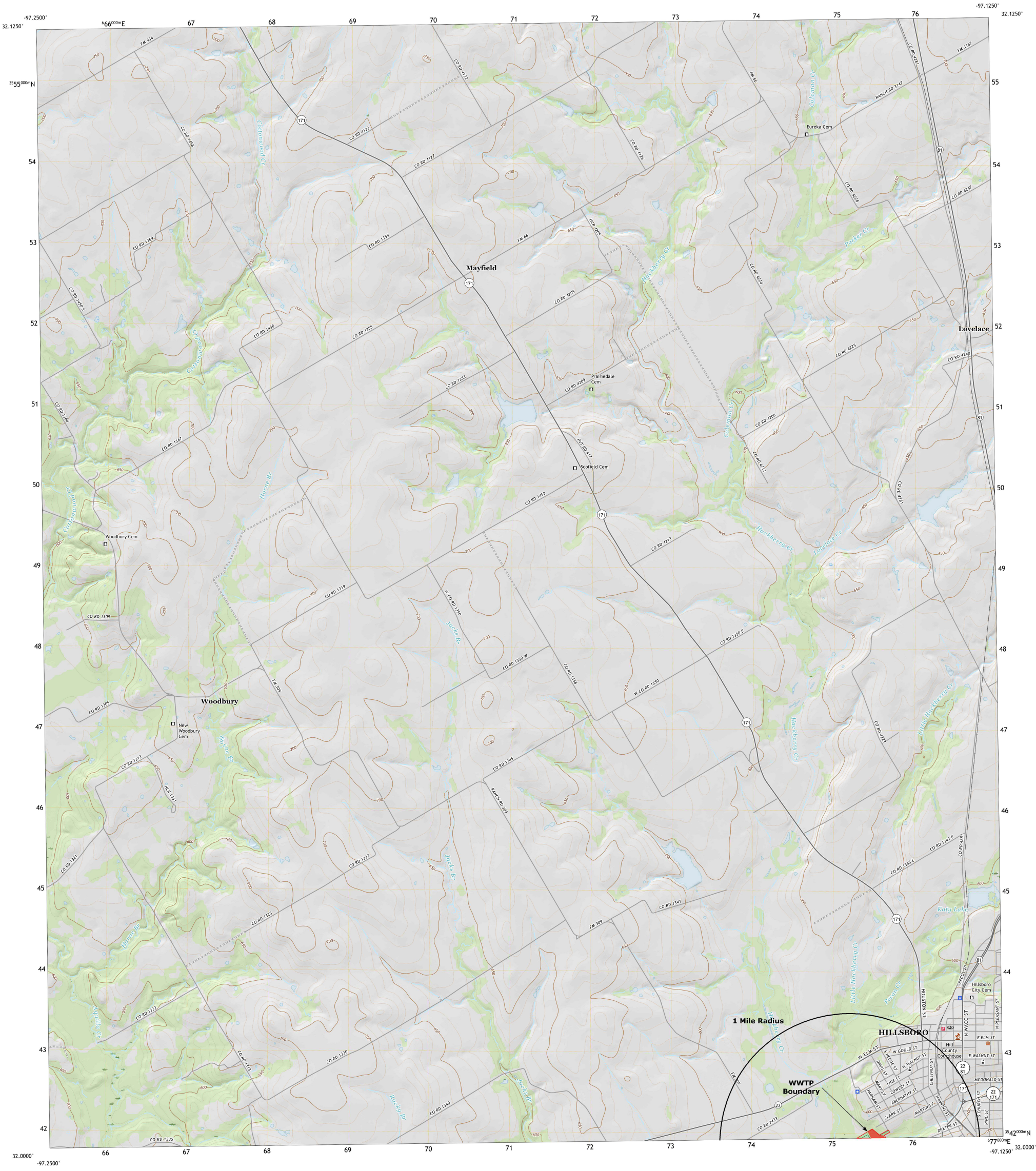
ATTACHMENT C

USGS TOPOGRAPHIC MAP

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

The National Map US Topo

HILLSBORO WEST QUADRANGLE
TEXAS - HILL COUNTY
7.5-MINUTE SERIES



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

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

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2018
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2003 - 2018
Contours.....National Elevation Dataset, 2004
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
3°24'
60 MILS
0°58'
17 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PA
Grid Zone Designation
14S

SCALE 1:24 000

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

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Covington
2 Itasca
3 Files Valley
4 Blanton
5 Hillsboro East
6 Whitney
7 Peoria
8 Abbott

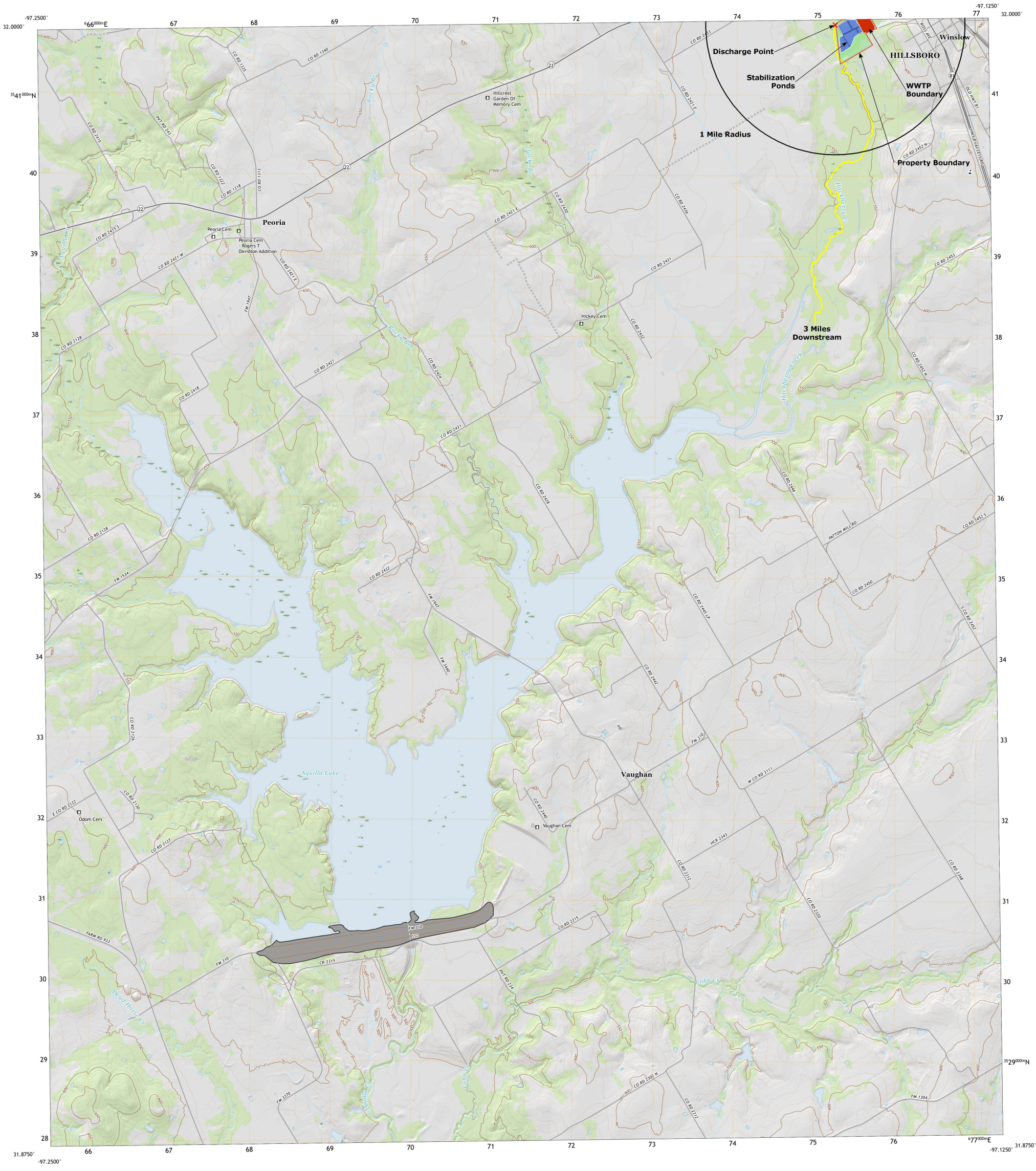
ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

HILLSBORO WEST, TX
2022

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

The National Map US Topo

PEORIA QUADRANGLE
TEXAS - HILL COUNTY
7.5-MINUTE SERIES



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Contours.....National Elevation Dataset, 2017
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
3°24' 60 MILS
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UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PA
Grid Zone Designation

SCALE 1:24 000

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

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TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Blanton
2 Hillsboro West
3 Hillsboro East
4 Whitney
5 Abbott
6 Smiths Bend
7 Aquilla
8 West

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

PEORIA, TX
2022

ATTACHMENT D

SUPPLEMENTAL PERMIT INFORMATION 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 Hillsboro

   Permit No. WQ00 10630001 EPA ID No. TX 0023108

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

   600 Parham Street, Adjacent to George Street, approximately 700 feet southwest of the intersection of Parham Street and George Street in Hillsboro, Hill County, Texas.

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): Ms.

First and Last Name: Megan Henderson

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: City Manager

Mailing Address: P.O. Box 568, 214 East Street

City, State, Zip Code: Hillsboro, X 76645

Phone No.: 254-582-3271 Ext.: Click here to enter text. Fax No.: 254-582-0112

E-mail Address: mhenderson@hillsborotx.org

2. List the county in which the facility is located: Hill
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.

To and Unnamed drainage ditch, thence to Little Hackberry Creek; thence to Hackberry Creek; thence to Aquilla Reservoir in Segment No. 1254 of the Brazos River Basin.

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

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 wastewater treatment plant site

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

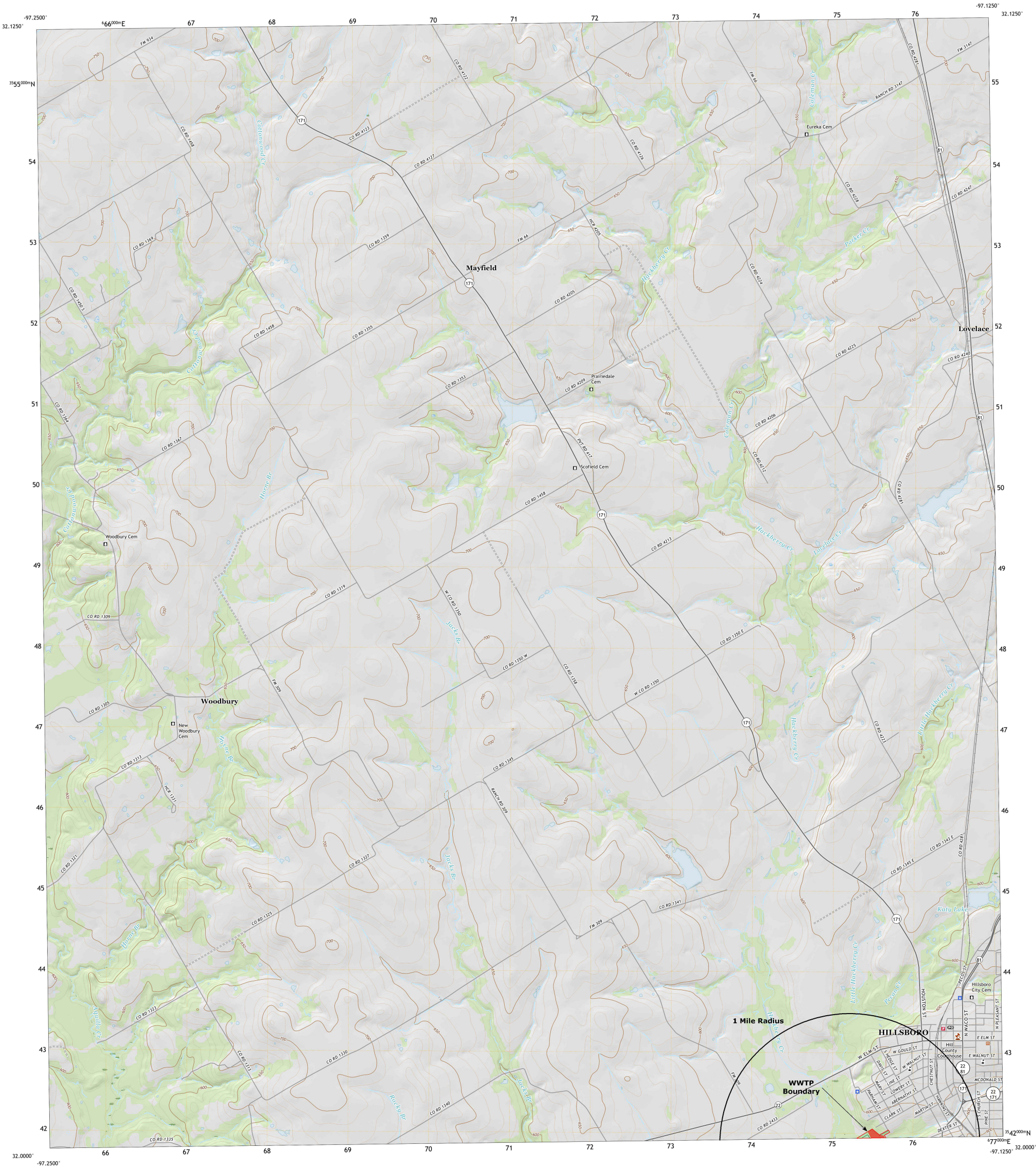
4. Provide a brief history of the property, and name of the architect/builder, if known.

N/A

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

The National Map US Topo

HILLSBORO WEST QUADRANGLE
TEXAS - HILL COUNTY
7.5-MINUTE SERIES



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U.S. National Grid
100,000 - m Square ID
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SCALE 1:24 000

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6	7	8

ADJOINING QUADRANGLES
1 Covington
2 Itasca
3 Files Valley
4 Blanton
5 Hillsboro East
6 Whitney
7 Peoria
8 Abbott

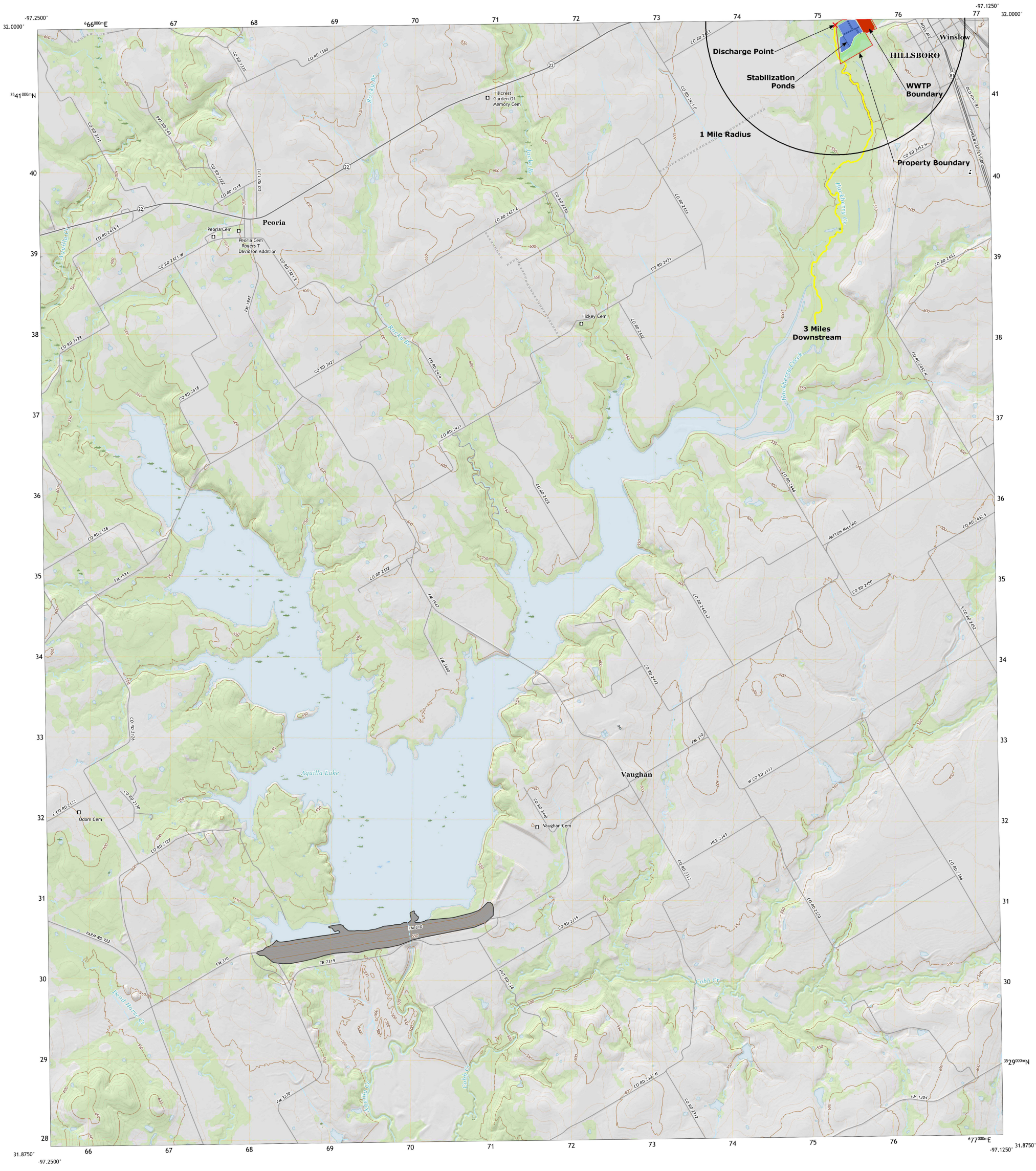
ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

HILLSBORO WEST, TX
2022

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

The National Map US Topo

PEORIA QUADRANGLE
TEXAS - HILL COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey

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

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

Imagery.....NAIP, September 2016 - November 2016
Roads..... U.S. Census Bureau, 2015 - 2018
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2003 - 2018
Contours.....National Elevation Dataset, 2017
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
3°24' 60 MILS
0°58' 17 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PA
Grid Zone Designation

SCALE 1:24 000

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

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

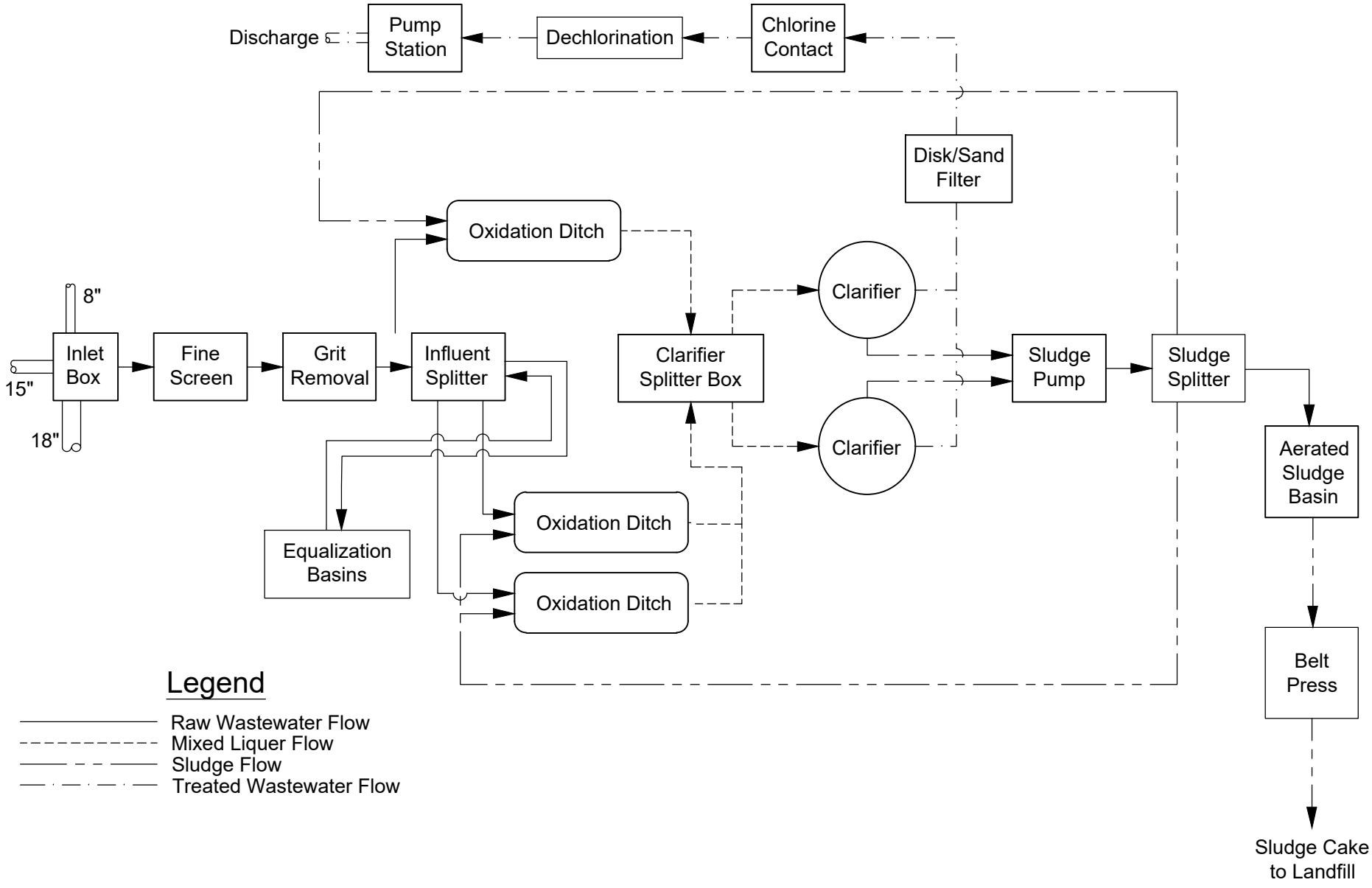
ADJOINING QUADRANGLES
1 Blanton
2 Hillsboro West
3 Hillsboro East
4 Whitney
5 Abbott
6 Smiths Bend
7 Aquilla
8 West

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

PEORIA, TX
2022

ATTACHMENT E

FLOW DIAGRAM

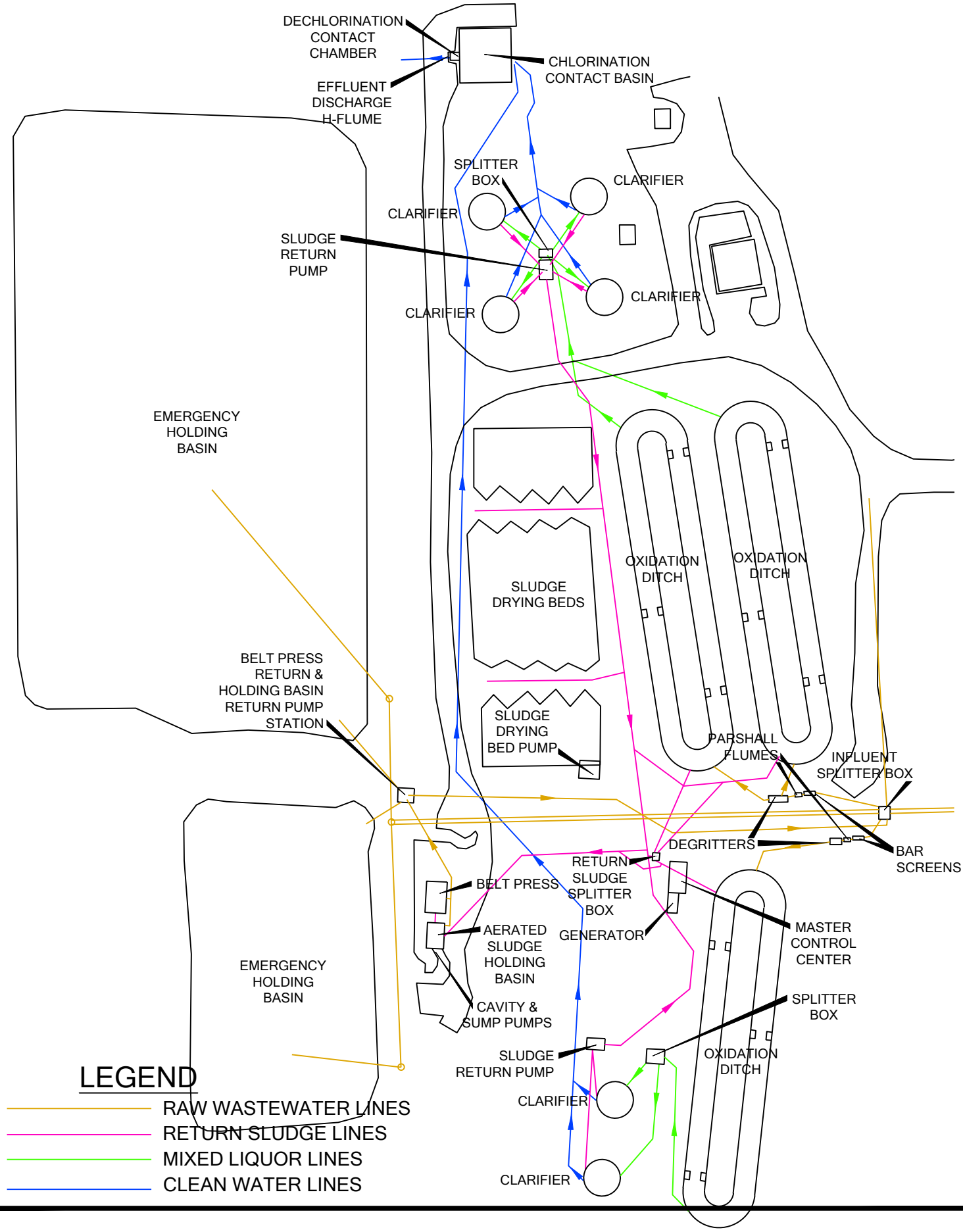


MRB group

WWTP SCHEMATIC FLOW DIAGRAM
EXISTING FACILITY 1.81 MGD
HILLSBORO, TEXAS

ATTACHMENT F

SITE PLAN



MRB group

Site Plan

ATTACHMENT G

ANALYTICAL REPORTS

BIO CHEM LAB, INC. **PHONE: 254.829.8001** **FAX: 254.829.8013**
4751 TOKIO RD .WEST, TX 76691

ANALYTICAL REPORT

CLIENT IDENTIFICATION INFORMATION:

CITY OF HILLSBORO
PO BOX 568
HILLSBORO, TX 76645
CLIENT CONTACT: TERRY DIETERICH

MARCH 2024 - HILLSBORO	
REPORT ID:	HIL- 061124
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	6.11.24
PERMIT RENEWAL	

FIELD DATA / SAMPLE DESCRIPTION

		EFFLUENT
Collection Point		
Date/ Time Collected		3.12.24 / 10:00
Date/ Time received by Lab		3.12.24 / 14:00
Laboratory Sample ID		6221-24
Sampling Description/Procedure		BCL.SOP.119
Sample Type		Grab
Sample Matrix		Aqueous-NPW
Collector		GF
pH, SU	SM 4500-H+B	**6.8**
Dissolved Oxygen, mg/L	SM 4500 O G	**6.1**
Temperature, C		**21.2**
Date / Time Analyzed	(Field Analysis)	3.12.24 / 10:00
Analyst Initials		GF

PARAMETER / UNIT / METHOD

$CBOD_5$, mg/L	SM 5210 B	**3.**
Reporting Limit, mg/L		2.
Dilution Factor		1
Date / Time Analyzed		3.13.24 / 10:30
Analyst Initials		LD
TSS, mg/L	SM 2540 D	**11.**
Reporting Limit, mg/L		2.
Dilution Factor		1
Date / Time Analyzed		3.13.24 / 09:20
Analyst Initials		MH
Sulfate, mg/L	EPA 300.0	**129.**
Reporting Limit, mg/L		5.00
Dilution Factor		10
Date / Time Analyzed		3.13.24 / 16:11
Analyst Initials		AJ
Chloride, mg/L	EPA 300.0	**71.9**
Reporting Limit, mg/L		5.00
Dilution Factor		10
Date / Time Analyzed		3.13.24 / 16:11
Analyst Initials		AJ
TDS, mg/L	SM 2540 C	**Q 470.**
Reporting Limit, mg/L		20.
Dilution Factor		1
Date / Time Analyzed		3.18.24 / 09:30
Analyst Initials		ARJ
Electrical Conductivity, µmhos @ 25°C	SM 2510 B	**763.**
Reporting Limit, µmhos @ 25°C		10.
Dilution Factor		4
Date Analyzed		3.22.24 / 11:50
Analyst Initials		ARJ / JLJ
Total Alkalinity, mg/L	SM 2320 B	**133.**
Reporting Limit, mg/L		10.0
Dilution Factor		1
Date / Time Analyzed		3.22.24 / 08:30
Analyst Initials		ARJ
NO_3N, mg/L (NITRATE-N)	EPA 300.0	**2.75**
Reporting Limit, mg/L		0.10
Dilution Factor		10
Date / Time Analyzed		3.13.24 / 16:11
Analyst Initials		AJ

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MARCH 2024 - HILLSBORO	
REPORT ID:	HIL- 061124
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	
PERMIT RENEWAL	

FIELD DATA / SAMPLE DESCRIPTION

	EFFLUENT
Collection Point	
Date/ Time Collected	3.12.24 / 10:00
Date/ Time received by Lab	3.12.24 / 14:00
Laboratory Sample ID	6221-24
Sampling Description/Procedure	BCL.SOP.119
Sample Type	Grab
Sample Matrix	Aqueous-NPW
Collector	GF

PARAMETER / UNIT / METHOD

NH_3N, mg/L	SM 4500 NH_3 B, D	**2.23**
Reporting Limit, mg/L		0.10
Dilution Factor		1
Date / Time Analyzed		3.18.24 / 20:40
Analyst Initials		SV
TKN, mg/L	SM4500 N_{org} B	**5.00**
Reporting Limit, mg/L		1.00
Dilution Factor		2
Date / Time Analyzed		3.18.24 / 18:40
Analyst Initials		SV
Total Phosphorus, mg/L	SM 4500 P B.5, E	**L**
Reporting Limit, mg/L		0.40
Dilution Factor		5
Date / Time Analyzed		
Analyst Initials		
E. coli MPN /100ml	SM 9223 B	**125.**
Reporting Limit, CFU/100ml		1.
Dilution Factor		1
Date / Time Analyzed		3.12.24 / 16:10
Analyst Initials		MH
Oil and Grease, mg/L	EPA 1664 A	**< 5.0**
Reporting Limit, mg/L		5.0
Dilution Factor		1
Date / Time Analyzed		3.18.24 / 10:00
Analyst Initials		CD
Hexavalent Chromium, mg/L	SM 3500 Cr-B	**< 0.003**
Reporting Limit, mg/L		0.003
Dilution Factor		1
Date / Time Analyzed		3.14.24 / 15:30
Analyst Initials		LD
Trivalent Chromium, mg/L	Calc.	**< 0.0005**

TOTAL METALS ANALYSIS:

PARAMETER	METHOD	REPORTING LIMIT	DILUTION FACTOR	RESULT (mg/L)	DATE/TIME ANALYZED	ANALYST	QUALIFIER
Aluminum	EPA-200.8	0.0050	1	**0.0892**	3.16.24 / 02:58	JLJ	
Antimony	EPA-200.8	0.0005	1	**0.0009**	3.16.24 / 02:58	JLJ	
Arsenic	EPA-200.8	0.0005	1	**0.0010**	6.7.24 / 02:41	JLJ	
Barium	EPA-200.8	0.0005	1	**0.0489**	6.7.24 / 02:41	JLJ	
Beryllium	EPA-200.8	0.0005	1	**< 0.0005**	3.16.24 / 02:58	JLJ	
Cadmium	EPA-200.8	0.0005	1	**< 0.0005**	6.7.24 / 02:41	JLJ	
Chromium	EPA-200.8	0.0005	1	**0.0005**	3.16.24 / 02:58	JLJ	
Copper	EPA-200.8	0.0005	1	**0.0075**	3.16.24 / 02:58	JLJ	
Lead	EPA-200.8	0.0005	1	**0.0005**	3.16.24 / 02:58	JLJ	
Magnesium	EPA-200.8	0.05	1	**4.44**	3.16.24 / 02:58	JLJ	
Nickel	EPA-200.8	0.0005	1	**0.0025**	3.16.24 / 02:58	JLJ	
Silver	EPA-200.8	0.0005	1	**< 0.0005**	3.16.24 / 02:58	JLJ	
Selenium	EPA-200.8	0.0005	1	**< 0.0005**	6.7.24 / 02:41	JLJ	
Thallium	EPA-200.8	0.0005	1	**< 0.0005**	3.16.24 / 02:58	JLJ	
Zinc	EPA-200.8	0.0050	1	**0.0609**	3.16.24 / 02:58	JLJ	
Date Digested	3.13.24						
Time Digested	08:15						
Analyst Initials	JLJ						

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HILLSBORO, TX 76645
CLIENT CONTACT: TERRY DIETERICH

MARCH 2024 - HILLSBORO	
REPORT ID:	HIL- 061124
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	6.11.24

QC SUMMARY

QC ANALYTICAL DATA

CBOD

SETUP DATE	SETUP ID	BATCH ID	
3.13.24	B-031324-10	B-031324-10-03	
DUPLICATE	**RESULT 1**	**RESULT 2**	**% DEV**
6188-24	138	149	3.8
BOD-BLANK	**CBOD-BLANK**	**LCS -GGA**	**LCS-CGGA**
0.08	0.08	206	199

TSS

SETUP DATE	SETUP ID	BATCH ID	
3.13.24	T-031324-07	T-031324-07-03	
SAMPLE ID:	**RESULT 1**	**RESULT 2**	**% DEV**
6129-24	23.6	24.6	2.1
6146-24	24	23	2.3
BLANK, mg/L	<2	**LCS % REC**	99.6

SULFATE

SETUP DATE	SEQUENCE ID		
3.13.24-3.14.24	IC-031324-07		
SAMPLE ID	**RESULT 1**	**RESULT 2**	**RPD**
6221-24	128.7	131.3	2.0
SPIKE ID:	**RESULT 1**	**RESULT 2**	**% REC**
6221-24	128.7	211.4	82.8
IPCS-1 % REC:	97.3	**IPCS-2 % REC:**	108.6
LCS % REC:	100.3	**LCSD % REC:**	104.0
BLANK, mg/L:	<0.50		

CHLORIDE

SETUP DATE	SEQUENCE ID		
3.13.24-3.14.24	IC-031324-07		
SAMPLE ID	**RESULT 1**	**RESULT 2**	**RPD**
6221-24	71.9	73.2	1.8
SPIKE ID:	**RESULT 1**	**RESULT 2**	**% REC**
6221-24	71.9	174.0	102.1
IPCS-1 % REC:	99.3	**IPCS-2 % REC:**	109.9
LCS % REC:	107.5	**LCSD % REC:**	108.8
BLANK, mg/L:	<0.50		

TDS

DATE	SETUP ID	BATCH ID	
3.18.24	DS-031824-03	DS-031824-03-01	
SAMPLE ID:	**RESULT 1**	**RESULT 2**	**% DEV**
6208-24	624	656	2.5
SPIKE ID:	**RESULT 1**	**RESULT 2**	**% REC**
Q3 6441-24	1,616	1,902	**57.2**
BLANK, mg/L	**Q1 26.0**	**LCS, %REC**	95.7

CONDUCTIVITY

SETUP DATE	SETUP ID		
3.22.24	EC-032224-03		
SAMPLE ID	**RESULT 1**	**RESULT 2**	**% DEV**
667-24	307	307	0.0
LCS % REC	100.3	**LCSD % REC**	98.5
LRB, µmhos	<5	**LOQ % REC**	99.7

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ANALYTICAL REPORT

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HILLSBORO, TX 76645
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MARCH 2024 - HILLSBORO	
REPORT ID:	HIL- 061124
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	6.11.24
QC SUMMARY	

QC ANALYTICAL DATA

TOTAL ALKALINITY

SETUP DATE	SETUP ID	BATCH ID	
3.22.24	ALK-032224-03	ALK-032224-03-01	
SAMPLE ID:	**RESULT 1**	**RESULT 2**	**% DEV**
6426-24	250.7	248.8	0.4
SPIKE ID:	**RESULT 1**	**RESULT 2**	**% REC**
6221-24	133.3	226.9	93.5
LRB-BLANK	**LCS, %REC**	**LCSD, %REC**	**LOQ, % REC**
<5	96.0	96.5	99.5

NITRATE AS N

SETUP DATE	SEQUENCE ID		
3.13.24-3.14.24	IC-031324-07		
SAMPLE ID	**RESULT 1**	**RESULT 2**	**RPD**
6221-24	2.8	2.8	0.0
SPIKE ID:	**RESULT 1**	**RESULT 2**	**% REC**
6221-24	2.8	103.7	101.0
IPCS-1 % REC:	97.8	**IPCS-2 % REC:**	102.3
LCS % REC:	103.8	**LCSD % REC:**	104.8
BLANK, mg/L:	<0.01		

NH3N

SETUP DATE:	SETUP ID:	BATCH ID:	
03.18.24	N-031824-11	N-031824-11-01	
SAMPLE ID:	**RESULT 1:**	**RESULT 2:**	**% DEV:**
6450-24	22.6	23.0	1.0
6507-24	71.2	72.4	0.8
SPIKE ID:	**RESULT 1:**	**RESULT 2:**	**% REC:**
6498-24	0.06	1.87	90.5
6498-24	0.06	1.84	89.0
BLANK, mg/L:	**LCS % REC:**	**LCSD % REC:**	
< 0.05	102.2	103.2	

TKN

SETUP DATE	SETUP ID	BATCH ID	
03.18.24	TKN-031824-03	TKN-031824-03-01	
SAMPLE ID:	**RESULT 1:**	**RESULT 2:**	**% DEV**
6205-24	206	179	6.9
6328-24	40.6	38.2	3.1
SPIKE ID:	**RESULT 1:**	**RESULT 2:**	**% REC**
6254-24	40.2	49.2	89.5
6254-24	40.2	49.3	90.5
BLANK, mg/L:		**LCS % REC:**	**LCSD % REC:**
< 0.25		104.2	109.6

E COLI

SETUP DATE	SETUP ID	BATCH ID	
3.12.24	E-031224-07	E-031224-07-01	
DUPLICATE ID:	**RESULT 1 :**	**RESULT 2 :**	**PRECISION**
6145-24	6	13	**QM1 0.31**
6164-24	<2	<2	0.00
BLANK, MPN		**PRECISION RANGE**	
<1		0.0-0.15	

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ANALYTICAL REPORT

CLIENT IDENTIFICATION INFORMATION:

CITY OF HILLSBORO
PO BOX 568
HILLSBORO, TX 76645
CLIENT CONTACT: TERRY DIETERICH

MARCH 2024 - HILLSBORO	
REPORT ID:	HIL- 061124
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	6.11.24

QC SUMMARY

OIL AND GREASE

SETUP DATE	SETUP ID	BATCH ID	
3.18.24	OG-031824-03	OG-031824-03-01	
DUPLICATE ID:	**RESULT 1 :**	**RESULT 2 :**	**% DEV**
734121604	38.2	37.2	1.3
BLANK, mg/L:	**QCS % REC:**	**LCS % REC:**	**LCSD % REC:**
<1.4	---	95.5	93.0

HEXAVALENT CHROMIUM

SETUP DATE	SETUP ID	BATCH ID	
3.14.24	HC-031424-02	HC-031424-02-01	
SAMPLE ID:	**RESULT 1**	**RESULT 2**	**% DEV**
13317	0.049	0.050	0.9
SPIKE ID:	**RESULT 1**	**RESULT 2**	**% REC**
5909-24	0.00	0.052	104.0
5909-24	0.00	0.052	104.0
BLANK, mg/L	**LCS, %REC**	**LCSD, %REC**	
< 0.003	97.7	99.53	

METALS

Batch ID	ICP-031524-05-02		Date Analyzed	3.16.24	MS Sample ID	6156-24				
PARAMETER	Blank	LCS % Rec	LCSD % Rec	LCS %RPD	Reference Sample	Matrix Spike	MS % Rec	Matrix Spike Duplicate	MSD % Rec	Flags
Total Aluminum, mg/L	<0.005	98.9	100.3	1.41	0.1352	0.5333	99.5	0.5348	99.9	
Total Antimony, mg/L	<0.0005	98.7	100.2	1.51	0.001	0.4193	104.6	0.4194	104.6	
Total Beryllium, mg/L	<0.0005	100.3	101.3	0.99	0	0.42	105.0	0.4102	102.6	
Total Chromium, mg/L	<0.0005	102.8	103.2	0.39	0.0007	0.4213	105.2	0.4213	105.2	
Total Copper, mg/L	<0.0005	104.6	105.2	0.57	0.0104	0.4488	109.6	0.4405	107.5	
Total Lead, mg/L	<0.0005	98	97.1	0.92	0.0006	0.4065	101.5	0.399	99.6	
Total Magnesium, mg/L	<0.05	99.7	99.8	0.10	4.5149	45.4483	102.3	45.2149	101.8	
Total Nickel, mg/L	<0.0005	103.5	103.6	0.10	0.0023	0.4292	106.7	0.4258	105.9	
Total Silver, mg/L	<0.0005	96.7	99.4	2.75	0	0.3895	97.4	0.4	100.0	
Total Thallium, mg/L	<0.0005	102.6	102	0.59	0	0.4255	106.4	0.4204	105.1	
Total Zinc, mg/L	<0.005	104.5	104.8	0.29	0.062	0.4941	108.0	0.4889	106.7	

Batch ID	ICP-060724-01-01		Date Analyzed	6.7.24	MS Sample ID	12396-24				
PARAMETER	Blank	LCS % Rec	LCSD % Rec	LCS %RPD	Reference Sample	Matrix Spike	MS % Rec	Matrix Spike Duplicate	MSD % Rec	Flags
Total Arsenic, mg/L	<0.0005	98.9	98.9	0.00	0.0011	0.4091	102.0	0.4121	102.8	
Total Barium, mg/L	<0.0005	102.8	101.2	1.57	0.0524	0.4865	108.5	0.4915	109.8	
Total Cadmium, mg/L	<0.0005	102.1	101.6	0.49	0	0.4303	107.6	0.4271	106.8	
Total Selenium, mg/L	<0.0005	101.5	100.6	0.89	0	0.407	101.8	0.4093	102.3	

ANALYTICAL NOTES, INTERPRETATIONS, METHOD DEVIATIONS OR ENVIRONMENTAL CONDITIONS:

NONE TO REPORT.

STATEMENT OF COMPLIANCE/NON-COMPLIANCE:

The above analytical data was derived from submitted samples that have met all established acceptance criteria, unless otherwise qualified, and are compliant with the laboratory's Quality System. The Director of Operations or designee has authorized the release of this report. The results contained herein relate only to the Laboratory Sample ID(s) documented above. This analytical test report may not be reproduced except in full, without the written approval of the laboratory. Quality Assurance / Quality Control Data associated with results within this report are documented in the attached QA/QC Report.

Please contact 254.829.8001 with any questions or concerns.

A. Shay Ochoa, Technical Director
Bio Chem Lab, Inc.

BIO CHEM LAB, INC. **PHONE: 254.829.8001** **FAX: 254.829.8013**
4751 TOKIO RD .WEST, TX 76691

ANALYTICAL REPORT

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HILLSBORO, TX 76645
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MARCH 2024 - HILLSBORO	
REPORT ID:	HIL- 061124
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	6.11.24

BCL PROJECT DATA QUALIFIERS:

Q	Failed Quality Data. Refer to QA/QC Report of the affected data for specific details.
Q1	Blank outside desired limits. Data accepted based on passing batch LCS recoveries.
Q2	LCS recovery outside desired limits. Data accepted on basis of additional narrative if applicable
Q3	Matrix Spike and/or Matrix Spike Duplicate outside desired limits. Data accepted on basis of passing LCS recoveries.
QS3	Matrix Spike and/or Matrix Spike Duplicate outside desired limits. Sample not spiked at a high enough concentration to be statistically different from the native sample result. Data accepted on basis of passing LCS recoveries.
Q4	Sample specific duplicate precision outside desired range.
QM1	Microbiology precision unable to be evaluated due to low background concentration (< 10 CFU / MPN) of target analyte
QM2	Microbiology precision unable to be evaluated due to high background concentration (> 2420 CFU / MPN) of target analyte
QM3	Microbiology precision outside desired range.
B1	Results for CBOD / BOD reported as less than [< 2 mg/L] with no sample dilution depleting method required 2.00 mg/L
B2	Results for CBOD / BOD reported as an estimate due to no dilution meeting a method stated depletion criteria.
B3	Result for CBOD / BOD unable to be determined due to excessive oxidant content, high chlorine residual.
W1	Result is an average of multiple weighing / drying cycles.
C	Reported result over the laboratory's calibration range
C1	Reported result over the laboratory's calibration range but within the laboratory verified Linear Dynamic Range.
J5	Reported result less than the laboratory reporting limit but greater than the Limit of Detection.
ND	Not detected
V	Additional sample volume would have been required to meet analytical method specifications.
HT	Sample analysis performed outside method / regulatory prescribed holding time.
T	Sample received outside method / regulatory prescribed requirements for thermal preservation.
P	Sample received outside method / regulatory prescribed requirements for pH preservation.
A	Accredidation for analysis performed is either not currenly offered or is currently outside the laboratory's scope of accredidation.
N	The associated analysis was performed by a network / sub-contract laboratory.
L	Laboratory Error
PW	Potable Water
NPW	Non-Potable Water
Z	Refer to additional notes / supplemental narrative

ADDITIONAL NOTES:

BIO CHEM LAB, INC. **PHONE: 254.829.8001** **FAX: 254.829.8013**
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BIO CHEM LAB, INC
PO BOX 356
4751 TOKIO ROAD
WEST, TX 76691-0356
E-MAIL: CUSTOMERSERVICE@BIOCHEMLABTX.COM

SERVICE ♦ VISION ♦ COMMUNITY ♦ COMMITMENT

OFFICE NO.: 254.829.8001
FAX NO.: 254.829.8013
CELL NO.: 254.749.4320
EMERGENCY: 254.749.4320

CLIENT / PROJECT: CITY OF HILLSBORO - PERMIT RENEWAL	CONTACT: TERRY DIETERICH	COLLECTED BY: Gibby Ficke
ADDRESS: P.O. BOX 568	PHONE NO.: 254-744-5117	FIELD DATA: pH 6.8 DO 6.1 TEMP 21.2°C
HILLSBORO, TX 76645	EMAIL:	FLOW — DATE/TIME 3.12.24 - 1000

Sample ID	Obs Temp °C	Corr Temp °C	Sample Name, Site Description or Case Number	Collection Date	Collection Time	Matrix	Container No. / Volume / Type	Grab / Composite	Preservation Code	Verified	Analysis Requested
Laboratory Use Only											CBOD / TSS / SULFATE / CHLORIDE / TDS / EC / ALK / NO3 / DO / TRC / pH
6221-24	6.6	6.5	EFFLUENT	3.12.24	1000	NPW	1 / 2000 / P 1 / 1000 / P	GRAB	1		
							1 / 1000 / P		1,2	1.0	AMMONIA / TKN / TOTAL PHOS
							1 / 120 / M		1		E. COLI
							1 / 1000 / AG		1,2		OIL & GREASE

PROJECT COMMENTS / SAMPLING PROCEDURES:

LABORATORY COMMENTS:

PRESERVATIVE REAGENT ID
H_2SO_4 130971/2950
HNO_3
HCl
NA-OH
NA-THIO
OTHER:

THERMOMETER ID: IR1

Documentation of TRC / Mn Correction, as needed:

DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	PLACED IN REFRIGERATOR / INITIALS (FRIDGE ID)
3.12.24	1400	AP	3.12.24	1400	DGF	NPW1/NPW3-FF

Matrix: **AQ** - Aqueous **NPW** - Non-Potable Water **S** - Sludge/Soil/Sediment **PW** - Potable Water (1) cool to 4°C (2) H_2SO_4 to pH<2 (3) HNO_3 to pH<2 (4) HCl to pH<2 (5) $Na_2S_2O_3$ (6) NaOH to pH>12 (7) None required (8) Other, as noted

Container: **P** - Plastic **AP** - Amber Plastic **G** - Clear Glass **AG** - Amber Glass **M** - Bact / MICRO **B** - Whirl Pak / BAG **VOA** - 40 mL vial **O** - OTHER___ ***Describe:***

pH STRIPS: ✓(0-6): 725511574 ___(7.5-14): CUSTODY SEALS: ✓COOLER ___CONTAINERS ___NA/NO SEALS INTACT: ✓YES ___NO

ADDITIONAL PRESERVATION / SAMPLE INTEGRITY NOTES:

REQUESTED TAT: ✓STANDARD (7-10 DAYS) ___BCL EXPRESS (5-6 DAYS) (1.25X) ___BCL PRIORITY (3-4 DAYS) (1.5X) ___BCL FIRE (1-2 DAYS) (2.0X) Rush service availability may depend on logistics and method.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: A. Shay Ochoa
Bio Chem Lab, Inc
4751 Tokio Rd
West, Texas 76691

Generated 4/14/2024 6:09:16 PM

JOB DESCRIPTION

City of Hillsboro Permit Renewal

JOB NUMBER

860-69911-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

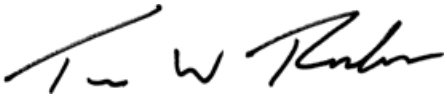
Eurofins Houston

Job Notes

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

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

Authorization



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Authorized for release by
Travis Richter, Project Manager
Travis.Richter@et.eurofinsus.com
(281)794-7216

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Dioxin

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Glossary (Continued)

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

Job Narrative
860-69911-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt
The sample was received on 3/13/2024 2:35 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.3°C and 2.6°C.

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria: 6221-24 Hillsbors Permit Renewal (860-69911-1). Sample 1 was received out of temp in Sacramento at 12.9C. FedEx tag has delivery for FRI - 15 MAR but was received on 3/18/2024. Containers are 1 L amber glass unpreserved (Containers H, I, J & K).

Subcontract Work
Methods Hexachlorophene, Table 4.0 (1) - Organophosphorous Pesticides (GC): These methods were subcontracted to Ana-Lab Corporation. The subcontract laboratory certifications are different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Method Asbestos: This method was subcontracted to EMLab P&K. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA
Method 624.1: The continuing calibration verification (CCV) associated with batch 860-149796 recovered outside acceptance criteria, low biased, for Bromomethane (-21.8%). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 624.1: The matrix spike (MS) recoveries for analytical batch 860-149796 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC/MS Semi VOA
Method 625.1: The surrogate recovery for the method blank associated with preparation batch 860-150228 and analytical batch 860-150257 was outside the control limits.

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 6221-24 Hillsbors Permit Renewal (860-69911-1). These results have been reported and qualified.

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 6221-24 Hillsbors Permit Renewal (860-69911-1). These results have been reported and qualified.

Method 625.1: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-150805 and analytical batch 860-150908 recovered outside control limits for the following analyte: Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for this analyte. These results have been reported and qualified.

Method 625.1: The following sample was re-prepared outside of preparation holding time due to initial analysis LCS/LCSD recoveries outside control limits (low biased).: 6221-24 Hillsbors Permit Renewal (860-69911-1).

Method 625.1: The surrogate recovery for the blank associated with preparation batch 860-150805 and analytical batch 860-150908 was outside the control limits.

Method 625.1: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-150228 and analytical batch 860-150257 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene, 2-Chloronaphthalene, Fluorene and Hexachloroethane. The associated sample was re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported.

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-150228 and analytical batch 860-150257 recovered outside control limits for the following analytes: Benzidine and Pyridine.

Method 625.1: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-150228 and analytical batch 860-150257 recovered outside control limits for the following analyte(s): Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method Organotins_SIM: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-421863.O'TIN-W

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

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

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

Pesticides
Method 608.3_Pest: The surrogate recovery for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with preparation batch 860-150340 and analytical batch 860-150874 was outside the upper control limits.

(LCS 860-150340/2-A) and (LCSD 860-150340/3-A)

Method 608.3_Pest: The continuing calibration verification (CCV) associated with batch 860-150874 recovered above the upper control limit for 4,4'-DDT, Heptachlor and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVRT 860-150874/4).

Method 608.3_Pest: The laboratory control sample (LCS) for preparation batch 860-150340 and analytical batch 860-150874 recovered outside control limits for the following analytes: 4,4'-DDD, Endrin aldehyde, Heptachlor and Methoxychlor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 608.3_Pest: The laboratory control sample duplicate (LCSD) for preparation batch 860-150340 and analytical batch 860-150874 recovered outside control limits for the following analytes: Endrin aldehyde, Heptachlor and Methoxychlor. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 608.3_Pest: Surrogate recovery for the following sample was outside the upper control limit: 6221-24 Hillsbors Permit Renewal (860-69911-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

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

Dioxin
Method 1613B: The window defining mixture (WDM) associated with 320-751471 exceeded the 25% valley resolution requirement for 2,3,7,8-TCDD on the DB-5 column analysis. The impact to the data is minimal as associated field samples were non-detect for 2,3,7,8-TCDD.

(WDM 320-751471/1)

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD and 13C-1,2,3,7,8,9-HxCDD associated with the following samples run on instrument DFS 1 exceeded this criteria: (CCV 320-751471/2), (LCS 320-748976/2-A), (LCSD 320-748976/3-A) and (MB 320-748976/1-A). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD and 13C-1,2,3,7,8,9-HxCDD associated with the following samples run on instrument DFS 1 exceeded this criteria: 6221-24 Hillsbors Permit Renewal (860-69911-1) and (CCV 320-752263/2). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

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

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

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

Detection Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Lab Sample ID: 860-69911-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tributyltin	14.5		2.96	1.12	ng/L	1		Organotins SIM	Total/NA
Mercury	2.71		0.500	0.200	ng/L	1		1631E	Total/NA
Boron	0.254		0.0500	0.0173	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cyanide, Non-amenable	0.00567		0.00500	0.00233	mg/L	1		4500 CN G NonAm	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Lab Sample ID: 860-69911-1
Date Collected: 03/12/24 10:00
Matrix: Water
Date Received: 03/13/24 14:35

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	10.0	0.585	ug/L			03/15/24 00:32	1
1,1,2,2-Tetrachloroethane	ND	U	10.0	0.470	ug/L			03/15/24 00:32	1
1,1,2-Trichloroethane	ND	U	10.0	0.411	ug/L			03/15/24 00:32	1
1,1-Dichloroethane	ND	U	10.0	0.635	ug/L			03/15/24 00:32	1
1,1-Dichlorethylene	ND	U	10.0	0.738	ug/L			03/15/24 00:32	1
1,2-Dibromoethane	ND	U	10.0	0.999	ug/L			03/15/24 00:32	1
1,2-Dichlorobenzene	ND	U	10.0	0.429	ug/L			03/15/24 00:32	1
1,2-Dichloroethane	ND	U	10.0	0.372	ug/L			03/15/24 00:32	1
1,2-Dichloropropane	ND	U	10.0	0.556	ug/L			03/15/24 00:32	1
1,3-Dichlorobenzene	ND	U	10.0	0.413	ug/L			03/15/24 00:32	1
1,4-Dichlorobenzene	ND	U	10.0	0.449	ug/L			03/15/24 00:32	1
Methyl Ethyl Ketone	ND	U	50.0	8.28	ug/L			03/15/24 00:32	1
2-Chloroethyl vinyl ether	ND	U	10.0	0.753	ug/L			03/15/24 00:32	1
Acrolein	ND	U F1	50.0	11.1	ug/L			03/15/24 00:32	1
Acrylonitrile	ND	U	50.0	14.3	ug/L			03/15/24 00:32	1
Benzene	ND	U	10.0	0.460	ug/L			03/15/24 00:32	1
Dichlorobromomethane	ND	U	10.0	0.552	ug/L			03/15/24 00:32	1
Bromoform	ND	U	10.0	0.633	ug/L			03/15/24 00:32	1
Carbon tetrachloride	ND	U	2.00	0.896	ug/L			03/15/24 00:32	1
Chlorobenzene	ND	U	10.0	0.455	ug/L			03/15/24 00:32	1
Chloroethane	ND	U	50.0	1.98	ug/L			03/15/24 00:32	1
Chloroform	ND	U	10.0	0.464	ug/L			03/15/24 00:32	1
Methyl chloride	ND	U	50.0	2.04	ug/L			03/15/24 00:32	1
Chlorodibromomethane	ND	U	10.0	0.547	ug/L			03/15/24 00:32	1
Ethylbenzene	ND	U	10.0	0.385	ug/L			03/15/24 00:32	1
Methylene Chloride	ND	U	20.0	1.73	ug/L			03/15/24 00:32	1
Tetrachloroethylene	ND	U	10.0	0.655	ug/L			03/15/24 00:32	1
Toluene	ND	U	10.0	0.475	ug/L			03/15/24 00:32	1
Trichloroethylene	ND	U	10.0	1.50	ug/L			03/15/24 00:32	1
Trihalomethanes, Total	ND	U	10.0	0.633	ug/L			03/15/24 00:32	1
Vinyl chloride	ND	U	10.0	0.428	ug/L			03/15/24 00:32	1
1,2-trans-Dichloroethylene	ND	U	10.0	0.368	ug/L			03/15/24 00:32	1
1,3-Dichloropropene, Total	ND	U	5.00	1.27	ug/L			03/15/24 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*63 - 144*		*03/15/24 00:32*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/15/24 00:32*	*1*

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl bromide	ND	U	50.0	1.42	ug/L			03/15/24 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*63 - 144*		*03/15/24 15:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/15/24 15:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND	U	10.0	1.32	ug/L		03/18/24 09:27	03/19/24 15:27	1
1,2,4-Trichlorobenzene	ND	U *-	10.0	1.61	ug/L		03/18/24 09:27	03/19/24 15:27	1

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Lab Sample ID: 860-69911-1
Date Collected: 03/12/24 10:00
Matrix: Water
Date Received: 03/13/24 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine	ND	U	10.0	1.49	ug/L		03/18/24 09:27	03/19/24 15:27	1
bis (2-chloroisopropyl) ether	ND	U	10.0	1.79	ug/L		03/18/24 09:27	03/19/24 15:27	1
2,4,5-Trichlorophenol	ND	U	10.0	2.00	ug/L		03/18/24 09:27	03/19/24 15:27	1
2,4,6-Trichlorophenol	ND	U	10.0	1.42	ug/L		03/18/24 09:27	03/19/24 15:27	1
2,4-Dichlorophenol	ND	U	10.0	0.314	ug/L		03/18/24 09:27	03/19/24 15:27	1
2,4-Dimethylphenol	ND	U	10.0	0.649	ug/L		03/18/24 09:27	03/19/24 15:27	1
2,4-Dinitrophenol	ND	U	50.0	1.61	ug/L		03/18/24 09:27	03/19/24 15:27	1
2,4-Dinitrotoluene	ND	U	10.0	1.31	ug/L		03/18/24 09:27	03/19/24 15:27	1
2,6-Dinitrotoluene	ND	U	10.0	1.61	ug/L		03/18/24 09:27	03/19/24 15:27	1
2-Chloronaphthalene	ND	U *-	10.0	0.462	ug/L		03/18/24 09:27	03/19/24 15:27	1
2-Chlorophenol	ND	U	10.0	0.649	ug/L		03/18/24 09:27	03/19/24 15:27	1
2-Nitrophenol	ND	U	20.0	1.67	ug/L		03/18/24 09:27	03/19/24 15:27	1
o-Cresol	ND	U	10.0	1.62	ug/L		03/18/24 09:27	03/19/24 15:27	1
m & p - Cresol	ND	U	10.0	2.62	ug/L		03/18/24 09:27	03/19/24 15:27	1
3,3'-Dichlorobenzidine	ND	U	5.00	0.341	ug/L		03/18/24 09:27	03/19/24 15:27	1
4,6-Dinitro-o-cresol	ND	U	50.0	1.44	ug/L		03/18/24 09:27	03/19/24 15:27	1
4-Bromophenyl phenyl ether	ND	U	10.0	0.256	ug/L		03/18/24 09:27	03/19/24 15:27	1
4-Chlorophenyl phenyl ether	ND	U	10.0	1.28	ug/L		03/18/24 09:27	03/19/24 15:27	1
4-Nitrophenol	ND	U	50.0	4.91	ug/L		03/18/24 09:27	03/19/24 15:27	1
p-Chloro-m-cresol	ND	U	10.0	1.57	ug/L		03/18/24 09:27	03/19/24 15:27	1
Acenaphthene	ND	U	10.0	1.39	ug/L		03/18/24 09:27	03/19/24 15:27	1
Acenaphthylene	ND	U	10.0	1.41	ug/L		03/18/24 09:27	03/19/24 15:27	1
Aniline	ND	U	10.0	0.969	ug/L		03/18/24 09:27	03/19/24 15:27	1
Anthracene	ND	U	10.0	1.50	ug/L		03/18/24 09:27	03/19/24 15:27	1
Benzidine	ND	U *- *1	50.0	4.80	ug/L		03/18/24 09:27	03/19/24 15:27	1
Benzo[a]anthracene	ND	U	5.00	0.173	ug/L		03/18/24 09:27	03/19/24 15:27	1
Benzo[a]pyrene	ND	U	5.00	0.364	ug/L		03/18/24 09:27	03/19/24 15:27	1
Benzo[b]fluoranthene	ND	U	10.0	2.04	ug/L		03/18/24 09:27	03/19/24 15:27	1
Benzo[g,h,i]perylene	ND	U	20.0	2.68	ug/L		03/18/24 09:27	03/19/24 15:27	1
Benzo[k]fluoranthene	ND	U	5.00	0.375	ug/L		03/18/24 09:27	03/19/24 15:27	1
Butyl benzyl phthalate	ND	U	10.0	0.337	ug/L		03/18/24 09:27	03/19/24 15:27	1
Chrysene	ND	U	5.00	0.222	ug/L		03/18/24 09:27	03/19/24 15:27	1
Dibenz(a,h)anthracene	ND	U	5.00	0.246	ug/L		03/18/24 09:27	03/19/24 15:27	1
Diethyl phthalate	ND	U	10.0	1.59	ug/L		03/18/24 09:27	03/19/24 15:27	1
Dimethyl phthalate	ND	U	10.0	0.299	ug/L		03/18/24 09:27	03/19/24 15:27	1
Fluoranthene	ND	U	10.0	1.59	ug/L		03/18/24 09:27	03/19/24 15:27	1
Fluorene	ND	U *-	10.0	1.63	ug/L		03/18/24 09:27	03/19/24 15:27	1
Hexachlorobenzene	ND	U	5.00	0.307	ug/L		03/18/24 09:27	03/19/24 15:27	1
Hexachlorobutadiene	ND	U	10.0	0.238	ug/L		03/18/24 09:27	03/19/24 15:27	1
Hexachlorocyclopentadiene	ND	U	10.0	4.58	ug/L		03/18/24 09:27	03/19/24 15:27	1
Hexachloroethane	ND	U *-	20.0	0.526	ug/L		03/18/24 09:27	03/19/24 15:27	1
Indeno[1,2,3-cd]pyrene	ND	U	5.00	2.29	ug/L		03/18/24 09:27	03/19/24 15:27	1
Isophorone	ND	U	10.0	1.64	ug/L		03/18/24 09:27	03/19/24 15:27	1
N-Nitrosodi-n-butylamine	ND	U	20.0	1.49	ug/L		03/18/24 09:27	03/19/24 15:27	1
N-Nitrosodiethylamine	ND	U	20.0	1.75	ug/L		03/18/24 09:27	03/19/24 15:27	1
N-Nitrosodimethylamine	ND	U	50.0	2.02	ug/L		03/18/24 09:27	03/19/24 15:27	1
Naphthalene	ND	U	10.0	0.542	ug/L		03/18/24 09:27	03/19/24 15:27	1
Nitrobenzene	ND	U	10.0	1.66	ug/L		03/18/24 09:27	03/19/24 15:27	1
Pentachlorobenzene	ND	U	20.0	1.07	ug/L		03/18/24 09:27	03/19/24 15:27	1

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Lab Sample ID: 860-69911-1
Date Collected: 03/12/24 10:00
Matrix: Water
Date Received: 03/13/24 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND	U	5.00	0.234	ug/L		03/18/24 09:27	03/19/24 15:27	1
Phenanthrene	ND	U	10.0	1.42	ug/L		03/18/24 09:27	03/19/24 15:27	1
Phenol	ND	U	10.0	0.423	ug/L		03/18/24 09:27	03/19/24 15:27	1
Pyrene	ND	U	10.0	0.178	ug/L		03/18/24 09:27	03/19/24 15:27	1
Pyridine	ND	U *1	20.0	2.64	ug/L		03/18/24 09:27	03/19/24 15:27	1
Bis(2-chloroethyl)ether	ND	U	10.0	2.16	ug/L		03/18/24 09:27	03/19/24 15:27	1
Bis(2-chloroethoxy)methane	ND	U	10.0	1.76	ug/L		03/18/24 09:27	03/19/24 15:27	1
Bis(2-ethylhexyl) phthalate	ND	U	10.0	0.277	ug/L		03/18/24 09:27	03/19/24 15:27	1
Di-n-butyl phthalate	ND	U	10.0	0.252	ug/L		03/18/24 09:27	03/19/24 15:27	1
Di-n-octyl phthalate	ND	U	10.0	0.373	ug/L		03/18/24 09:27	03/19/24 15:27	1
N-Nitrosodi-n-propylamine	ND	U	20.0	2.88	ug/L		03/18/24 09:27	03/19/24 15:27	1
N-Nitrosodiphenylamine	ND	U	20.0	1.81	ug/L		03/18/24 09:27	03/19/24 15:27	1
Total Cresols	ND	U	10.0	2.62	ug/L		03/18/24 09:27	03/19/24 15:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*ND*	*U*	*ug/L*			*542-88-1*	*03/18/24 09:27*	*03/19/24 15:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*20*	*S1-*	*28 - 114*	*03/18/24 09:27*	*03/19/24 15:27*	*1*
Phenol-d5 (Surr)	*13*		*8 - 424*	*03/18/24 09:27*	*03/19/24 15:27*	*1*
Nitrobenzene-d5 (Surr)	*54*		*15 - 314*	*03/18/24 09:27*	*03/19/24 15:27*	*1*
2-Fluorobiphenyl	*48*		*29 - 112*	*03/18/24 09:27*	*03/19/24 15:27*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*31 - 132*	*03/18/24 09:27*	*03/19/24 15:27*	*1*
p-Terphenyl-d14 (Surr)	*64*		*20 - 141*	*03/18/24 09:27*	*03/19/24 15:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND	U H	10.0	1.32	ug/L		03/20/24 16:17	03/22/24 00:57	1
1,2,4-Trichlorobenzene	ND	U H	10.0	1.61	ug/L		03/20/24 16:17	03/22/24 00:57	1
1,2-Diphenylhydrazine	ND	U H	10.0	1.49	ug/L		03/20/24 16:17	03/22/24 00:57	1
bis (2-chloroisopropyl) ether	ND	U H	10.0	1.79	ug/L		03/20/24 16:17	03/22/24 00:57	1
2,4,5-Trichlorophenol	ND	U H	10.0	2.00	ug/L		03/20/24 16:17	03/22/24 00:57	1
2,4,6-Trichlorophenol	ND	U H	10.0	1.42	ug/L		03/20/24 16:17	03/22/24 00:57	1
2,4-Dichlorophenol	ND	U H	10.0	0.314	ug/L		03/20/24 16:17	03/22/24 00:57	1
2,4-Dimethylphenol	ND	U H	10.0	0.649	ug/L		03/20/24 16:17	03/22/24 00:57	1
2,4-Dinitrophenol	ND	U H	50.0	1.61	ug/L		03/20/24 16:17	03/22/24 00:57	1
2,4-Dinitrotoluene	ND	U H	10.0	1.31	ug/L		03/20/24 16:17	03/22/24 00:57	1
2,6-Dinitrotoluene	ND	U H	10.0	1.61	ug/L		03/20/24 16:17	03/22/24 00:57	1
2-Chloronaphthalene	ND	U H	10.0	0.462	ug/L		03/20/24 16:17	03/22/24 00:57	1
2-Chlorophenol	ND	U H	10.0	0.649	ug/L		03/20/24 16:17	03/22/24 00:57	1
2-Nitrophenol	ND	U H	20.0	1.67	ug/L		03/20/24 16:17	03/22/24 00:57	1
o-Cresol	ND	U H	10.0	1.62	ug/L		03/20/24 16:17	03/22/24 00:57	1
m & p - Cresol	ND	U H	10.0	2.62	ug/L		03/20/24 16:17	03/22/24 00:57	1
3,3'-Dichlorobenzidine	ND	U H	5.00	0.341	ug/L		03/20/24 16:17	03/22/24 00:57	1
4,6-Dinitro-o-cresol	ND	U H	50.0	1.44	ug/L		03/20/24 16:17	03/22/24 00:57	1
4-Bromophenyl phenyl ether	ND	U H	10.0	0.256	ug/L		03/20/24 16:17	03/22/24 00:57	1
4-Chlorophenyl phenyl ether	ND	U H	10.0	1.28	ug/L		03/20/24 16:17	03/22/24 00:57	1
4-Nitrophenol	ND	U H	50.0	4.91	ug/L		03/20/24 16:17	03/22/24 00:57	1
p-Chloro-m-cresol	ND	U H	10.0	1.57	ug/L		03/20/24 16:17	03/22/24 00:57	1
Acenaphthene	ND	U H	10.0	1.39	ug/L		03/20/24 16:17	03/22/24 00:57	1

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Lab Sample ID: 860-69911-1
Date Collected: 03/12/24 10:00
Matrix: Water
Date Received: 03/13/24 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND	U H	10.0	1.41	ug/L		03/20/24 16:17	03/22/24 00:57	1
Aniline	ND	U H	10.0	0.969	ug/L		03/20/24 16:17	03/22/24 00:57	1
Anthracene	ND	U H	10.0	1.50	ug/L		03/20/24 16:17	03/22/24 00:57	1
Benzidine	ND	U H *-	50.0	4.80	ug/L		03/20/24 16:17	03/22/24 00:57	1
Benzo[a]anthracene	ND	U H	5.00	0.173	ug/L		03/20/24 16:17	03/22/24 00:57	1
Benzo[a]pyrene	ND	U H	5.00	0.364	ug/L		03/20/24 16:17	03/22/24 00:57	1
Benzo[b]fluoranthene	ND	U H	10.0	2.04	ug/L		03/20/24 16:17	03/22/24 00:57	1
Benzo[g,h,i]perylene	ND	U H	20.0	2.68	ug/L		03/20/24 16:17	03/22/24 00:57	1
Benzo[k]fluoranthene	ND	U H	5.00	0.375	ug/L		03/20/24 16:17	03/22/24 00:57	1
Butyl benzyl phthalate	ND	U H	10.0	0.337	ug/L		03/20/24 16:17	03/22/24 00:57	1
Chrysene	ND	U H	5.00	0.222	ug/L		03/20/24 16:17	03/22/24 00:57	1
Dibenz(a,h)anthracene	ND	U H	5.00	0.246	ug/L		03/20/24 16:17	03/22/24 00:57	1
Diethyl phthalate	ND	U H	10.0	1.59	ug/L		03/20/24 16:17	03/22/24 00:57	1
Dimethyl phthalate	ND	U H	10.0	0.299	ug/L		03/20/24 16:17	03/22/24 00:57	1
Fluoranthene	ND	U H	10.0	1.59	ug/L		03/20/24 16:17	03/22/24 00:57	1
Fluorene	ND	U H	10.0	1.63	ug/L		03/20/24 16:17	03/22/24 00:57	1
Hexachlorobenzene	ND	U H	5.00	0.307	ug/L		03/20/24 16:17	03/22/24 00:57	1
Hexachlorobutadiene	ND	U H	10.0	0.238	ug/L		03/20/24 16:17	03/22/24 00:57	1
Hexachlorocyclopentadiene	ND	U H	10.0	4.58	ug/L		03/20/24 16:17	03/22/24 00:57	1
Hexachloroethane	ND	U H	20.0	0.526	ug/L		03/20/24 16:17	03/22/24 00:57	1
Indeno[1,2,3-cd]pyrene	ND	U H	5.00	2.29	ug/L		03/20/24 16:17	03/22/24 00:57	1
Isophorone	ND	U H	10.0	1.64	ug/L		03/20/24 16:17	03/22/24 00:57	1
N-Nitrosodi-n-butylamine	ND	U H	20.0	1.49	ug/L		03/20/24 16:17	03/22/24 00:57	1
N-Nitrosodiethylamine	ND	U H	20.0	1.75	ug/L		03/20/24 16:17	03/22/24 00:57	1
N-Nitrosodimethylamine	ND	U H	50.0	2.02	ug/L		03/20/24 16:17	03/22/24 00:57	1
Naphthalene	ND	U H	10.0	0.542	ug/L		03/20/24 16:17	03/22/24 00:57	1
Nitrobenzene	ND	U H	10.0	1.66	ug/L		03/20/24 16:17	03/22/24 00:57	1
Pentachlorobenzene	ND	U H	20.0	1.07	ug/L		03/20/24 16:17	03/22/24 00:57	1
Pentachlorophenol	ND	U H	5.00	0.234	ug/L		03/20/24 16:17	03/22/24 00:57	1
Phenanthrene	ND	U H	10.0	1.42	ug/L		03/20/24 16:17	03/22/24 00:57	1
Phenol	ND	U H	10.0	0.423	ug/L		03/20/24 16:17	03/22/24 00:57	1
Pyrene	ND	U H	10.0	0.178	ug/L		03/20/24 16:17	03/22/24 00:57	1
Pyridine	ND	U H	20.0	2.64	ug/L		03/20/24 16:17	03/22/24 00:57	1
Bis(2-chloroethyl)ether	ND	U H	10.0	2.16	ug/L		03/20/24 16:17	03/22/24 00:57	1
Bis(2-chloroethoxy)methane	ND	U H	10.0	1.76	ug/L		03/20/24 16:17	03/22/24 00:57	1
Bis(2-ethylhexyl) phthalate	ND	U H	10.0	0.277	ug/L		03/20/24 16:17	03/22/24 00:57	1
Di-n-butyl phthalate	ND	U H	10.0	0.252	ug/L		03/20/24 16:17	03/22/24 00:57	1
Di-n-octyl phthalate	ND	U H	10.0	0.373	ug/L		03/20/24 16:17	03/22/24 00:57	1
N-Nitrosodi-n-propylamine	ND	U H	20.0	2.88	ug/L		03/20/24 16:17	03/22/24 00:57	1
N-Nitrosodiphenylamine	ND	U H	20.0	1.81	ug/L		03/20/24 16:17	03/22/24 00:57	1
Total Cresols	ND	U H	10.0	2.62	ug/L		03/20/24 16:17	03/22/24 00:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*ND*	*U H*	*ug/L*			*542-88-1*	*03/20/24 16:17*	*03/22/24 00:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*27*	*S1-*	*28 - 114*	*03/20/24 16:17*	*03/22/24 00:57*	*1*
Phenol-d5 (Surr)	*19*		*8 - 424*	*03/20/24 16:17*	*03/22/24 00:57*	*1*
Nitrobenzene-d5 (Surr)	*62*		*15 - 314*	*03/20/24 16:17*	*03/22/24 00:57*	*1*
2-Fluorobiphenyl	*57*		*29 - 112*	*03/20/24 16:17*	*03/22/24 00:57*	*1*

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Lab Sample ID: 860-69911-1
Date Collected: 03/12/24 10:00
Matrix: Water
Date Received: 03/13/24 14:35

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*31 - 132*	*03/20/24 16:17*	*03/22/24 00:57*	*1*
p-Terphenyl-d14 (Surr)	*100*		*20 - 141*	*03/20/24 16:17*	*03/22/24 00:57*	*1*

Method: ASTM D7065-11 - Determination of Nonylphenols

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	ND	U	5050	1150	ng/L		03/26/24 12:09	03/28/24 16:52	1
Nonylphenol diethoxylate	ND	U	20200	4610	ng/L		03/26/24 12:09	03/28/24 16:52	1
Nonylphenol monoethoxylate	ND	U	10100	2070	ng/L		03/26/24 12:09	03/28/24 16:52	1
Bisphenol-A	ND	U	2120	1040	ng/L		03/26/24 12:09	03/28/24 16:52	1
4-tert-Octylphenol	ND	U	1010	283	ng/L		03/26/24 12:09	03/28/24 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-nonylphenol (Surr)	*76*		*58 - 115*	*03/26/24 12:09*	*03/28/24 16:52*	*1*
4-nonylphenol monoethoxylate (Surr)	*66*		*54 - 139*	*03/26/24 12:09*	*03/28/24 16:52*	*1*

Method: Lab SOP Organotins SIM - Organotins (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyltin	**14.5**		2.96	1.12	ng/L		03/19/24 17:03	03/26/24 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tripentyltin	*87*		*10 - 120*	*03/19/24 17:03*	*03/26/24 13:05*	*1*

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	U *+	0.0200	0.000814	ug/L		03/19/24 14:10	03/25/24 11:48	1
4,4'-DDE	ND	U	0.0200	0.00109	ug/L		03/19/24 14:10	03/25/24 11:48	1
4,4'-DDT	ND	U	0.00400	0.00379	ug/L		03/19/24 14:10	03/25/24 11:48	1
Aldrin	ND	U	0.00200	0.00113	ug/L		03/19/24 14:10	03/25/24 11:48	1
alpha-BHC	ND	U	0.00900	0.00142	ug/L		03/19/24 14:10	03/25/24 11:48	1
beta-BHC	ND	U	0.0180	0.00389	ug/L		03/19/24 14:10	03/25/24 11:48	1
Chlordane	ND	U	0.103	0.103	ug/L		03/19/24 14:10	03/25/24 11:48	1
delta-BHC	ND	U	0.250	0.00245	ug/L		03/19/24 14:10	03/25/24 11:48	1
Dicofol	ND	U	0.200	0.0500	ug/L		03/19/24 14:10	03/25/24 11:48	1
Dieldrin	ND	U	0.00400	0.000953	ug/L		03/19/24 14:10	03/25/24 11:48	1
Endosulfan I	ND	U	0.00200	0.00107	ug/L		03/19/24 14:10	03/25/24 11:48	1
Endosulfan II	ND	U	0.00400	0.00122	ug/L		03/19/24 14:10	03/25/24 11:48	1
Endosulfan sulfate	ND	U	0.0200	0.00112	ug/L		03/19/24 14:10	03/25/24 11:48	1
Endrin	ND	U	0.00400	0.00156	ug/L		03/19/24 14:10	03/25/24 11:48	1
Endrin aldehyde	ND	U *+	0.0200	0.00118	ug/L		03/19/24 14:10	03/25/24 11:48	1
Hexachlorocyclohexane	ND	U	0.0100	0.00299	ug/L		03/19/24 14:10	03/25/24 11:48	1
Heptachlor	ND	U *+	0.00446	0.00446	ug/L		03/19/24 14:10	03/25/24 11:48	1
Heptachlor epoxide	ND	U	0.00200	0.00134	ug/L		03/19/24 14:10	03/25/24 11:48	1
Methoxychlor	ND	U *+	0.0200	0.00390	ug/L		03/19/24 14:10	03/25/24 11:48	1
Mirex	ND	U	0.0200	0.0200	ug/L		03/19/24 14:10	03/25/24 11:48	1
Toxaphene	ND	U	0.0770	0.0769	ug/L		03/19/24 14:10	03/25/24 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*154*	*S1+*	*15 - 136*	*03/19/24 14:10*	*03/25/24 11:48*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*18 - 126*	*03/19/24 14:10*	*03/25/24 11:48*	*1*

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Lab Sample ID: 860-69911-1
Date Collected: 03/12/24 10:00
Matrix: Water
Date Received: 03/13/24 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	U	0.0400	0.0125	ug/L		03/19/24 14:10	03/21/24 10:25	1
PCB-1221	ND	U	0.0400	0.0125	ug/L		03/19/24 14:10	03/21/24 10:25	1
PCB-1232	ND	U	0.0400	0.0125	ug/L		03/19/24 14:10	03/21/24 10:25	1
PCB-1242	ND	U	0.0400	0.0125	ug/L		03/19/24 14:10	03/21/24 10:25	1
PCB-1248	ND	U	0.0400	0.0125	ug/L		03/19/24 14:10	03/21/24 10:25	1
PCB-1254	ND	U	0.0400	0.00780	ug/L		03/19/24 14:10	03/21/24 10:25	1
PCB-1260	ND	U	0.0400	0.00780	ug/L		03/19/24 14:10	03/21/24 10:25	1
Polychlorinated biphenyls, Total	ND	U	0.0400	0.0400	ug/L		03/19/24 14:10	03/21/24 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*70*		*18 - 126*	*03/19/24 14:10*	*03/21/24 10:25*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*15 - 136*	*03/19/24 14:10*	*03/21/24 10:25*	*1*

Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	ND	U	0.200	0.0422	ug/L		03/19/24 12:59	03/23/24 07:13	1
2,4-D	ND	U	0.200	0.0539	ug/L		03/19/24 12:59	03/23/24 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*45 - 150*	*03/19/24 12:59*	*03/23/24 07:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND	U	5.00	1.85	ug/L		03/19/24 13:38	03/29/24 03:54	1
Diuron	ND	U	0.0900	0.0514	ug/L		03/19/24 13:38	03/29/24 03:54	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	9.95	0.519	pg/L		03/21/24 08:32	04/04/24 08:30	1
2,3,7,8-TCDF	ND	U	9.95	0.284	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,7,8-PeCDD	ND	U	49.7	1.57	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,7,8-PeCDF	ND	U	49.7	0.815	pg/L		03/21/24 08:32	04/04/24 08:30	1
2,3,4,7,8-PeCDF	ND	U	49.7	0.932	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,4,7,8-HxCDD	ND	U	49.7	1.54	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,6,7,8-HxCDD	ND	U	49.7	1.64	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,7,8,9-HxCDD	ND	U	49.7	1.51	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,4,7,8-HxCDF	ND	U	49.7	0.826	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,6,7,8-HxCDF	ND	U	49.7	0.830	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,7,8,9-HxCDF	ND	U	49.7	0.738	pg/L		03/21/24 08:32	04/04/24 08:30	1
2,3,4,6,7,8-HxCDF	ND	U	49.7	0.746	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,4,6,7,8-HpCDD	ND	U	49.7	0.544	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,4,6,7,8-HpCDF	ND	U	49.7	0.832	pg/L		03/21/24 08:32	04/04/24 08:30	1
1,2,3,4,7,8,9-HpCDF	ND	U	49.7	0.868	pg/L		03/21/24 08:32	04/04/24 08:30	1
OCDD	ND	U	99.5	1.30	pg/L		03/21/24 08:32	04/04/24 08:30	1
OCDF	ND	U	99.5	0.837	pg/L		03/21/24 08:32	04/04/24 08:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*25 - 164*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-1,2,3,7,8-PeCDD	*78*		*25 - 181*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-1,2,3,7,8-PeCDF	*81*		*24 - 185*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-2,3,7,8-TCDF	*91*		*24 - 169*	*03/21/24 08:32*	*04/04/24 08:30*	*1*

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Lab Sample ID: 860-69911-1

Date Collected: 03/12/24 10:00
Matrix: Water
Date Received: 03/13/24 14:35

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*72*		*28 - 130*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-1,2,3,7,8,9-HxCDF	*96*		*29 - 147*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*28 - 143*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-OCDF	*95*		*17 - 157*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-1,2,3,4,7,8-HxCDD	*79*		*32 - 141*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-1,2,3,6,7,8-HxCDF	*81*		*26 - 123*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-2,3,4,7,8-PeCDF	*77*		*21 - 178*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*80*		*23 - 140*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-OCDD	*82*		*17 - 157*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-1,2,3,4,7,8-HxCDF	*87*		*26 - 152*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-2,3,4,6,7,8-HxCDF	*87*		*28 - 136*	*03/21/24 08:32*	*04/04/24 08:30*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*91*		*26 - 138*	*03/21/24 08:32*	*04/04/24 08:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*113*		*35 - 197*	*03/21/24 08:32*	*04/04/24 08:30*	*1*

Method: EPA 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-77	ND	U	19.5	2.35	pg/L		03/20/24 10:22	04/06/24 06:28	1
PCB-81	ND	U	19.5	2.51	pg/L		03/20/24 10:22	04/06/24 06:28	1
PCB-126	ND	U	19.5	0.644	pg/L		03/20/24 10:22	04/06/24 06:28	1
PCB-169	ND	U	19.5	0.294	pg/L		03/20/24 10:22	04/06/24 06:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-126L	*48*		*10 - 145*	*03/20/24 10:22*	*04/06/24 06:28*	*1*
PCB-169L	*51*		*10 - 145*	*03/20/24 10:22*	*04/06/24 06:28*	*1*
PCB-81L	*44*		*10 - 145*	*03/20/24 10:22*	*04/06/24 06:28*	*1*
PCB-77L	*44*		*10 - 145*	*03/20/24 10:22*	*04/06/24 06:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*65*		*5 - 145*	*03/20/24 10:22*	*04/06/24 06:28*	*1*
PCB-111L	*76*		*10 - 145*	*03/20/24 10:22*	*04/06/24 06:28*	*1*
PCB-178L	*84*		*10 - 145*	*03/20/24 10:22*	*04/06/24 06:28*	*1*

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.71**		0.500	0.200	ng/L		03/19/24 16:17	03/21/24 11:51	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.254**		0.0500	0.0173	mg/L		03/17/24 13:00	03/18/24 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Non-amenable (SM 4500 CN G NonAm)	**0.00567**		0.00500	0.00233	mg/L		03/22/24 15:39	03/24/24 13:46	1
Cyanide, Total (EPA Kelada 01)	ND	U	0.00500	0.00198	mg/L			03/25/24 13:36	1
Cyanide, Amenable (SM 4500 CN G)	ND	U	0.00500	0.00233	mg/L			03/27/24 09:48	1

Surrogate Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCA	TOL								
Lab Sample ID	Client Sample ID	(63-144)	(80-120)								
860-69911-1	6221-24 Hillsbors Permit Renewal	89	97								
860-69911-1 - RA	6221-24 Hillsbors Permit Renewal	114	102								
860-69911-1 MS	6221-24 Hillsbors Permit Renewal	85	98								
LCS 860-149796/3	Lab Control Sample	86	99								
LCS 860-149950/3	Lab Control Sample	101	98								
LCSD 860-149796/4	Lab Control Sample Dup	86	99								
LCSD 860-149950/4	Lab Control Sample Dup	100	100								
MB 860-149796/10	Method Blank	90	98								
MB 860-149950/9	Method Blank	109	101								

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		2FP	PHL	NBZ	FBP	TBP	TPHd14		
Lab Sample ID	Client Sample ID	(28-114)	(8-424)	(15-314)	(29-112)	(31-132)	(20-141)		
860-69911-1	6221-24 Hillsbors Permit Renewal	20 S1-	13	54	48	56	64		
860-69911-1 - RE	6221-24 Hillsbors Permit Renewal	27 S1-	19	62	57	84	100		
LCS 860-150228/2-A	Lab Control Sample	33	24	64	60	73	75		
LCS 860-150805/2-A	Lab Control Sample	41	29	81	80	91	92		
LCSD 860-150228/3-A	Lab Control Sample Dup	34	24	68	64	75	77		
LCSD 860-150805/3-A	Lab Control Sample Dup	43	32	84	83	97	100		
MB 860-150228/1-A	Method Blank	26 S1-	17	60	51	48	70		
MB 860-150805/1-A	Method Blank	24 S1-	16	59	55	62	94		

Surrogate Legend

2FP = 2-Fluorophenol (Surr)

PHL = Phenol-d5 (Surr)

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: D7065-11 - Determination of Nonylphenols

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		4NPH	4NPME								
Lab Sample ID	Client Sample ID	(58-115)	(54-139)								
860-69911-1	6221-24 Hillsbors Permit Renewal	76	66								
LCS 280-647138/2-A	Lab Control Sample	94	103								
MB 280-647138/1-A	Method Blank	77	84								

Surrogate Legend

4NPH = 4-nonylphenol (Surr)

4NPME = 4-nonylphenol monoethoxylate (Surr)

Surrogate Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Method: Organotins SIM - Organotins (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TPTT							
Lab Sample ID	Client Sample ID	(10-120)							
860-69911-1	6221-24 Hillsbors Permit Renewal	87							
LCS 570-421863/2-A	Lab Control Sample	52							
LCSD 570-421863/3-A	Lab Control Sample Dup	53							
MB 570-421863/1-A	Method Blank	66							

Surrogate Legend

TPTT = Tripentyltin

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	TCX1						
Lab Sample ID	Client Sample ID	(15-136)	(18-126)						
860-69911-1	6221-24 Hillsbors Permit Renewal	154 S1+	82						
LCS 860-150340/2-A	Lab Control Sample	153 S1+	123						
LCSD 860-150340/3-A	Lab Control Sample Dup	142 S1+	113						
MB 860-150340/1-A	Method Blank	130	89						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX1	DCB1						
Lab Sample ID	Client Sample ID	(18-126)	(15-136)						
860-69911-1	6221-24 Hillsbors Permit Renewal	70	91						
LCS 860-150340/4-A	Lab Control Sample	88	136						
LCSD 860-150340/5-A	Lab Control Sample Dup	77	132						
MB 860-150340/1-A	Method Blank	78	122						

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 615 - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCPAA1							
Lab Sample ID	Client Sample ID	(45-150)							
860-69911-1	6221-24 Hillsbors Permit Renewal	70							
LCS 860-150523/2-A	Lab Control Sample	69							
LCSD 860-150523/3-A	Lab Control Sample Dup	71							
MB 860-150523/1-A	Method Blank	67							

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Surrogate Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	37TCDD (35-197)								
860-69911-1	6221-24 Hillsbors Permit Renewal	113								
MB 320-748976/1-A	Method Blank	110								

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	37TCDD (31-191)								
LCS 320-748976/2-A	Lab Control Sample	111								
LCSD 320-748976/3-A	Lab Control Sample Dup	110								

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	PCB28L (5-145)	PCB111L (10-145)	PCB178L (10-145)						
860-69911-1	6221-24 Hillsbors Permit Renewal	65	76	84						
MB 320-748762/1-A	Method Blank	67	67	77						

Surrogate Legend

PCB28L = PCB-28L
PCB111L = PCB-111L
PCB178L = PCB-178L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	PCB28L (15-145)	PCB111L (40-145)	PCB178L (40-145)						
LCS 320-748762/2-A	Lab Control Sample	58	58	66						
LCSD 320-748762/3-A	Lab Control Sample Dup	62	63	70						

Surrogate Legend

PCB28L = PCB-28L
PCB111L = PCB-111L
PCB178L = PCB-178L

Isotope Dilution Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD	PeCDD	PeCDF	TCDF	HxDD	HxCF	HpCDF	OCDF
Lab Sample ID	Client Sample ID	(25-164)	(25-181)	(24-185)	(24-169)	(28-130)	(29-147)	(28-143)	(17-157)
860-69911-1	6221-24 Hillsbors Permit Renewal	81	78	81	91	72	96	78	95
MB 320-748976/1-A	Method Blank	72	68	71	84	69	85	72	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxCDD	HxDF	PeCF	HpCDD	OCDD	HxCDF	13CHxCF	HpCDF2
Lab Sample ID	Client Sample ID	(32-141)	(26-123)	(21-178)	(23-140)	(17-157)	(26-152)	(28-136)	(26-138)
860-69911-1	6221-24 Hillsbors Permit Renewal	79	81	77	80	82	87	87	91
MB 320-748976/1-A	Method Blank	71	73	72	78	85	76	77	89

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
TCDF = 13C-2,3,7,8-TCDF
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
OCDF = 13C-OCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDF = 13C-1,2,3,6,7,8-HxCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD	PeCDD	PeCDF	TCDF	HxDD	HxCF	HpCDF	OCDF
Lab Sample ID	Client Sample ID	(20-175)	(21-227)	(21-192)	(22-152)	(25-163)	(17-205)	(21-158)	(13-199)
LCS 320-748976/2-A	Lab Control Sample	74	74	79	90	73	92	78	108
LCSD 320-748976/3-A	Lab Control Sample Dup	68	65	70	81	65	84	70	93

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxCDD	HxDF	PeCF	HpCDD	OCDD	HxCDF	13CHxCF	HpCDF2
Lab Sample ID	Client Sample ID	(21-193)	(21-159)	(13-328)	(26-166)	(13-199)	(19-202)	(22-176)	(20-186)
LCS 320-748976/2-A	Lab Control Sample	71	77	74	85	92	78	83	96
LCSD 320-748976/3-A	Lab Control Sample Dup	65	68	65	76	79	70	76	85

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
TCDF = 13C-2,3,7,8-TCDF
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
OCDF = 13C-OCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD

Isotope Dilution Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

HxDF = 13C-1,2,3,6,7,8-HxCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)			
		PCB126L	PCB169L	PCB81L	PCB77L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)
860-69911-1	6221-24 Hillsbors Permit Renewal	48	51	44	44
MB 320-748762/1-A	Method Blank	69	82	60	62

Surrogate Legend

PCB126L = PCB-126L
PCB169L = PCB-169L
PCB81L = PCB-81L
PCB77L = PCB-77L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)			
		PCB126L	PCB169L	PCB81L	PCB77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)
LCS 320-748762/2-A	Lab Control Sample	66	77	58	58
LCSD 320-748762/3-A	Lab Control Sample Dup	58	73	55	56

Surrogate Legend

PCB126L = PCB-126L
PCB169L = PCB-169L
PCB81L = PCB-81L
PCB77L = PCB-77L

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-149796/10
Matrix: Water
Analysis Batch: 149796

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	10.0	0.585	ug/L			03/14/24 23:31	1
1,1,2,2-Tetrachloroethane	ND	U	10.0	0.470	ug/L			03/14/24 23:31	1
1,1,2-Trichloroethane	ND	U	10.0	0.411	ug/L			03/14/24 23:31	1
1,1-Dichloroethane	ND	U	10.0	0.635	ug/L			03/14/24 23:31	1
1,1-Dichlorethylene	ND	U	10.0	0.738	ug/L			03/14/24 23:31	1
1,2-Dibromoethane	ND	U	10.0	0.999	ug/L			03/14/24 23:31	1
1,2-Dichlorobenzene	ND	U	10.0	0.429	ug/L			03/14/24 23:31	1
1,2-Dichloroethane	ND	U	10.0	0.372	ug/L			03/14/24 23:31	1
1,2-Dichloropropane	ND	U	10.0	0.556	ug/L			03/14/24 23:31	1
1,3-Dichlorobenzene	ND	U	10.0	0.413	ug/L			03/14/24 23:31	1
1,4-Dichlorobenzene	ND	U	10.0	0.449	ug/L			03/14/24 23:31	1
Methyl Ethyl Ketone	ND	U	50.0	8.28	ug/L			03/14/24 23:31	1
2-Chloroethyl vinyl ether	ND	U	10.0	0.753	ug/L			03/14/24 23:31	1
Acrolein	ND	U	50.0	11.1	ug/L			03/14/24 23:31	1
Acrylonitrile	ND	U	50.0	14.3	ug/L			03/14/24 23:31	1
Benzene	ND	U	10.0	0.460	ug/L			03/14/24 23:31	1
Dichlorobromomethane	ND	U	10.0	0.552	ug/L			03/14/24 23:31	1
Bromoform	ND	U	10.0	0.633	ug/L			03/14/24 23:31	1
Methyl bromide	ND	U	50.0	1.42	ug/L			03/14/24 23:31	1
Carbon tetrachloride	ND	U	2.00	0.896	ug/L			03/14/24 23:31	1
Chlorobenzene	ND	U	10.0	0.455	ug/L			03/14/24 23:31	1
Chloroethane	ND	U	50.0	1.98	ug/L			03/14/24 23:31	1
Chloroform	ND	U	10.0	0.464	ug/L			03/14/24 23:31	1
Methyl chloride	ND	U	50.0	2.04	ug/L			03/14/24 23:31	1
Chlorodibromomethane	ND	U	10.0	0.547	ug/L			03/14/24 23:31	1
Ethylbenzene	ND	U	10.0	0.385	ug/L			03/14/24 23:31	1
Methylene Chloride	ND	U	20.0	1.73	ug/L			03/14/24 23:31	1
Tetrachloroethylene	ND	U	10.0	0.655	ug/L			03/14/24 23:31	1
Toluene	ND	U	10.0	0.475	ug/L			03/14/24 23:31	1
Trichloroethylene	ND	U	10.0	1.50	ug/L			03/14/24 23:31	1
Trihalomethanes, Total	ND	U	10.0	0.633	ug/L			03/14/24 23:31	1
Vinyl chloride	ND	U	10.0	0.428	ug/L			03/14/24 23:31	1
1,2-trans-Dichloroethylene	ND	U	10.0	0.368	ug/L			03/14/24 23:31	1
1,3-Dichloropropene, Total	ND	U	5.00	1.27	ug/L			03/14/24 23:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*		*03/14/24 23:31*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/14/24 23:31*	*1*

Lab Sample ID: LCS 860-149796/3
Matrix: Water
Analysis Batch: 149796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.59		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.04		ug/L		98	74 - 125
1,1,2-Trichloroethane	50.0	48.74		ug/L		97	75 - 130
1,1-Dichloroethane	50.0	46.41		ug/L		93	71 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-149796/3
Matrix: Water
Analysis Batch: 149796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichlorethylene	50.0	49.51		ug/L		99	50 - 150
1,2-Dibromoethane	50.0	51.55		ug/L		103	73 - 125
1,2-Dichlorobenzene	50.0	52.25		ug/L		105	75 - 125
1,2-Dichloroethane	50.0	42.98		ug/L		86	72 - 130
1,2-Dichloropropane	50.0	49.81		ug/L		100	74 - 125
1,3-Dichlorobenzene	50.0	53.48		ug/L		107	75 - 125
1,4-Dichlorobenzene	50.0	52.69		ug/L		105	75 - 125
Methyl Ethyl Ketone	250	214.6		ug/L		86	60 - 140
2-Chloroethyl vinyl ether	50.0	44.09		ug/L		88	50 - 150
Acrolein	250	206.7		ug/L		83	60 - 140
Acrylonitrile	500	430.2		ug/L		86	60 - 140
Benzene	50.0	52.59		ug/L		105	75 - 125
Dichlorobromomethane	50.0	46.93		ug/L		94	75 - 125
Bromoform	50.0	48.12		ug/L		96	70 - 130
Methyl bromide	50.0	42.17	J	ug/L		84	60 - 140
Carbon tetrachloride	50.0	47.80		ug/L		96	70 - 125
Chlorobenzene	50.0	53.51		ug/L		107	82 - 135
Chloroethane	50.0	50.56		ug/L		101	60 - 140
Chloroform	50.0	47.13		ug/L		94	70 - 121
Methyl chloride	50.0	41.52	J	ug/L		83	60 - 140
Chlorodibromomethane	50.0	49.63		ug/L		99	73 - 125
Ethylbenzene	50.0	52.63		ug/L		105	75 - 125
Methylene Chloride	50.0	45.86		ug/L		92	71 - 125
Tetrachloroethylene	50.0	57.46		ug/L		115	71 - 125
Toluene	50.0	52.97		ug/L		106	75 - 130
Trichloroethylene	50.0	55.09		ug/L		110	75 - 135
Vinyl chloride	50.0	49.46		ug/L		99	60 - 140
cis-1,3-Dichloropropylene	50.0	47.45		ug/L		95	74 - 125
1,2-trans-Dichloroethylene	50.0	50.17		ug/L		100	75 - 125
trans-1,3-Dichloropropylene	50.0	45.84		ug/L		92	66 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*63 - 144*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 860-149796/4
Matrix: Water
Analysis Batch: 149796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	48.20		ug/L		96	70 - 130	3	25
1,1,2,2-Tetrachloroethane	50.0	48.11		ug/L		96	74 - 125	2	25
1,1,2-Trichloroethane	50.0	47.37		ug/L		95	75 - 130	3	25
1,1-Dichloroethane	50.0	45.85		ug/L		92	71 - 130	1	25
1,1-Dichlorethylene	50.0	47.80		ug/L		96	50 - 150	4	25
1,2-Dibromoethane	50.0	50.97		ug/L		102	73 - 125	1	25
1,2-Dichlorobenzene	50.0	50.57		ug/L		101	75 - 125	3	25
1,2-Dichloroethane	50.0	41.68		ug/L		83	72 - 130	3	25

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-149796/4
Matrix: Water
Analysis Batch: 149796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane	50.0	47.47		ug/L		95	74 - 125	5	25
1,3-Dichlorobenzene	50.0	52.09		ug/L		104	75 - 125	3	25
1,4-Dichlorobenzene	50.0	51.12		ug/L		102	75 - 125	3	25
Methyl Ethyl Ketone	250	220.3		ug/L		88	60 - 140	3	25
2-Chloroethyl vinyl ether	50.0	43.45		ug/L		87	50 - 150	1	25
Acrolein	250	211.4		ug/L		85	60 - 140	2	25
Acrylonitrile	500	442.0		ug/L		88	60 - 140	3	25
Benzene	50.0	50.14		ug/L		100	75 - 125	5	25
Dichlorobromomethane	50.0	44.62		ug/L		89	75 - 125	5	25
Bromoform	50.0	48.24		ug/L		96	70 - 130	0	25
Methyl bromide	50.0	42.96	J	ug/L		86	60 - 140	2	25
Carbon tetrachloride	50.0	47.26		ug/L		95	70 - 125	1	25
Chlorobenzene	50.0	51.65		ug/L		103	82 - 135	4	25
Chloroethane	50.0	49.46	J	ug/L		99	60 - 140	2	25
Chloroform	50.0	46.52		ug/L		93	70 - 121	1	25
Methyl chloride	50.0	40.82	J	ug/L		82	60 - 140	2	25
Chlorodibromomethane	50.0	48.02		ug/L		96	73 - 125	3	25
Ethylbenzene	50.0	50.87		ug/L		102	75 - 125	3	25
Methylene Chloride	50.0	45.28		ug/L		91	71 - 125	1	25
Tetrachloroethylene	50.0	55.28		ug/L		111	71 - 125	4	25
Toluene	50.0	50.74		ug/L		101	75 - 130	4	25
Trichloroethylene	50.0	52.39		ug/L		105	75 - 135	5	25
Vinyl chloride	50.0	48.90		ug/L		98	60 - 140	1	25
cis-1,3-Dichloropropylene	50.0	45.54		ug/L		91	74 - 125	4	25
1,2-trans-Dichloroethylene	50.0	47.54		ug/L		95	75 - 125	5	25
trans-1,3-Dichloropropylene	50.0	44.46		ug/L		89	66 - 125	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*63 - 144*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 860-69911-1 MS
Matrix: Water
Analysis Batch: 149796

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND	U	50.0	45.70		ug/L		91	75 - 125
1,1,2,2-Tetrachloroethane	ND	U	50.0	52.08		ug/L		104	74 - 125
1,1,2-Trichloroethane	ND	U	50.0	50.13		ug/L		100	75 - 127
1,1-Dichloroethane	ND	U	50.0	44.13		ug/L		88	72 - 125
1,1-Dichlorethylene	ND	U	50.0	42.87		ug/L		86	59 - 172
1,2-Dibromoethane	ND	U	50.0	53.13		ug/L		106	73 - 125
1,2-Dichlorobenzene	ND	U	50.0	51.27		ug/L		103	75 - 125
1,2-Dichloroethane	ND	U	50.0	43.38		ug/L		87	68 - 127
1,2-Dichloropropane	ND	U	50.0	48.42		ug/L		97	74 - 125
1,3-Dichlorobenzene	ND	U	50.0	52.04		ug/L		104	75 - 125
1,4-Dichlorobenzene	ND	U	50.0	51.95		ug/L		104	75 - 125
Methyl Ethyl Ketone	ND	U	250	236.1		ug/L		94	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-69911-1 MS
Matrix: Water
Analysis Batch: 149796

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloroethyl vinyl ether	ND	U	50.0	45.92		ug/L		92	50 - 150
Acrolein	ND	U F1	250	ND	U F1	ug/L		0	50 - 150
Acrylonitrile	ND	U	500	461.6		ug/L		92	50 - 150
Benzene	ND	U	50.0	49.79		ug/L		100	66 - 142
Dichlorobromomethane	ND	U	50.0	47.63		ug/L		93	75 - 125
Bromoform	ND	U	50.0	50.76		ug/L		102	75 - 125
Methyl bromide	ND	U	50.0	ND	U	ug/L		71	60 - 140
Carbon tetrachloride	ND	U	50.0	43.05		ug/L		86	62 - 125
Chlorobenzene	ND	U	50.0	51.95		ug/L		104	60 - 133
Chloroethane	ND	U	50.0	ND	U	ug/L		80	60 - 140
Chloroform	ND	U	50.0	51.16		ug/L		92	70 - 130
Methyl chloride	ND	U	50.0	ND	U	ug/L		68	60 - 140
Chlorodibromomethane	ND	U	50.0	50.55		ug/L		101	73 - 125
Ethylbenzene	ND	U	50.0	50.07		ug/L		100	75 - 125
Methylene Chloride	ND	U	50.0	44.41		ug/L		89	75 - 125
Tetrachloroethylene	ND	U	50.0	53.51		ug/L		107	71 - 125
Toluene	ND	U	50.0	51.27		ug/L		103	59 - 139
Trichloroethylene	ND	U	50.0	50.84		ug/L		102	62 - 137
Vinyl chloride	ND	U	50.0	37.43		ug/L		75	60 - 140
cis-1,3-Dichloropropylene	ND	U	50.0	46.68		ug/L		93	74 - 125
1,2-trans-Dichloroethylene	ND	U	50.0	45.04		ug/L		90	75 - 125
trans-1,3-Dichloropropylene	ND	U	50.0	45.89		ug/L		92	66 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 144*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 860-149950/9
Matrix: Water
Analysis Batch: 149950

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl bromide	ND	U	50.0	1.42	ug/L			03/15/24 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*03/15/24 14:04*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/15/24 14:04*	*1*

Lab Sample ID: LCS 860-149950/3
Matrix: Water
Analysis Batch: 149950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl bromide			50.0	52.53		ug/L		105	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCSD 860-149950/4
Matrix: Water
Analysis Batch: 149950

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl bromide			50.0	51.70		ug/L		103	60 - 140	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: MB 860-150228/1-A
Matrix: Water
Analysis Batch: 150257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND	U	10.0	1.32	ug/L		03/18/24 09:27	03/18/24 16:22	1
1,2,4-Trichlorobenzene	ND	U	10.0	1.61	ug/L		03/18/24 09:27	03/18/24 16:22	1
1,2-Diphenylhydrazine	ND	U	10.0	1.49	ug/L		03/18/24 09:27	03/18/24 16:22	1
bis (2-chloroisopropyl) ether	ND	U	10.0	1.79	ug/L		03/18/24 09:27	03/18/24 16:22	1
2,4,5-Trichlorophenol	ND	U	10.0	2.00	ug/L		03/18/24 09:27	03/18/24 16:22	1
2,4,6-Trichlorophenol	ND	U	10.0	1.42	ug/L		03/18/24 09:27	03/18/24 16:22	1
2,4-Dichlorophenol	ND	U	10.0	0.314	ug/L		03/18/24 09:27	03/18/24 16:22	1
2,4-Dimethylphenol	ND	U	10.0	0.649	ug/L		03/18/24 09:27	03/18/24 16:22	1
2,4-Dinitrophenol	ND	U	50.0	1.61	ug/L		03/18/24 09:27	03/18/24 16:22	1
2,4-Dinitrotoluene	ND	U	10.0	1.31	ug/L		03/18/24 09:27	03/18/24 16:22	1
2,6-Dinitrotoluene	ND	U	10.0	1.61	ug/L		03/18/24 09:27	03/18/24 16:22	1
2-Chloronaphthalene	ND	U	10.0	0.462	ug/L		03/18/24 09:27	03/18/24 16:22	1
2-Chlorophenol	ND	U	10.0	0.649	ug/L		03/18/24 09:27	03/18/24 16:22	1
2-Nitrophenol	ND	U	20.0	1.67	ug/L		03/18/24 09:27	03/18/24 16:22	1
o-Cresol	ND	U	10.0	1.62	ug/L		03/18/24 09:27	03/18/24 16:22	1
m & p - Cresol	ND	U	10.0	2.62	ug/L		03/18/24 09:27	03/18/24 16:22	1
3,3'-Dichlorobenzidine	ND	U	5.00	0.341	ug/L		03/18/24 09:27	03/18/24 16:22	1
4,6-Dinitro-o-cresol	ND	U	50.0	1.44	ug/L		03/18/24 09:27	03/18/24 16:22	1
4-Bromophenyl phenyl ether	ND	U	10.0	0.256	ug/L		03/18/24 09:27	03/18/24 16:22	1
4-Chlorophenyl phenyl ether	ND	U	10.0	1.28	ug/L		03/18/24 09:27	03/18/24 16:22	1
4-Nitrophenol	ND	U	50.0	4.91	ug/L		03/18/24 09:27	03/18/24 16:22	1
p-Chloro-m-cresol	ND	U	10.0	1.57	ug/L		03/18/24 09:27	03/18/24 16:22	1
Acenaphthene	ND	U	10.0	1.39	ug/L		03/18/24 09:27	03/18/24 16:22	1
Acenaphthylene	ND	U	10.0	1.41	ug/L		03/18/24 09:27	03/18/24 16:22	1
Aniline	ND	U	10.0	0.969	ug/L		03/18/24 09:27	03/18/24 16:22	1
Anthracene	ND	U	10.0	1.50	ug/L		03/18/24 09:27	03/18/24 16:22	1
Benzidine	ND	U	50.0	4.80	ug/L		03/18/24 09:27	03/18/24 16:22	1
Benzo[a]anthracene	ND	U	5.00	0.173	ug/L		03/18/24 09:27	03/18/24 16:22	1
Benzo[a]pyrene	ND	U	5.00	0.364	ug/L		03/18/24 09:27	03/18/24 16:22	1
Benzo[b]fluoranthene	ND	U	10.0	2.04	ug/L		03/18/24 09:27	03/18/24 16:22	1
Benzo[g,h,i]perylene	ND	U	20.0	2.68	ug/L		03/18/24 09:27	03/18/24 16:22	1
Benzo[k]fluoranthene	ND	U	5.00	0.375	ug/L		03/18/24 09:27	03/18/24 16:22	1
Butyl benzyl phthalate	ND	U	10.0	0.337	ug/L		03/18/24 09:27	03/18/24 16:22	1
Chrysene	ND	U	5.00	0.222	ug/L		03/18/24 09:27	03/18/24 16:22	1
Dibenz(a,h)anthracene	ND	U	5.00	0.246	ug/L		03/18/24 09:27	03/18/24 16:22	1

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

Lab Sample ID: MB 860-150228/1-A
Matrix: Water
Analysis Batch: 150257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND	U	10.0	1.59	ug/L		03/18/24 09:27	03/18/24 16:22	1
Dimethyl phthalate	ND	U	10.0	0.299	ug/L		03/18/24 09:27	03/18/24 16:22	1
Fluoranthene	ND	U	10.0	1.59	ug/L		03/18/24 09:27	03/18/24 16:22	1
Fluorene	ND	U	10.0	1.63	ug/L		03/18/24 09:27	03/18/24 16:22	1
Hexachlorobenzene	ND	U	5.00	0.307	ug/L		03/18/24 09:27	03/18/24 16:22	1
Hexachlorobutadiene	ND	U	10.0	0.238	ug/L		03/18/24 09:27	03/18/24 16:22	1
Hexachlorocyclopentadiene	ND	U	10.0	4.58	ug/L		03/18/24 09:27	03/18/24 16:22	1
Hexachloroethane	ND	U	20.0	0.526	ug/L		03/18/24 09:27	03/18/24 16:22	1
Indeno[1,2,3-cd]pyrene	ND	U	5.00	2.29	ug/L		03/18/24 09:27	03/18/24 16:22	1
Isophorone	ND	U	10.0	1.64	ug/L		03/18/24 09:27	03/18/24 16:22	1
N-Nitrosodi-n-butylamine	ND	U	20.0	1.49	ug/L		03/18/24 09:27	03/18/24 16:22	1
N-Nitrosodiethylamine	ND	U	20.0	1.75	ug/L		03/18/24 09:27	03/18/24 16:22	1
N-Nitrosodimethylamine	ND	U	50.0	2.02	ug/L		03/18/24 09:27	03/18/24 16:22	1
Naphthalene	ND	U	10.0	0.542	ug/L		03/18/24 09:27	03/18/24 16:22	1
Nitrobenzene	ND	U	10.0	1.66	ug/L		03/18/24 09:27	03/18/24 16:22	1
Pentachlorobenzene	ND	U	20.0	1.07	ug/L		03/18/24 09:27	03/18/24 16:22	1
Pentachlorophenol	ND	U	5.00	0.234	ug/L		03/18/24 09:27	03/18/24 16:22	1
Phenanthrene	ND	U	10.0	1.42	ug/L		03/18/24 09:27	03/18/24 16:22	1
Phenol	ND	U	10.0	0.423	ug/L		03/18/24 09:27	03/18/24 16:22	1
Pyrene	ND	U	10.0	0.178	ug/L		03/18/24 09:27	03/18/24 16:22	1
Pyridine	ND	U	20.0	2.64	ug/L		03/18/24 09:27	03/18/24 16:22	1
Bis(2-chloroethyl)ether	ND	U	10.0	2.16	ug/L		03/18/24 09:27	03/18/24 16:22	1
Bis(2-chloroethoxy)methane	ND	U	10.0	1.76	ug/L		03/18/24 09:27	03/18/24 16:22	1
Bis(2-ethylhexyl) phthalate	ND	U	10.0	0.277	ug/L		03/18/24 09:27	03/18/24 16:22	1
Di-n-butyl phthalate	ND	U	10.0	0.252	ug/L		03/18/24 09:27	03/18/24 16:22	1
Di-n-octyl phthalate	ND	U	10.0	0.373	ug/L		03/18/24 09:27	03/18/24 16:22	1
N-Nitrosodi-n-propylamine	ND	U	20.0	2.88	ug/L		03/18/24 09:27	03/18/24 16:22	1
N-Nitrosodiphenylamine	ND	U	20.0	1.81	ug/L		03/18/24 09:27	03/18/24 16:22	1
Total Cresols	ND	U	10.0	2.62	ug/L		03/18/24 09:27	03/18/24 16:22	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*ND*	*U*	*ug/L*			*542-88-1*	*03/18/24 09:27*	*03/18/24 16:22*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*26*	*S1-*	*28 - 114*	*03/18/24 09:27*	*03/18/24 16:22*	*1*
Phenol-d5 (Surr)	*17*		*8 - 424*	*03/18/24 09:27*	*03/18/24 16:22*	*1*
Nitrobenzene-d5 (Surr)	*60*		*15 - 314*	*03/18/24 09:27*	*03/18/24 16:22*	*1*
2-Fluorobiphenyl	*51*		*29 - 112*	*03/18/24 09:27*	*03/18/24 16:22*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*31 - 132*	*03/18/24 09:27*	*03/18/24 16:22*	*1*
p-Terphenyl-d14 (Surr)	*70*		*20 - 141*	*03/18/24 09:27*	*03/18/24 16:22*	*1*

Lab Sample ID: LCS 860-150228/2-A
Matrix: Water
Analysis Batch: 150257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	22.85		ug/L		57	41 - 125
1,2,4-Trichlorobenzene	40.0	21.25	*-	ug/L		53	57 - 130

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

Lab Sample ID: LCS 860-150228/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 150257
Prep Batch: 150228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine	40.0	30.79		ug/L		77	28 - 136
bis (2-chloroisopropyl) ether	40.0	29.81		ug/L		75	63 - 139
2,4,5-Trichlorophenol	40.0	23.90		ug/L		60	35 - 111
2,4,6-Trichlorophenol	40.0	24.77		ug/L		62	52 - 129
2,4-Dichlorophenol	40.0	23.75		ug/L		59	53 - 122
2,4-Dimethylphenol	40.0	29.56		ug/L		74	42 - 120
2,4-Dinitrophenol	40.0	17.00	J	ug/L		43	12 - 173
2,4-Dinitrotoluene	40.0	29.56		ug/L		74	48 - 127
2,6-Dinitrotoluene	40.0	27.51		ug/L		69	68 - 137
2-Chloronaphthalene	40.0	23.57	*-	ug/L		59	65 - 120
2-Chlorophenol	40.0	21.58		ug/L		54	36 - 120
2-Nitrophenol	40.0	24.02		ug/L		60	45 - 167
o-Cresol	40.0	17.86		ug/L		45	14 - 176
m & p - Cresol	40.0	18.81		ug/L		47	14 - 176
3,3'-Dichlorobenzidine	40.0	29.17		ug/L		73	18 - 213
4,6-Dinitro-o-cresol	40.0	31.39	J	ug/L		78	53 - 130
4-Bromophenyl phenyl ether	40.0	26.95		ug/L		67	65 - 120
4-Chlorophenyl phenyl ether	40.0	25.51		ug/L		64	38 - 145
4-Nitrophenol	40.0	8.683	J	ug/L		22	13 - 129
p-Chloro-m-cresol	40.0	24.04		ug/L		60	41 - 128
Acenaphthene	40.0	24.93		ug/L		62	60 - 132
Acenaphthylene	40.0	24.97		ug/L		62	54 - 126
Aniline	40.0	17.43		ug/L		44	5 - 115
Anthracene	40.0	30.36		ug/L		76	43 - 120
Benzidine	40.0	ND	U *-	ug/L		10	25 - 125
Benzo[a]anthracene	40.0	29.75		ug/L		74	42 - 133
Benzo[a]pyrene	40.0	32.85		ug/L		82	32 - 148
Benzo[b]fluoranthene	40.0	30.54		ug/L		76	42 - 140
Benzo[g,h,i]perylene	40.0	30.50		ug/L		76	13 - 195
Benzo[k]fluoranthene	40.0	30.31		ug/L		76	25 - 146
Butyl benzyl phthalate	40.0	34.11		ug/L		85	12 - 140
Chrysene	40.0	28.13		ug/L		70	44 - 140
Dibenz(a,h)anthracene	40.0	32.56		ug/L		81	16 - 200
Diethyl phthalate	40.0	29.19		ug/L		73	17 - 120
Dimethyl phthalate	40.0	27.25		ug/L		68	25 - 120
Fluoranthene	40.0	32.05		ug/L		80	43 - 121
Fluorene	40.0	27.24	*-	ug/L		68	70 - 120
Hexachlorobenzene	40.0	27.34		ug/L		68	8 - 142
Hexachlorobutadiene	40.0	21.47		ug/L		54	38 - 120
Hexachlorocyclopentadiene	40.0	31.41		ug/L		79	41 - 125
Hexachloroethane	40.0	20.48	*-	ug/L		51	55 - 120
Indeno[1,2,3-cd]pyrene	40.0	33.10		ug/L		83	13 - 151
Isophorone	40.0	26.60		ug/L		66	47 - 180
N-Nitrosodi-n-butylamine	40.0	24.19		ug/L		60	33 - 141
N-Nitrosodiethylamine	40.0	25.15		ug/L		63	30 - 160
N-Nitrosodimethylamine	40.0	13.10	J	ug/L		33	20 - 125
Naphthalene	40.0	23.75		ug/L		59	36 - 120
Nitrobenzene	40.0	25.14		ug/L		63	54 - 158
Pentachlorobenzene	40.0	23.13		ug/L		58	25 - 131

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

Lab Sample ID: LCS 860-150228/2-A
Matrix: Water
Analysis Batch: 150257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Pentachlorophenol			40.0	22.90		ug/L		57	38 - 152		
Phenanthrene			40.0	29.30		ug/L		73	65 - 120		
Phenol			40.0	11.90		ug/L		30	17 - 120		
Pyrene			40.0	32.39		ug/L		81	70 - 120		
Pyridine			40.0	4.491	J	ug/L		11	5 - 94		
Bis(2-chloroethyl)ether			40.0	26.76		ug/L		67	43 - 126		
Bis(2-chloroethoxy)methane			40.0	25.05		ug/L		63	49 - 165		
Bis(2-ethylhexyl) phthalate			40.0	34.65		ug/L		87	29 - 137		
Di-n-butyl phthalate			40.0	33.63		ug/L		84	8 - 120		
Di-n-octyl phthalate			40.0	38.17		ug/L		95	19 - 132		
N-Nitrosodi-n-propylamine			40.0	27.84		ug/L		70	14 - 198		
N-Nitrosodiphenylamine			40.0	28.79		ug/L		72	2 - 196		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*33*		*28 - 114*
Phenol-d5 (Surr)	*24*		*8 - 424*
Nitrobenzene-d5 (Surr)	*64*		*15 - 314*
2-Fluorobiphenyl	*60*		*29 - 112*
2,4,6-Tribromophenol (Surr)	*73*		*31 - 132*
p-Terphenyl-d14 (Surr)	*75*		*20 - 141*

Lab Sample ID: LCSD 860-150228/3-A
Matrix: Water
Analysis Batch: 150257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150228

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			40.0	24.85		ug/L		62	41 - 125	8	30
1,2,4-Trichlorobenzene			40.0	23.61		ug/L		59	57 - 130	11	30
1,2-Diphenylhydrazine			40.0	33.25		ug/L		83	28 - 136	8	30
bis (2-chloroisopropyl) ether			40.0	33.33		ug/L		83	63 - 139	11	30
2,4,5-Trichlorophenol			40.0	26.86		ug/L		67	35 - 111	12	30
2,4,6-Trichlorophenol			40.0	27.20		ug/L		68	52 - 129	9	30
2,4-Dichlorophenol			40.0	26.29		ug/L		66	53 - 122	10	30
2,4-Dimethylphenol			40.0	32.28		ug/L		81	42 - 120	9	30
2,4-Dinitrophenol			40.0	19.37	J	ug/L		48	12 - 173	13	30
2,4-Dinitrotoluene			40.0	31.92		ug/L		80	48 - 127	8	25
2,6-Dinitrotoluene			40.0	29.47		ug/L		74	68 - 137	7	29
2-Chloronaphthalene			40.0	25.51	*-	ug/L		64	65 - 120	8	15
2-Chlorophenol			40.0	23.61		ug/L		59	36 - 120	9	30
2-Nitrophenol			40.0	26.42		ug/L		66	45 - 167	10	30
o-Cresol			40.0	19.28		ug/L		48	14 - 176	8	30
m & p - Cresol			40.0	20.68		ug/L		52	14 - 176	9	30
3,3'-Dichlorobenzidine			40.0	31.91		ug/L		80	18 - 213	9	30
4,6-Dinitro-o-cresol			40.0	33.51	J	ug/L		84	53 - 130	7	30
4-Bromophenyl phenyl ether			40.0	28.77		ug/L		72	65 - 120	7	26
4-Chlorophenyl phenyl ether			40.0	27.21		ug/L		68	38 - 145	6	30
4-Nitrophenol			40.0	9.373	J	ug/L		23	13 - 129	8	30
p-Chloro-m-cresol			40.0	26.90		ug/L		67	41 - 128	11	30

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

Lab Sample ID: LCSD 860-150228/3-A
Matrix: Water
Analysis Batch: 150257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150228

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	40.0	27.54		ug/L		69	60 - 132	10	29
Acenaphthylene	40.0	27.11		ug/L		68	54 - 126	8	30
Aniline	40.0	20.58		ug/L		51	5 - 115	17	30
Anthracene	40.0	32.48		ug/L		81	43 - 120	7	30
Benzidine	40.0	7.667	J *- *1	ug/L		19	25 - 125	64	30
Benzo[a]anthracene	40.0	32.32		ug/L		81	42 - 133	8	30
Benzo[a]pyrene	40.0	34.93		ug/L		87	32 - 148	6	30
Benzo[b]fluoranthene	40.0	33.58		ug/L		84	42 - 140	9	30
Benzo[g,h,i]perylene	40.0	31.72		ug/L		79	13 - 195	4	30
Benzo[k]fluoranthene	40.0	31.22		ug/L		78	25 - 146	3	30
Butyl benzyl phthalate	40.0	36.46		ug/L		91	12 - 140	7	30
Chrysene	40.0	29.79		ug/L		74	44 - 140	6	30
Dibenz(a,h)anthracene	40.0	34.25		ug/L		86	16 - 200	5	30
Diethyl phthalate	40.0	30.62		ug/L		77	17 - 120	5	30
Dimethyl phthalate	40.0	29.17		ug/L		73	25 - 120	7	30
Fluoranthene	40.0	33.89		ug/L		85	43 - 121	6	30
Fluorene	40.0	28.86		ug/L		72	70 - 120	6	23
Hexachlorobenzene	40.0	28.96		ug/L		72	8 - 142	6	30
Hexachlorobutadiene	40.0	23.34		ug/L		58	38 - 120	8	30
Hexachlorocyclopentadiene	40.0	35.51		ug/L		89	41 - 125	12	30
Hexachloroethane	40.0	23.01		ug/L		58	55 - 120	12	30
Indeno[1,2,3-cd]pyrene	40.0	35.02		ug/L		88	13 - 151	6	30
Isophorone	40.0	29.53		ug/L		74	47 - 180	10	30
N-Nitrosodi-n-butylamine	40.0	26.54		ug/L		66	33 - 141	9	30
N-Nitrosodiethylamine	40.0	28.19		ug/L		70	30 - 160	11	30
N-Nitrosodimethylamine	40.0	13.95	J	ug/L		35	20 - 125	6	30
Naphthalene	40.0	26.21		ug/L		66	36 - 120	10	30
Nitrobenzene	40.0	28.18		ug/L		70	54 - 158	11	30
Pentachlorobenzene	40.0	24.98		ug/L		62	25 - 131	8	30
Pentachlorophenol	40.0	23.70		ug/L		59	38 - 152	3	30
Phenanthrene	40.0	31.07		ug/L		78	65 - 120	6	30
Phenol	40.0	12.99		ug/L		32	17 - 120	9	30
Pyrene	40.0	34.51		ug/L		86	70 - 120	6	30
Pyridine	40.0	6.910	J *1	ug/L		17	5 - 94	42	30
Bis(2-chloroethyl)ether	40.0	29.93		ug/L		75	43 - 126	11	30
Bis(2-chloroethoxy)methane	40.0	27.70		ug/L		69	49 - 165	10	30
Bis(2-ethylhexyl) phthalate	40.0	36.95		ug/L		92	29 - 137	6	30
Di-n-butyl phthalate	40.0	36.14		ug/L		90	8 - 120	7	28
Di-n-octyl phthalate	40.0	40.16		ug/L		100	19 - 132	5	30
N-Nitrosodi-n-propylamine	40.0	30.87		ug/L		77	14 - 198	10	30
N-Nitrosodiphenylamine	40.0	31.46		ug/L		79	2 - 196	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*34*		*28 - 114*
Phenol-d5 (Surr)	*24*		*8 - 424*
Nitrobenzene-d5 (Surr)	*68*		*15 - 314*
2-Fluorobiphenyl	*64*		*29 - 112*
2,4,6-Tribromophenol (Surr)	*75*		*31 - 132*

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

Lab Sample ID: LCSD 860-150228/3-A
Matrix: Water
Analysis Batch: 150257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150228

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl-d14 (Surr)	77		20 - 141

Lab Sample ID: MB 860-150805/1-A
Matrix: Water
Analysis Batch: 150908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND	U	10.0	1.32	ug/L		03/20/24 16:17	03/21/24 18:10	1
1,2,4-Trichlorobenzene	ND	U	10.0	1.61	ug/L		03/20/24 16:17	03/21/24 18:10	1
1,2-Diphenylhydrazine	ND	U	10.0	1.49	ug/L		03/20/24 16:17	03/21/24 18:10	1
bis (2-chloroisopropyl) ether	ND	U	10.0	1.79	ug/L		03/20/24 16:17	03/21/24 18:10	1
2,4,5-Trichlorophenol	ND	U	10.0	2.00	ug/L		03/20/24 16:17	03/21/24 18:10	1
2,4,6-Trichlorophenol	ND	U	10.0	1.42	ug/L		03/20/24 16:17	03/21/24 18:10	1
2,4-Dichlorophenol	ND	U	10.0	0.314	ug/L		03/20/24 16:17	03/21/24 18:10	1
2,4-Dimethylphenol	ND	U	10.0	0.649	ug/L		03/20/24 16:17	03/21/24 18:10	1
2,4-Dinitrophenol	ND	U	50.0	1.61	ug/L		03/20/24 16:17	03/21/24 18:10	1
2,4-Dinitrotoluene	ND	U	10.0	1.31	ug/L		03/20/24 16:17	03/21/24 18:10	1
2,6-Dinitrotoluene	ND	U	10.0	1.61	ug/L		03/20/24 16:17	03/21/24 18:10	1
2-Chloronaphthalene	ND	U	10.0	0.462	ug/L		03/20/24 16:17	03/21/24 18:10	1
2-Chlorophenol	ND	U	10.0	0.649	ug/L		03/20/24 16:17	03/21/24 18:10	1
2-Nitrophenol	ND	U	20.0	1.67	ug/L		03/20/24 16:17	03/21/24 18:10	1
o-Cresol	ND	U	10.0	1.62	ug/L		03/20/24 16:17	03/21/24 18:10	1
m & p - Cresol	ND	U	10.0	2.62	ug/L		03/20/24 16:17	03/21/24 18:10	1
3,3'-Dichlorobenzidine	ND	U	5.00	0.341	ug/L		03/20/24 16:17	03/21/24 18:10	1
4,6-Dinitro-o-cresol	ND	U	50.0	1.44	ug/L		03/20/24 16:17	03/21/24 18:10	1
4-Bromophenyl phenyl ether	ND	U	10.0	0.256	ug/L		03/20/24 16:17	03/21/24 18:10	1
4-Chlorophenyl phenyl ether	ND	U	10.0	1.28	ug/L		03/20/24 16:17	03/21/24 18:10	1
4-Nitrophenol	ND	U	50.0	4.91	ug/L		03/20/24 16:17	03/21/24 18:10	1
p-Chloro-m-cresol	ND	U	10.0	1.57	ug/L		03/20/24 16:17	03/21/24 18:10	1
Acenaphthene	ND	U	10.0	1.39	ug/L		03/20/24 16:17	03/21/24 18:10	1
Acenaphthylene	ND	U	10.0	1.41	ug/L		03/20/24 16:17	03/21/24 18:10	1
Aniline	ND	U	10.0	0.969	ug/L		03/20/24 16:17	03/21/24 18:10	1
Anthracene	ND	U	10.0	1.50	ug/L		03/20/24 16:17	03/21/24 18:10	1
Benzidine	ND	U	50.0	4.80	ug/L		03/20/24 16:17	03/21/24 18:10	1
Benzo[a]anthracene	ND	U	5.00	0.173	ug/L		03/20/24 16:17	03/21/24 18:10	1
Benzo[a]pyrene	ND	U	5.00	0.364	ug/L		03/20/24 16:17	03/21/24 18:10	1
Benzo[b]fluoranthene	ND	U	10.0	2.04	ug/L		03/20/24 16:17	03/21/24 18:10	1
Benzo[g,h,i]perylene	ND	U	20.0	2.68	ug/L		03/20/24 16:17	03/21/24 18:10	1
Benzo[k]fluoranthene	ND	U	5.00	0.375	ug/L		03/20/24 16:17	03/21/24 18:10	1
Butyl benzyl phthalate	ND	U	10.0	0.337	ug/L		03/20/24 16:17	03/21/24 18:10	1
Chrysene	ND	U	5.00	0.222	ug/L		03/20/24 16:17	03/21/24 18:10	1
Dibenz(a,h)anthracene	ND	U	5.00	0.246	ug/L		03/20/24 16:17	03/21/24 18:10	1
Diethyl phthalate	ND	U	10.0	1.59	ug/L		03/20/24 16:17	03/21/24 18:10	1
Dimethyl phthalate	ND	U	10.0	0.299	ug/L		03/20/24 16:17	03/21/24 18:10	1
Fluoranthene	ND	U	10.0	1.59	ug/L		03/20/24 16:17	03/21/24 18:10	1
Fluorene	ND	U	10.0	1.63	ug/L		03/20/24 16:17	03/21/24 18:10	1
Hexachlorobenzene	ND	U	5.00	0.307	ug/L		03/20/24 16:17	03/21/24 18:10	1
Hexachlorobutadiene	ND	U	10.0	0.238	ug/L		03/20/24 16:17	03/21/24 18:10	1

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

Lab Sample ID: MB 860-150805/1-A
Matrix: Water
Analysis Batch: 150908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND	U	10.0	4.58	ug/L		03/20/24 16:17	03/21/24 18:10	1
Hexachloroethane	ND	U	20.0	0.526	ug/L		03/20/24 16:17	03/21/24 18:10	1
Indeno[1,2,3-cd]pyrene	ND	U	5.00	2.29	ug/L		03/20/24 16:17	03/21/24 18:10	1
Isophorone	ND	U	10.0	1.64	ug/L		03/20/24 16:17	03/21/24 18:10	1
N-Nitrosodi-n-butylamine	ND	U	20.0	1.49	ug/L		03/20/24 16:17	03/21/24 18:10	1
N-Nitrosodiethylamine	ND	U	20.0	1.75	ug/L		03/20/24 16:17	03/21/24 18:10	1
N-Nitrosodimethylamine	ND	U	50.0	2.02	ug/L		03/20/24 16:17	03/21/24 18:10	1
Naphthalene	ND	U	10.0	0.542	ug/L		03/20/24 16:17	03/21/24 18:10	1
Nitrobenzene	ND	U	10.0	1.66	ug/L		03/20/24 16:17	03/21/24 18:10	1
Pentachlorobenzene	ND	U	20.0	1.07	ug/L		03/20/24 16:17	03/21/24 18:10	1
Pentachlorophenol	ND	U	5.00	0.234	ug/L		03/20/24 16:17	03/21/24 18:10	1
Phenanthrene	ND	U	10.0	1.42	ug/L		03/20/24 16:17	03/21/24 18:10	1
Phenol	ND	U	10.0	0.423	ug/L		03/20/24 16:17	03/21/24 18:10	1
Pyrene	ND	U	10.0	0.178	ug/L		03/20/24 16:17	03/21/24 18:10	1
Pyridine	ND	U	20.0	2.64	ug/L		03/20/24 16:17	03/21/24 18:10	1
Bis(2-chloroethyl)ether	ND	U	10.0	2.16	ug/L		03/20/24 16:17	03/21/24 18:10	1
Bis(2-chloroethoxy)methane	ND	U	10.0	1.76	ug/L		03/20/24 16:17	03/21/24 18:10	1
Bis(2-ethylhexyl) phthalate	ND	U	10.0	0.277	ug/L		03/20/24 16:17	03/21/24 18:10	1
Di-n-butyl phthalate	ND	U	10.0	0.252	ug/L		03/20/24 16:17	03/21/24 18:10	1
Di-n-octyl phthalate	ND	U	10.0	0.373	ug/L		03/20/24 16:17	03/21/24 18:10	1
N-Nitrosodi-n-propylamine	ND	U	20.0	2.88	ug/L		03/20/24 16:17	03/21/24 18:10	1
N-Nitrosodiphenylamine	ND	U	20.0	1.81	ug/L		03/20/24 16:17	03/21/24 18:10	1
Total Cresols	ND	U	10.0	2.62	ug/L		03/20/24 16:17	03/21/24 18:10	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*ND*	*U*	*ug/L*			*542-88-1*	*03/20/24 16:17*	*03/21/24 18:10*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*24*	*S1-*	*28 - 114*	*03/20/24 16:17*	*03/21/24 18:10*	*1*
Phenol-d5 (Surr)	*16*		*8 - 424*	*03/20/24 16:17*	*03/21/24 18:10*	*1*
Nitrobenzene-d5 (Surr)	*59*		*15 - 314*	*03/20/24 16:17*	*03/21/24 18:10*	*1*
2-Fluorobiphenyl	*55*		*29 - 112*	*03/20/24 16:17*	*03/21/24 18:10*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*31 - 132*	*03/20/24 16:17*	*03/21/24 18:10*	*1*
p-Terphenyl-d14 (Surr)	*94*		*20 - 141*	*03/20/24 16:17*	*03/21/24 18:10*	*1*

Lab Sample ID: LCS 860-150805/2-A
Matrix: Water
Analysis Batch: 150908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	31.55		ug/L		79	41 - 125
1,2,4-Trichlorobenzene	40.0	28.12		ug/L		70	57 - 130
1,2-Diphenylhydrazine	40.0	40.12		ug/L		100	28 - 136
bis (2-chloroisopropyl) ether	40.0	37.69		ug/L		94	63 - 139
2,4,5-Trichlorophenol	40.0	32.12		ug/L		80	35 - 111
2,4,6-Trichlorophenol	40.0	33.54		ug/L		84	52 - 129
2,4-Dichlorophenol	40.0	31.92		ug/L		80	53 - 122
2,4-Dimethylphenol	40.0	39.94		ug/L		100	42 - 120

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

Lab Sample ID: LCS 860-150805/2-A
Matrix: Water
Analysis Batch: 150908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrophenol	40.0	24.49	J	ug/L		61	12 - 173
2,4-Dinitrotoluene	40.0	36.62		ug/L		92	48 - 127
2,6-Dinitrotoluene	40.0	33.71		ug/L		84	68 - 137
2-Chloronaphthalene	40.0	33.54		ug/L		84	65 - 120
2-Chlorophenol	40.0	27.82		ug/L		70	36 - 120
2-Nitrophenol	40.0	32.78		ug/L		82	45 - 167
o-Cresol	40.0	23.33		ug/L		58	14 - 176
m & p - Cresol	40.0	24.21		ug/L		61	14 - 176
3,3'-Dichlorobenzidine	40.0	36.51		ug/L		91	18 - 213
4,6-Dinitro-o-cresol	40.0	40.67	J	ug/L		102	53 - 130
4-Bromophenyl phenyl ether	40.0	35.61		ug/L		89	65 - 120
4-Chlorophenyl phenyl ether	40.0	33.20		ug/L		83	38 - 145
4-Nitrophenol	40.0	14.21	J	ug/L		36	13 - 129
p-Chloro-m-cresol	40.0	30.60		ug/L		76	41 - 128
Acenaphthene	40.0	33.84		ug/L		85	60 - 132
Acenaphthylene	40.0	33.17		ug/L		83	54 - 126
Aniline	40.0	22.85		ug/L		57	5 - 115
Anthracene	40.0	38.81		ug/L		97	43 - 120
Benzidine	40.0	7.460	J *-	ug/L		19	25 - 125
Benzo[a]anthracene	40.0	37.14		ug/L		93	42 - 133
Benzo[a]pyrene	40.0	41.74		ug/L		104	32 - 148
Benzo[b]fluoranthene	40.0	38.38		ug/L		96	42 - 140
Benzo[g,h,i]perylene	40.0	40.14		ug/L		100	13 - 195
Benzo[k]fluoranthene	40.0	38.72		ug/L		97	25 - 146
Butyl benzyl phthalate	40.0	42.00		ug/L		105	12 - 140
Chrysene	40.0	35.08		ug/L		88	44 - 140
Dibenz(a,h)anthracene	40.0	42.56		ug/L		106	16 - 200
Diethyl phthalate	40.0	35.54		ug/L		89	17 - 120
Dimethyl phthalate	40.0	33.67		ug/L		84	25 - 120
Fluoranthene	40.0	39.37		ug/L		98	43 - 121
Fluorene	40.0	34.79		ug/L		87	70 - 120
Hexachlorobenzene	40.0	35.40		ug/L		88	8 - 142
Hexachlorobutadiene	40.0	27.13		ug/L		68	38 - 120
Hexachlorocyclopentadiene	40.0	41.73		ug/L		104	41 - 125
Hexachloroethane	40.0	24.35		ug/L		61	55 - 120
Indeno[1,2,3-cd]pyrene	40.0	43.50		ug/L		109	13 - 151
Isophorone	40.0	34.56		ug/L		86	47 - 180
N-Nitrosodi-n-butylamine	40.0	30.94		ug/L		77	33 - 141
N-Nitrosodiethylamine	40.0	33.01		ug/L		83	30 - 160
N-Nitrosodimethylamine	40.0	17.02	J	ug/L		43	20 - 125
Naphthalene	40.0	31.13		ug/L		78	36 - 120
Nitrobenzene	40.0	33.71		ug/L		84	54 - 158
Pentachlorobenzene	40.0	30.47		ug/L		76	25 - 131
Pentachlorophenol	40.0	30.27		ug/L		76	38 - 152
Phenanthrene	40.0	37.35		ug/L		93	65 - 120
Phenol	40.0	15.72		ug/L		39	17 - 120
Pyrene	40.0	40.85		ug/L		102	70 - 120
Pyridine	80.0	11.76	J	ug/L		15	5 - 94
Bis(2-chloroethyl)ether	40.0	34.04		ug/L		85	43 - 126

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

Lab Sample ID: LCS 860-150805/2-A
Matrix: Water
Analysis Batch: 150908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150805

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bis(2-chloroethoxy)methane			40.0	33.41		ug/L		84	49 - 165		
Bis(2-ethylhexyl) phthalate			40.0	43.40		ug/L		109	29 - 137		
Di-n-butyl phthalate			40.0	41.41		ug/L		104	8 - 120		
Di-n-octyl phthalate			40.0	47.37		ug/L		118	19 - 132		
N-Nitrosodi-n-propylamine			40.0	34.76		ug/L		87	14 - 198		
N-Nitrosodiphenylamine			40.0	38.52		ug/L		96	2 - 196		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*41*		*28 - 114*
Phenol-d5 (Surr)	*29*		*8 - 424*
Nitrobenzene-d5 (Surr)	*81*		*15 - 314*
2-Fluorobiphenyl	*80*		*29 - 112*
2,4,6-Tribromophenol (Surr)	*91*		*31 - 132*
p-Terphenyl-d14 (Surr)	*92*		*20 - 141*

Lab Sample ID: LCSD 860-150805/3-A
Matrix: Water
Analysis Batch: 150908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150805

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			40.0	32.72		ug/L		82	41 - 125	4	30
1,2,4-Trichlorobenzene			40.0	28.52		ug/L		71	57 - 130	1	30
1,2-Diphenylhydrazine			40.0	41.08		ug/L		103	28 - 136	2	30
bis (2-chloroisopropyl) ether			40.0	38.23		ug/L		96	63 - 139	1	30
2,4,5-Trichlorophenol			40.0	34.37		ug/L		86	35 - 111	7	30
2,4,6-Trichlorophenol			40.0	35.10		ug/L		88	52 - 129	5	30
2,4-Dichlorophenol			40.0	33.69		ug/L		84	53 - 122	5	30
2,4-Dimethylphenol			40.0	40.90		ug/L		102	42 - 120	2	30
2,4-Dinitrophenol			40.0	28.22	J	ug/L		71	12 - 173	14	30
2,4-Dinitrotoluene			40.0	40.09		ug/L		100	48 - 127	9	25
2,6-Dinitrotoluene			40.0	35.80		ug/L		89	68 - 137	6	29
2-Chloronaphthalene			40.0	32.11		ug/L		80	65 - 120	4	15
2-Chlorophenol			40.0	28.74		ug/L		72	36 - 120	3	30
2-Nitrophenol			40.0	33.00		ug/L		82	45 - 167	1	30
o-Cresol			40.0	24.67		ug/L		62	14 - 176	6	30
m & p - Cresol			40.0	26.51		ug/L		66	14 - 176	9	30
3,3'-Dichlorobenzidine			40.0	41.62		ug/L		104	18 - 213	13	30
4,6-Dinitro-o-cresol			40.0	45.43	J	ug/L		114	53 - 130	11	30
4-Bromophenyl phenyl ether			40.0	36.26		ug/L		91	65 - 120	2	26
4-Chlorophenyl phenyl ether			40.0	34.17		ug/L		85	38 - 145	3	30
4-Nitrophenol			40.0	17.02	J	ug/L		43	13 - 129	18	30
p-Chloro-m-cresol			40.0	31.86		ug/L		80	41 - 128	4	30
Acenaphthene			40.0	35.45		ug/L		89	60 - 132	5	29
Acenaphthylene			40.0	35.43		ug/L		89	54 - 126	7	30
Aniline			40.0	22.96		ug/L		57	5 - 115	1	30
Anthracene			40.0	42.10		ug/L		105	43 - 120	8	30
Benzidine			40.0	7.117	J *-	ug/L		18	25 - 125	5	30
Benzo[a]anthracene			40.0	40.85		ug/L		102	42 - 133	10	30

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

Lab Sample ID: LCSD 860-150805/3-A
Matrix: Water
Analysis Batch: 150908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150805

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene			40.0	46.33		ug/L		116	32 - 148	10	30
Benzo[b]fluoranthene			40.0	43.81		ug/L		110	42 - 140	13	30
Benzo[g,h,i]perylene			40.0	43.95		ug/L		110	13 - 195	9	30
Benzo[k]fluoranthene			40.0	40.83		ug/L		102	25 - 146	5	30
Butyl benzyl phthalate			40.0	46.21		ug/L		116	12 - 140	10	30
Chrysene			40.0	38.76		ug/L		97	44 - 140	10	30
Dibenz(a,h)anthracene			40.0	46.46		ug/L		116	16 - 200	9	30
Diethyl phthalate			40.0	38.29		ug/L		96	17 - 120	7	30
Dimethyl phthalate			40.0	35.60		ug/L		89	25 - 120	6	30
Fluoranthene			40.0	44.57		ug/L		111	43 - 121	12	30
Fluorene			40.0	36.22		ug/L		91	70 - 120	4	23
Hexachlorobenzene			40.0	37.04		ug/L		93	8 - 142	5	30
Hexachlorobutadiene			40.0	26.38		ug/L		66	38 - 120	3	30
Hexachlorocyclopentadiene			40.0	43.29		ug/L		108	41 - 125	4	30
Hexachloroethane			40.0	24.36		ug/L		61	55 - 120	0	30
Indeno[1,2,3-cd]pyrene			40.0	46.98		ug/L		117	13 - 151	8	30
Isophorone			40.0	36.17		ug/L		90	47 - 180	5	30
N-Nitrosodi-n-butylamine			40.0	31.91		ug/L		80	33 - 141	3	30
N-Nitrosodiethylamine			40.0	33.38		ug/L		83	30 - 160	1	30
N-Nitrosodimethylamine			40.0	17.11	J	ug/L		43	20 - 125	1	30
Naphthalene			40.0	31.60		ug/L		79	36 - 120	2	30
Nitrobenzene			40.0	34.17		ug/L		85	54 - 158	1	30
Pentachlorobenzene			40.0	32.17		ug/L		80	25 - 131	5	30
Pentachlorophenol			40.0	34.25		ug/L		86	38 - 152	12	30
Phenanthrene			40.0	40.31		ug/L		101	65 - 120	8	30
Phenol			40.0	16.55		ug/L		41	17 - 120	5	30
Pyrene			40.0	43.58		ug/L		109	70 - 120	6	30
Pyridine			80.0	10.66	J	ug/L		13	5 - 94	10	30
Bis(2-chloroethyl)ether			40.0	34.67		ug/L		87	43 - 126	2	30
Bis(2-chloroethoxy)methane			40.0	33.97		ug/L		85	49 - 165	2	30
Bis(2-ethylhexyl) phthalate			40.0	47.63		ug/L		119	29 - 137	9	30
Di-n-butyl phthalate			40.0	46.00		ug/L		115	8 - 120	10	28
Di-n-octyl phthalate			40.0	51.99		ug/L		130	19 - 132	9	30
N-Nitrosodi-n-propylamine			40.0	36.78		ug/L		92	14 - 198	6	30
N-Nitrosodiphenylamine			40.0	39.21		ug/L		98	2 - 196	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*43*		*28 - 114*
Phenol-d5 (Surr)	*32*		*8 - 424*
Nitrobenzene-d5 (Surr)	*84*		*15 - 314*
2-Fluorobiphenyl	*83*		*29 - 112*
2,4,6-Tribromophenol (Surr)	*97*		*31 - 132*
p-Terphenyl-d14 (Surr)	*100*		*20 - 141*

Method: D7065-11 - Determination of Nonylphenols

Lab Sample ID: MB 280-647138/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 647441
Prep Batch: 647138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	ND	U	5000	1140	ng/L		03/26/24 12:09	03/28/24 10:59	1
Nonylphenol diethoxylate	ND	U	20000	4570	ng/L		03/26/24 12:09	03/28/24 10:59	1
Nonylphenol monoethoxylate	ND	U	10000	2050	ng/L		03/26/24 12:09	03/28/24 10:59	1
Bisphenol-A	ND	U	2100	1030	ng/L		03/26/24 12:09	03/28/24 10:59	1
4-tert-Octylphenol	ND	U	1000	280	ng/L		03/26/24 12:09	03/28/24 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-nonylphenol (Surr)	*77*		*58 - 115*	*03/26/24 12:09*	*03/28/24 10:59*	*1*
4-nonylphenol monoethoxylate (Surr)	*84*		*54 - 139*	*03/26/24 12:09*	*03/28/24 10:59*	*1*

Lab Sample ID: LCS 280-647138/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 647441
Prep Batch: 647138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonylphenol	51300	41650		ng/L		81	56 - 125
Nonylphenol diethoxylate	202000	175700		ng/L		87	54 - 128
Nonylphenol monoethoxylate	103000	109400		ng/L		106	57 - 125
Bisphenol-A	10100	6534		ng/L		64	52 - 125
4-tert-Octylphenol	10100	8257		ng/L		82	55 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-nonylphenol (Surr)	*94*		*58 - 115*
4-nonylphenol monoethoxylate (Surr)	*103*		*54 - 139*

Method: Organotins SIM - Organotins (GC/MS SIM)

Lab Sample ID: MB 570-421863/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 424204
Prep Batch: 421863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyltin	ND	U	3.00	1.14	ng/L		03/19/24 17:03	03/26/24 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tripentyltin	*66*		*10 - 120*	*03/19/24 17:03*	*03/26/24 12:47*	*1*

Lab Sample ID: LCS 570-421863/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 424204
Prep Batch: 421863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tributyltin	178	177.0		ng/L		99	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tripentyltin	*52*		*10 - 120*

Method: Organotins SIM - Organotins (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 570-421863/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 424204
Prep Batch: 421863

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tributyltin			178	190.4		ng/L		107	10 - 120	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tripentyltin	*53*		*10 - 120*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 860-150340/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 150874
Prep Batch: 150340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	U	0.0200	0.000814	ug/L		03/18/24 16:12	03/21/24 09:44	1
4,4'-DDE	ND	U	0.0200	0.00109	ug/L		03/18/24 16:12	03/21/24 09:44	1
4,4'-DDT	ND	U	0.00400	0.00379	ug/L		03/18/24 16:12	03/21/24 09:44	1
Aldrin	ND	U	0.00200	0.00113	ug/L		03/18/24 16:12	03/21/24 09:44	1
alpha-BHC	ND	U	0.00900	0.00142	ug/L		03/18/24 16:12	03/21/24 09:44	1
beta-BHC	ND	U	0.0180	0.00389	ug/L		03/18/24 16:12	03/21/24 09:44	1
Chlordane	ND	U	0.103	0.103	ug/L		03/18/24 16:12	03/21/24 09:44	1
delta-BHC	ND	U	0.250	0.00245	ug/L		03/18/24 16:12	03/21/24 09:44	1
Dicofol	ND	U	0.200	0.0500	ug/L		03/18/24 16:12	03/21/24 09:44	1
Dieldrin	ND	U	0.00400	0.000953	ug/L		03/18/24 16:12	03/21/24 09:44	1
Endosulfan I	ND	U	0.00200	0.00107	ug/L		03/18/24 16:12	03/21/24 09:44	1
Endosulfan II	ND	U	0.00400	0.00122	ug/L		03/18/24 16:12	03/21/24 09:44	1
Endosulfan sulfate	ND	U	0.0200	0.00112	ug/L		03/18/24 16:12	03/21/24 09:44	1
Endrin	ND	U	0.00400	0.00156	ug/L		03/18/24 16:12	03/21/24 09:44	1
Endrin aldehyde	ND	U	0.0200	0.00118	ug/L		03/18/24 16:12	03/21/24 09:44	1
Hexachlorocyclohexane	ND	U	0.0100	0.00299	ug/L		03/18/24 16:12	03/21/24 09:44	1
Heptachlor	ND	U	0.00446	0.00446	ug/L		03/18/24 16:12	03/21/24 09:44	1
Heptachlor epoxide	ND	U	0.00200	0.00134	ug/L		03/18/24 16:12	03/21/24 09:44	1
Methoxychlor	ND	U	0.0200	0.00390	ug/L		03/18/24 16:12	03/21/24 09:44	1
Mirex	ND	U	0.0200	0.0200	ug/L		03/18/24 16:12	03/21/24 09:44	1
Toxaphene	ND	U	0.0770	0.0769	ug/L		03/18/24 16:12	03/21/24 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*130*		*15 - 136*	*03/18/24 16:12*	*03/21/24 09:44*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*18 - 126*	*03/18/24 16:12*	*03/21/24 09:44*	*1*

Lab Sample ID: LCS 860-150340/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 150874
Prep Batch: 150340

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.100	0.1461	*+	ug/L		146	31 - 141		
4,4'-DDE			0.100	0.1340		ug/L		134	30 - 145		
4,4'-DDT			0.100	0.1397		ug/L		140	25 - 160		
Aldrin			0.100	0.1142		ug/L		114	42 - 140		
alpha-BHC			0.100	0.1191		ug/L		119	37 - 140		

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 860-150340/2-A
Matrix: Water
Analysis Batch: 150874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150340

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
beta-BHC			0.100	0.1307		ug/L		131	17 - 147		
delta-BHC			0.100	0.08681	J	ug/L		87	19 - 140		
Dieldrin			0.100	0.1219		ug/L		122	36 - 146		
Endosulfan I			0.100	0.1343		ug/L		134	45 - 153		
Endosulfan II			0.100	0.1399		ug/L		140	22 - 171		
Endosulfan sulfate			0.100	0.09852		ug/L		99	26 - 144		
Endrin			0.100	0.1401		ug/L		140	30 - 147		
Endrin aldehyde			0.100	0.1380	*+	ug/L		138	60 - 130		
Hexachlorocyclohexane			0.100	0.1296		ug/L		130	34 - 140		
Heptachlor			0.100	0.1590	*+	ug/L		159	34 - 140		
Heptachlor epoxide			0.100	0.1341		ug/L		134	37 - 142		
Methoxychlor			0.100	0.1632	*+	ug/L		163	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*153*	*S1+*	*15 - 136*
Tetrachloro-m-xylene (Surr)	*123*		*18 - 126*

Lab Sample ID: LCSD 860-150340/3-A
Matrix: Water
Analysis Batch: 150874

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150340

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.100	0.1405		ug/L		141	31 - 141	4	30
4,4'-DDE			0.100	0.1308		ug/L		131	30 - 145	2	30
4,4'-DDT			0.100	0.1339		ug/L		134	25 - 160	4	30
Aldrin			0.100	0.1120		ug/L		112	42 - 140	2	30
alpha-BHC			0.100	0.1156		ug/L		116	37 - 140	3	30
beta-BHC			0.100	0.1248		ug/L		125	17 - 147	5	30
delta-BHC			0.100	0.08247	J	ug/L		82	19 - 140	5	30
Dieldrin			0.100	0.1189		ug/L		119	36 - 146	3	30
Endosulfan I			0.100	0.1316		ug/L		132	45 - 153	2	30
Endosulfan II			0.100	0.1342		ug/L		134	22 - 171	4	30
Endosulfan sulfate			0.100	0.09556		ug/L		96	26 - 144	3	30
Endrin			0.100	0.1337		ug/L		134	30 - 147	5	30
Endrin aldehyde			0.100	0.1350	*+	ug/L		135	60 - 130	2	30
Hexachlorocyclohexane			0.100	0.1255		ug/L		126	34 - 140	3	30
Heptachlor			0.100	0.1552	*+	ug/L		155	34 - 140	2	30
Heptachlor epoxide			0.100	0.1311		ug/L		131	37 - 142	2	30
Methoxychlor			0.100	0.1590	*+	ug/L		159	50 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*142*	*S1+*	*15 - 136*
Tetrachloro-m-xylene (Surr)	*113*		*18 - 126*

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

Lab Sample ID: MB 860-150340/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 150683 — **Prep Batch: 150340**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	U	0.0400	0.0125	ug/L		03/18/24 16:12	03/20/24 16:36	1
PCB-1221	ND	U	0.0400	0.0125	ug/L		03/18/24 16:12	03/20/24 16:36	1
PCB-1232	ND	U	0.0400	0.0125	ug/L		03/18/24 16:12	03/20/24 16:36	1
PCB-1242	ND	U	0.0400	0.0125	ug/L		03/18/24 16:12	03/20/24 16:36	1
PCB-1248	ND	U	0.0400	0.0125	ug/L		03/18/24 16:12	03/20/24 16:36	1
PCB-1254	ND	U	0.0400	0.00780	ug/L		03/18/24 16:12	03/20/24 16:36	1
PCB-1260	ND	U	0.0400	0.00780	ug/L		03/18/24 16:12	03/20/24 16:36	1
Polychlorinated biphenyls, Total	ND	U	0.0400	0.0400	ug/L		03/18/24 16:12	03/20/24 16:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*18 - 126*	*03/18/24 16:12*	*03/20/24 16:36*	*1*
DCB Decachlorobiphenyl (Surr)	*122*		*15 - 136*	*03/18/24 16:12*	*03/20/24 16:36*	*1*

Lab Sample ID: LCS 860-150340/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 150683 — **Prep Batch: 150340**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			1.00	0.9508		ug/L		95	61 - 103		
PCB-1260			1.00	1.109		ug/L		111	37 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*88*		*18 - 126*
DCB Decachlorobiphenyl (Surr)	*136*		*15 - 136*

Lab Sample ID: LCSD 860-150340/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 150683 — **Prep Batch: 150340**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			1.00	0.9020		ug/L		90	61 - 103	5	24
PCB-1260			1.00	1.068		ug/L		107	37 - 130	4	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*77*		*18 - 126*
DCB Decachlorobiphenyl (Surr)	*132*		*15 - 136*

Method: 615 - Herbicides (GC)

Lab Sample ID: MB 860-150523/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 151087 — **Prep Batch: 150523**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	ND	U	0.200	0.0422	ug/L		03/18/24 12:56	03/23/24 03:44	1
2,4-D	ND	U	0.200	0.0539	ug/L		03/18/24 12:56	03/23/24 03:44	1

Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: MB 860-150523/1-A
Matrix: Water
Analysis Batch: 151087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150523

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	67		45 - 150	03/18/24 12:56	03/23/24 03:44	1

Lab Sample ID: LCS 860-150523/2-A
Matrix: Water
Analysis Batch: 151087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-TP (Silvex)	2.00	1.466		ug/L		73	55 - 140
2,4-D	2.00	1.401		ug/L		70	55 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	69		45 - 150

Lab Sample ID: LCSD 860-150523/3-A
Matrix: Water
Analysis Batch: 151087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150523

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)	2.00	1.549		ug/L		77	55 - 140	5	25
2,4-D	2.00	1.533		ug/L		77	55 - 145	9	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	71		45 - 150

Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-150532/1-A
Matrix: Water
Analysis Batch: 152881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150532

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND	U	5.00	1.85	ug/L		03/19/24 13:38	03/29/24 00:04	1
Diuron	ND	U	0.0900	0.0514	ug/L		03/19/24 13:38	03/29/24 00:04	1

Lab Sample ID: LCS 860-150532/2-A
Matrix: Water
Analysis Batch: 152881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbaryl	100	89.28		ug/L		89	70 - 130
Diuron	2.00	1.818		ug/L		91	70 - 130

Lab Sample ID: LCSD 860-150532/3-A
Matrix: Water
Analysis Batch: 152881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150532

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbaryl	100	91.26		ug/L		91	70 - 130	2	20
Diuron	2.00	1.858		ug/L		93	70 - 130	2	20

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-748976/1-A
Matrix: Water
Analysis Batch: 751471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 748976

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	10.0	0.283	pg/L		03/21/24 08:32	04/01/24 09:26	1
2,3,7,8-TCDF	ND	U	10.0	0.0582	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,7,8-PeCDD	ND	U	50.0	0.911	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,7,8-PeCDF	ND	U	50.0	0.402	pg/L		03/21/24 08:32	04/01/24 09:26	1
2,3,4,7,8-PeCDF	ND	U	50.0	0.429	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,4,7,8-HxCDD	ND	U	50.0	0.572	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,6,7,8-HxCDD	ND	U	50.0	0.596	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,7,8,9-HxCDD	ND	U	50.0	0.557	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,4,7,8-HxCDF	ND	U	50.0	0.397	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,6,7,8-HxCDF	ND	U	50.0	0.389	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,7,8,9-HxCDF	ND	U	50.0	0.331	pg/L		03/21/24 08:32	04/01/24 09:26	1
2,3,4,6,7,8-HxCDF	ND	U	50.0	0.351	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,4,6,7,8-HpCDD	ND	U	50.0	0.441	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,4,6,7,8-HpCDF	ND	U	50.0	0.787	pg/L		03/21/24 08:32	04/01/24 09:26	1
1,2,3,4,7,8,9-HpCDF	ND	U	50.0	0.732	pg/L		03/21/24 08:32	04/01/24 09:26	1
OCDD	ND	U	100	0.857	pg/L		03/21/24 08:32	04/01/24 09:26	1
OCDF	ND	U	100	0.680	pg/L		03/21/24 08:32	04/01/24 09:26	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*72*		*25 - 164*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,7,8-PeCDD	*68*		*25 - 181*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,7,8-PeCDF	*71*		*24 - 185*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-2,3,7,8-TCDF	*84*		*24 - 169*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,6,7,8-HxCDD	*69*		*28 - 130*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,7,8,9-HxCDF	*85*		*29 - 147*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*72*		*28 - 143*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-OCDF	*98*		*17 - 157*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,4,7,8-HxCDD	*71*		*32 - 141*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,6,7,8-HxCDF	*73*		*26 - 123*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-2,3,4,7,8-PeCDF	*72*		*21 - 178*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*78*		*23 - 140*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-OCDD	*85*		*17 - 157*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,4,7,8-HxCDF	*76*		*26 - 152*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-2,3,4,6,7,8-HxCDF	*77*		*28 - 136*	*03/21/24 08:32*	*04/01/24 09:26*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*89*		*26 - 138*	*03/21/24 08:32*	*04/01/24 09:26*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*110*		*35 - 197*	*03/21/24 08:32*	*04/01/24 09:26*	*1*

Lab Sample ID: LCS 320-748976/2-A
Matrix: Water
Analysis Batch: 751471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 748976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	200	253.3		pg/L		127	67 - 158
2,3,7,8-TCDF	200	277.2		pg/L		139	75 - 158
1,2,3,7,8-PeCDD	1000	1059		pg/L		106	70 - 142
1,2,3,7,8-PeCDF	1000	1122		pg/L		112	80 - 134

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-748976/2-A
Matrix: Water
Analysis Batch: 751471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 748976

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,3,4,7,8-PeCDF			1000	1114		pg/L		111	68 - 160		
1,2,3,4,7,8-HxCDD			1000	1081		pg/L		108	70 - 164		
1,2,3,6,7,8-HxCDD			1000	1106		pg/L		111	76 - 134		
1,2,3,7,8,9-HxCDD			1000	1180		pg/L		118	64 - 162		
1,2,3,4,7,8-HxCDF			1000	1165		pg/L		116	72 - 134		
1,2,3,6,7,8-HxCDF			1000	1172		pg/L		117	84 - 130		
1,2,3,7,8,9-HxCDF			1000	1181		pg/L		118	78 - 130		
2,3,4,6,7,8-HxCDF			1000	1183		pg/L		118	70 - 156		
1,2,3,4,6,7,8-HpCDD			1000	1005		pg/L		100	70 - 140		
1,2,3,4,6,7,8-HpCDF			1000	1122		pg/L		112	82 - 122		
1,2,3,4,7,8,9-HpCDF			1000	1061		pg/L		106	78 - 138		
OCDD			2000	2048		pg/L		102	78 - 144		
OCDF			2000	2115		pg/L		106	63 - 170		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*74*		*20 - 175*
13C-1,2,3,7,8-PeCDD	*74*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*79*		*21 - 192*
13C-2,3,7,8-TCDF	*90*		*22 - 152*
13C-1,2,3,6,7,8-HxCDD	*73*		*25 - 163*
13C-1,2,3,7,8,9-HxCDF	*92*		*17 - 205*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*21 - 158*
13C-OCDF	*108*		*13 - 199*
13C-1,2,3,4,7,8-HxCDD	*71*		*21 - 193*
13C-1,2,3,6,7,8-HxCDF	*77*		*21 - 159*
13C-2,3,4,7,8-PeCDF	*74*		*13 - 328*
13C-1,2,3,4,6,7,8-HpCDD	*85*		*26 - 166*
13C-OCDD	*92*		*13 - 199*
13C-1,2,3,4,7,8-HxCDF	*78*		*19 - 202*
13C-2,3,4,6,7,8-HxCDF	*83*		*22 - 176*
13C-1,2,3,4,7,8,9-HpCDF	*96*		*20 - 186*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*111*		*31 - 191*

Lab Sample ID: LCSD 320-748976/3-A
Matrix: Water
Analysis Batch: 751471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 748976

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD			200	251.1		pg/L		126	67 - 158	1	50
2,3,7,8-TCDF			200	280.9		pg/L		140	75 - 158	1	50
1,2,3,7,8-PeCDD			1000	1057		pg/L		106	70 - 142	0	50
1,2,3,7,8-PeCDF			1000	1114		pg/L		111	80 - 134	1	50
2,3,4,7,8-PeCDF			1000	1109		pg/L		111	68 - 160	0	50
1,2,3,4,7,8-HxCDD			1000	1051		pg/L		105	70 - 164	3	50
1,2,3,6,7,8-HxCDD			1000	1114		pg/L		111	76 - 134	1	50
1,2,3,7,8,9-HxCDD			1000	1202		pg/L		120	64 - 162	2	50

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-748976/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 751471
Prep Batch: 748976

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3,4,7,8-HxCDF			1000	1156		pg/L		116	72 - 134	1	50
1,2,3,6,7,8-HxCDF			1000	1189		pg/L		119	84 - 130	1	50
1,2,3,7,8,9-HxCDF			1000	1173		pg/L		117	78 - 130	1	50
2,3,4,6,7,8-HxCDF			1000	1182		pg/L		118	70 - 156	0	50
1,2,3,4,6,7,8-HpCDD			1000	988.4		pg/L		99	70 - 140	2	50
1,2,3,4,6,7,8-HpCDF			1000	1115		pg/L		112	82 - 122	1	50
1,2,3,4,7,8,9-HpCDF			1000	1070		pg/L		107	78 - 138	1	50
OCDD			2000	2046		pg/L		102	78 - 144	0	50
OCDF			2000	2096		pg/L		105	63 - 170	1	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*68*		*20 - 175*
13C-1,2,3,7,8-PeCDD	*65*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*70*		*21 - 192*
13C-2,3,7,8-TCDF	*81*		*22 - 152*
13C-1,2,3,6,7,8-HxCDD	*65*		*25 - 163*
13C-1,2,3,7,8,9-HxCDF	*84*		*17 - 205*
13C-1,2,3,4,6,7,8-HpCDF	*70*		*21 - 158*
13C-OCDF	*93*		*13 - 199*
13C-1,2,3,4,7,8-HxCDD	*65*		*21 - 193*
13C-1,2,3,6,7,8-HxCDF	*68*		*21 - 159*
13C-2,3,4,7,8-PeCDF	*65*		*13 - 328*
13C-1,2,3,4,6,7,8-HpCDD	*76*		*26 - 166*
13C-OCDD	*79*		*13 - 199*
13C-1,2,3,4,7,8-HxCDF	*70*		*19 - 202*
13C-2,3,4,6,7,8-HxCDF	*76*		*22 - 176*
13C-1,2,3,4,7,8,9-HpCDF	*85*		*20 - 186*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*110*		*31 - 191*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-748762/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 752984
Prep Batch: 748762

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-77	ND	U	20.0	1.52	pg/L		03/20/24 10:22	04/06/24 10:59	1
PCB-81	ND	U	20.0	1.64	pg/L		03/20/24 10:22	04/06/24 10:59	1
PCB-126	ND	U	20.0	0.327	pg/L		03/20/24 10:22	04/06/24 10:59	1
PCB-169	ND	U	20.0	0.135	pg/L		03/20/24 10:22	04/06/24 10:59	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-126L	*69*		*10 - 145*	*03/20/24 10:22*	*04/06/24 10:59*	*1*
PCB-169L	*82*		*10 - 145*	*03/20/24 10:22*	*04/06/24 10:59*	*1*
PCB-81L	*60*		*10 - 145*	*03/20/24 10:22*	*04/06/24 10:59*	*1*
PCB-77L	*62*		*10 - 145*	*03/20/24 10:22*	*04/06/24 10:59*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-748762/1-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 748762

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	67		5 - 145	03/20/24 10:22	04/06/24 10:59	1
PCB-111L	67		10 - 145	03/20/24 10:22	04/06/24 10:59	1
PCB-178L	77		10 - 145	03/20/24 10:22	04/06/24 10:59	1

Lab Sample ID: LCS 320-748762/2-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 748762

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-77			2000	1823		pg/L		91	60 - 135		
PCB-81			2000	1952		pg/L		98	60 - 135		
PCB-126			2000	1941		pg/L		97	60 - 135		
PCB-169			2000	1753		pg/L		88	60 - 135		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-126L	66		40 - 145
PCB-169L	77		40 - 145
PCB-81L	58		40 - 145
PCB-77L	58		40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	58		15 - 145
PCB-111L	58		40 - 145
PCB-178L	66		40 - 145

Lab Sample ID: LCSD 320-748762/3-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 748762

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-77			2000	1826		pg/L		91	60 - 135	0	50
PCB-81			2000	1987		pg/L		99	60 - 135	2	50
PCB-126			2000	1939		pg/L		97	60 - 135	0	50
PCB-169			2000	1751		pg/L		88	60 - 135	0	50

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
PCB-126L	58		40 - 145
PCB-169L	73		40 - 145
PCB-81L	55		40 - 145
PCB-77L	56		40 - 145

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
PCB-28L	62		15 - 145
PCB-111L	63		40 - 145
PCB-178L	70		40 - 145

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-665231/3-A
Matrix: Water
Analysis Batch: 665335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 665231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.500	0.200	ng/L		03/20/24 16:00	03/21/24 10:04	1

Lab Sample ID: LCS 400-665231/4-A
Matrix: Water
Analysis Batch: 665335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 665231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.225		ng/L		105	79 - 121

Lab Sample ID: LCSD 400-665231/5-A
Matrix: Water
Analysis Batch: 665335

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 665231

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	5.218		ng/L		104	79 - 121	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-149016/1-D
Matrix: Water
Analysis Batch: 150442

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 150158

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND	U	0.0500	0.0173	mg/L		03/17/24 13:00	03/18/24 18:48	1

Lab Sample ID: LCS 860-149016/2-C
Matrix: Water
Analysis Batch: 150442

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 150158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.9730		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-149016/3-C
Matrix: Water
Analysis Batch: 150442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 150158

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.00	0.9730		mg/L		97	85 - 115	0	20

Lab Sample ID: LLCS 860-150158/4-A
Matrix: Water
Analysis Batch: 150442

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 150158

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.0500	0.05260		mg/L		105	50 - 150

Method: 4500 CN G NonAm - Cyanide, Non-amenable

Lab Sample ID: MB 860-151204/4-A
Matrix: Water
Analysis Batch: 151354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Non-amenable	ND	U	0.00500	0.00233	mg/L		03/22/24 15:39	03/24/24 12:52	1

Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate

Lab Sample ID: MB 860-151515/24
Matrix: Water
Analysis Batch: 151515

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	U	0.00500	0.00198	mg/L			03/25/24 12:08	1

Lab Sample ID: MB 860-151515/94
Matrix: Water
Analysis Batch: 151515

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	U	0.00500	0.00198	mg/L			03/25/24 15:26	1

Lab Sample ID: LCS 860-151515/26
Matrix: Water
Analysis Batch: 151515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.100	0.1008		mg/L		101	90 - 110		

Lab Sample ID: LCSD 860-151515/96
Matrix: Water
Analysis Batch: 151515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			0.100	0.1005		mg/L		101	90 - 110	3	20

Lab Sample ID: LLCS 860-151515/25
Matrix: Water
Analysis Batch: 151515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.00500	0.006883		mg/L		138	50 - 150		

GC/MS VOA

Analysis Batch: 149796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	624.1	
MB 860-149796/10	Method Blank	Total/NA	Water	624.1	
LCS 860-149796/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 860-149796/4	Lab Control Sample Dup	Total/NA	Water	624.1	
860-69911-1 MS	6221-24 Hillsbors Permit Renewal	Total/NA	Water	624.1	

Analysis Batch: 149950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1 - RA	6221-24 Hillsbors Permit Renewal	Total/NA	Water	624.1	
MB 860-149950/9	Method Blank	Total/NA	Water	624.1	
LCS 860-149950/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 860-149950/4	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 150228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	625	
MB 860-150228/1-A	Method Blank	Total/NA	Water	625	
LCS 860-150228/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 860-150228/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 150257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-150228/1-A	Method Blank	Total/NA	Water	625.1	150228
LCS 860-150228/2-A	Lab Control Sample	Total/NA	Water	625.1	150228
LCSD 860-150228/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	150228

Analysis Batch: 150475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	625.1	150228

Prep Batch: 150805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1 - RE	6221-24 Hillsbors Permit Renewal	Total/NA	Water	625	
MB 860-150805/1-A	Method Blank	Total/NA	Water	625	
LCS 860-150805/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 860-150805/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 150908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1 - RE	6221-24 Hillsbors Permit Renewal	Total/NA	Water	625.1	150805
MB 860-150805/1-A	Method Blank	Total/NA	Water	625.1	150805
LCS 860-150805/2-A	Lab Control Sample	Total/NA	Water	625.1	150805
LCSD 860-150805/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	150805

Prep Batch: 421863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	Organotin	
MB 570-421863/1-A	Method Blank	Total/NA	Water	Organotin	
LCS 570-421863/2-A	Lab Control Sample	Total/NA	Water	Organotin	

GC/MS Semi VOA (Continued)

Prep Batch: 421863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-421863/3-A	Lab Control Sample Dup	Total/NA	Water	Organotin	

Analysis Batch: 424204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	Organotins SIM	421863
MB 570-421863/1-A	Method Blank	Total/NA	Water	Organotins SIM	421863
LCS 570-421863/2-A	Lab Control Sample	Total/NA	Water	Organotins SIM	421863
LCSD 570-421863/3-A	Lab Control Sample Dup	Total/NA	Water	Organotins SIM	421863

Prep Batch: 647138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	D7065-11	
MB 280-647138/1-A	Method Blank	Total/NA	Water	D7065-11	
LCS 280-647138/2-A	Lab Control Sample	Total/NA	Water	D7065-11	

Analysis Batch: 647441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	D7065-11	647138
MB 280-647138/1-A	Method Blank	Total/NA	Water	D7065-11	647138
LCS 280-647138/2-A	Lab Control Sample	Total/NA	Water	D7065-11	647138

GC Semi VOA

Prep Batch: 150340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	608	
MB 860-150340/1-A	Method Blank	Total/NA	Water	608	
LCS 860-150340/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 860-150340/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 860-150340/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 860-150340/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Prep Batch: 150523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	3511	
MB 860-150523/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-150523/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-150523/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 150683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-150340/1-A	Method Blank	Total/NA	Water	608.3	150340
LCS 860-150340/4-A	Lab Control Sample	Total/NA	Water	608.3	150340
LCSD 860-150340/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	150340

Analysis Batch: 150868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	608.3	150340

GC Semi VOA

Analysis Batch: 150874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-150340/1-A	Method Blank	Total/NA	Water	608.3	150340
LCS 860-150340/2-A	Lab Control Sample	Total/NA	Water	608.3	150340
LCSD 860-150340/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	150340

Analysis Batch: 151087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	615	150523
MB 860-150523/1-A	Method Blank	Total/NA	Water	615	150523
LCS 860-150523/2-A	Lab Control Sample	Total/NA	Water	615	150523
LCSD 860-150523/3-A	Lab Control Sample Dup	Total/NA	Water	615	150523

Analysis Batch: 151403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	608.3	150340

HPLC/IC

Prep Batch: 150532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	CWA_Prep	
MB 860-150532/1-A	Method Blank	Total/NA	Water	CWA_Prep	
LCS 860-150532/2-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCSD 860-150532/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 152881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	632	150532
MB 860-150532/1-A	Method Blank	Total/NA	Water	632	150532
LCS 860-150532/2-A	Lab Control Sample	Total/NA	Water	632	150532
LCSD 860-150532/3-A	Lab Control Sample Dup	Total/NA	Water	632	150532

Specialty Organics

Prep Batch: 748762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	HRMS-Sep	
MB 320-748762/1-A	Method Blank	Total/NA	Water	HRMS-Sep	
LCS 320-748762/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
LCSD 320-748762/3-A	Lab Control Sample Dup	Total/NA	Water	HRMS-Sep	

Prep Batch: 748976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	1613B	
MB 320-748976/1-A	Method Blank	Total/NA	Water	1613B	
LCS 320-748976/2-A	Lab Control Sample	Total/NA	Water	1613B	
LCSD 320-748976/3-A	Lab Control Sample Dup	Total/NA	Water	1613B	

Analysis Batch: 751471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-748976/1-A	Method Blank	Total/NA	Water	1613B	748976
LCS 320-748976/2-A	Lab Control Sample	Total/NA	Water	1613B	748976
LCSD 320-748976/3-A	Lab Control Sample Dup	Total/NA	Water	1613B	748976

Specialty Organics

Analysis Batch: 752263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	1613B	748976

Analysis Batch: 752982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	1668C	748762

Analysis Batch: 752984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-748762/1-A	Method Blank	Total/NA	Water	1668C	748762
LCS 320-748762/2-A	Lab Control Sample	Total/NA	Water	1668C	748762
LCSD 320-748762/3-A	Lab Control Sample Dup	Total/NA	Water	1668C	748762

Metals

Filtration Batch: 149016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-149016/1-D	Method Blank	Total Recoverable	Water	Filtration	
LCS 860-149016/2-C	Lab Control Sample	Total Recoverable	Water	Filtration	
LCSD 860-149016/3-C	Lab Control Sample Dup	Total Recoverable	Water	Filtration	

Prep Batch: 150158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total Recoverable	Water	200.7	
MB 860-149016/1-D	Method Blank	Total Recoverable	Water	200.7	149016
LCS 860-149016/2-C	Lab Control Sample	Total Recoverable	Water	200.7	149016
LCSD 860-149016/3-C	Lab Control Sample Dup	Total Recoverable	Water	200.7	149016
LLCS 860-150158/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 150442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total Recoverable	Water	200.7 Rev 4.4	150158
MB 860-149016/1-D	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	150158
LCS 860-149016/2-C	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	150158
LCSD 860-149016/3-C	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	150158
LLCS 860-150158/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	150158

Prep Batch: 665231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	1631E	
MB 400-665231/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-665231/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-665231/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 665335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	1631E	665231
MB 400-665231/3-A	Method Blank	Total/NA	Water	1631E	665231
LCS 400-665231/4-A	Lab Control Sample	Total/NA	Water	1631E	665231
LCSD 400-665231/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	665231

QC Association Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

General Chemistry

Prep Batch: 151204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	Distill/CN	
MB 860-151204/4-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 860-151204/5-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCSD 860-151204/6-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	

Analysis Batch: 151354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	4500 CN G NonAm	151204
MB 860-151204/4-A	Method Blank	Total/NA	Water	4500 CN G NonAm	151204
LCS 860-151204/5-A	Lab Control Sample	Total/NA	Water	4500 CN G NonAm	151204
LCSD 860-151204/6-A	Lab Control Sample Dup	Total/NA	Water	4500 CN G NonAm	151204

Analysis Batch: 151515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	Kelada 01	
MB 860-151515/24	Method Blank	Total/NA	Water	Kelada 01	
MB 860-151515/94	Method Blank	Total/NA	Water	Kelada 01	
LCS 860-151515/26	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 860-151515/96	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
LLCS 860-151515/25	Lab Control Sample	Total/NA	Water	Kelada 01	

Analysis Batch: 151833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69911-1	6221-24 Hillsbors Permit Renewal	Total/NA	Water	SM 4500 CN G	

Lab Chronicle

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Client Sample ID: 6221-24 Hillsbors Permit Renewal
Lab Sample ID: 860-69911-1

Date Collected: 03/12/24 10:00
Matrix: Water
Date Received: 03/13/24 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	149796	03/15/24 00:32	AN	EET HOU
Total/NA	Analysis	624.1	RA	1	5 mL	5 mL	149950	03/15/24 15:01	AN	EET HOU
Total/NA	Prep	625			1000 mL	1.00 mL	150228	03/18/24 09:27	DR	EET HOU
Total/NA	Analysis	625.1		1	1 mL	1 mL	150475	03/19/24 15:27	PXS	EET HOU
Total/NA	Prep	625	RE		1000 mL	1.00 mL	150805	03/20/24 16:17	DR	EET HOU
Total/NA	Analysis	625.1	RE	1	1 mL	1 mL	150908	03/22/24 00:57	PXS	EET HOU
Total/NA	Prep	D7065-11			990.3 mL	1 mL	647138	03/26/24 12:09	EDW	EET DEN
Total/NA	Analysis	D7065-11		1	200 uL	200 uL	647441	03/28/24 16:52	MAB	EET DEN
Total/NA	Prep	Organotin			1014.8 mL	1 mL	421863	03/19/24 17:03	UWEZ	EET CAL 4
Total/NA	Analysis	Organotins SIM		1	1 mL	1 mL	424204	03/26/24 13:05	ULLI	EET CAL 4
Total/NA	Prep	608			1000 mL	1 mL	150340	03/19/24 14:10	BH	EET HOU
Total/NA	Analysis	608.3		1			150868	03/21/24 10:25	WP	EET HOU
Total/NA	Prep	608			1000 mL	1 mL	150340	03/19/24 14:10	BH	EET HOU
Total/NA	Analysis	608.3		1			151403	03/25/24 11:48	WP	EET HOU
Total/NA	Prep	3511			50 mL	4 mL	150523	03/19/24 12:59	TH	EET HOU
Total/NA	Analysis	615		1			151087	03/23/24 07:13	WP	EET HOU
Total/NA	Prep	CWA_Prep			1000 mL	10 mL	150532	03/19/24 13:38	DR	EET HOU
Total/NA	Analysis	632		1			152881	03/29/24 03:54	YG	EET HOU
Total/NA	Prep	1613B			1005.2 mL	20.0 uL	748976	03/21/24 08:32	GSH	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	752263	04/04/24 08:30	CB	EET SAC
Total/NA	Prep	HRMS-Sep			1027.6 mL	20.0 uL	748762	03/20/24 10:22	GSH	EET SAC
Total/NA	Analysis	1668C		1	1 uL	1 uL	752982	04/06/24 06:28	JBC	EET SAC
Total/NA	Prep	1631E			40 mL	40 mL	665231	03/19/24 16:17	VLC	EET PEN
							Completed:	03/20/24 09:00 [1]		
Total/NA	Analysis	1631E		1			665335	03/21/24 11:51	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	150158	03/17/24 13:00	MD	EET HOU
Total Recoverable	Analysis	200.7 Rev 4.4		1			150442	03/18/24 19:14	JDM	EET HOU
Total/NA	Prep	Distill/CN			6 mL	6 mL	151204	03/22/24 15:39	SA	EET HOU
Total/NA	Analysis	4500 CN G NonAm		1			151354	03/24/24 13:46	HN	EET HOU
Total/NA	Analysis	Kelada 01		1	50 mL	50 mL	151515	03/25/24 13:36	AA	EET HOU
Total/NA	Analysis	SM 4500 CN G		1			151833	03/27/24 09:48	SC	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

Ana-Lab Co = Ana-Lab Corporation, 2600 Dudley Rd, Kilgore, TX 75662

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

EMLab P&K = EMLab P&K, Subcont.report available upon request, 3113 Red Bluff Road, Pasadena, TX 77503

Accreditation/Certification Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-24
California	Los Angeles County Sanitation Districts	10109	08-01-24
California	State	3082	07-31-24
Kansas	NELAP	E-10420	08-01-24
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-03-25
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-24

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704183-23-23	09-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D7065-11	D7065-11	Water	4-tert-Octylphenol
D7065-11	D7065-11	Water	Bisphenol-A
D7065-11	D7065-11	Water	Nonylphenol
D7065-11	D7065-11	Water	Nonylphenol diethoxylate
D7065-11	D7065-11	Water	Nonylphenol monoethoxylate

Laboratory: Eurofins Pensacola

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704286	09-30-24

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468	01-20-27

Accreditation/Certification Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Laboratory: Eurofins Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0708	08-11-24
Arkansas DEQ	State	88-0691	05-18-24
California	State	2897	01-31-26
Colorado	State	CA00044	08-31-24
Florida	NELAP	E87570	06-30-24
Georgia	State	4040	01-29-25
Hawaii	State	Eurofins Sacramento	01-29-25
Illinois	NELAP	200060	03-31-25
Kansas	NELAP	E-10375	10-31-24
Louisiana	NELAP	01944	06-30-24
Louisiana (All)	NELAP	01944	06-30-24
Maine	State	CA00004	04-14-24
Michigan	State	9947	01-29-25
Nevada	State	CA00044	07-31-24
New Hampshire	NELAP	2997	04-18-24
New Jersey	NELAP	CA005	06-30-24
New York	NELAP	11666	04-01-25
Ohio	State	41252	01-29-25
Oregon	NELAP	4040	01-29-25
Texas	NELAP	T104704399-23-17	05-31-24
US Fish & Wildlife	US Federal Programs	A22139	04-30-24
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-25
Virginia	NELAP	460278	03-14-25
Washington	State	C581	05-05-24
West Virginia (DW)	State	9930C	01-31-25
Wisconsin	State	998204680	08-31-24
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET HOU
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET HOU
D7065-11	Determination of Nonylphenols	ASTM	EET DEN
Organotins SIM	Organotins (GC/MS SIM)	Lab SOP	EET CAL 4
608.3	Organochlorine Pesticides in Water	EPA	EET HOU
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET HOU
615	Herbicides (GC)	EPA-01	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
1613B	Dioxins and Furans (HRGC/HRMS)	EPA	EET SAC
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	EET SAC
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET HOU
4500 CN G NonAm	Cyanide, Non-amenable	SM	EET HOU
Kelada 01	Cyanide, Total, Acid Dissociable and Thiocyanate	EPA	EET HOU
SM 4500 CN G	Cyanide, Amenable	SM	EET HOU
100.2	EPA 100.2 Asbestos in Drinking Water	EPA	EMLab P&K
604.1	EPA 604.1 - Hexachlorophene	EPA	Ana-Lab Co
614	EPA 614 - Organophosphorus Pesticides	EPA	Ana-Lab Co
1613B	Separatory Funnel (L/L) Extraction with Soxhlet Extraction of Dioxin and Furans	EPA	EET SAC
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.7	Preparation, Total Recoverable Metals	EPA	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
625	Liquid-Liquid Extraction	EPA	EET HOU
CWA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
D7065-11	Liquid-Liquid Extraction (Continuous)	ASTM	EET DEN
Distill/CN	Distillation, Cyanide	None	EET HOU
HRMS-Sep	Separatory Funnel (Liquid-Liquid) Extraction	EPA	EET SAC
Organotin	Extraction (Organotins)	WRC	EET CAL 4

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.
Lab SOP = Laboratory Standard Operating Procedure
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WRC = WRC Notebook 11431-39, ICI America's Western Research Center May, 1989.

Laboratory References:

Ana-Lab Co = Ana-Lab Corporation, 2600 Dudley Rd, Kilgore, TX 75662
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
EMLab P&K = EMLab P&K, Subcont.report available upon request, 3113 Red Bluff Road, Pasadena, TX 77503

Sample Summary

Client: Bio Chem Lab, Inc
Job ID: 860-69911-1
Project/Site: City of Hillsboro Permit Renewal

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-69911-1	6221-24 Hillsbors Permit Renewal	Water	03/12/24 10:00	03/13/24 14:35

Eurofins J3 Resources, Inc.
6110 W. 34th Street, Houston, Texas 77092
Phone: (713) 290-0221 Fax: (713) 290-0248

Asbestos in Water by Transmission Electron Microscopy (TEM)
EPA/600/R-94/134 - (EPA 100.2)

Travis Richter
Eurofins XENCO Laboratories
4143 Greenbriar Drive
Stafford, TX 77477

Order #: 3573937
Project #: 86006551
Receipt Date/Time: 03-15-2024 18:35
Analysis Date: 03/25/2024
Report Date: 03/25/2024

City of Hillsboro Permit Renewal

Client Sample ID	Sample Collection Date/Time	Sample Filtration Date/Time	Aliquot Volume (mL)	Dilution Factor	Asbestos Structures (> 0.5 µm)	Asbestos Structures (> 10 µm)	Asbestos Type	Analytical Sensitivity	Asbestos Concentration	95% Confidence Limits (Lower - Upper)
*6221-24 Hillsboro Permit Renewal (860-69911-1)	3/12/24 10:00	3/18/24 12:50	70	1	0	0	**None Detected**	0.19	**< 0.19**	**< 0.19 - 0.72 MFL**

Analyst: Taylor Smylie

Scott M. Ward, Ph.D. Lab Director

This report relates only to the samples tested. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). All samples received in good condition and filtered within 48 hours of receipt unless otherwise noted. Only asbestos structures greater than 10µm are considered in calculating asbestos concentration in MFL. This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. mL = Milliliters; MFL = Million Fibers per Liter; N/A = Not Applicable
* - Indicates sample was received outside of holding time for method.

NVLAP Lab Code: 200525-0 **TDSHS License: 30-0273**

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

Project
1095724

TABM-G

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Printed 03/26/2024
9:48

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1095724_r03_03_ProjectResults	SPL Kilgore Project P:1095724 C:TABM Project Results t:304 PO: US1313021524	3
1095724_r10_05_ProjectQC	SPL Kilgore Project P:1095724 C:TABM Project Quality Control Groups	3
1095724_r99_09_CoC__1_of_1	SPL Kilgore CoC TABM 1095724_1_of_1	5
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2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
*Office: 903-984-0551 * Fax: 903-984-5914*

SAMPLE CROSS REFERENCE

Project
1095724

Printed 3/26/2024 Page 1 of 1
ww

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Sample	Sample ID	Taken	Time	Received
2281758	*(860-69911-1)*	03/12/2024	10:00:00	03/15/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1109805) Volume: 1.00000 mL <== Derived from 02 (983 ml)
Bottle 04 Prepared Bottle: 2 mL Autosampler Vial (Batch 1109991) Volume: 5.00000 mL <== Derived from 01 (993 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 604.1	04	1109991	03/19/2024	1110422	03/20/2024
EPA 614	03	1109805	03/18/2024	1111016	03/21/2024
EPA 622	03	1109805	03/18/2024	1111003	03/21/2024

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL The Science of Sure®

TABM-G

Project 1095724

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Printed: 03/26/2024

RESULTS

Sample Results

2281758 (860-69911-1) 6221-24 HILLSBORS PERMIT RENEW Received: 03/15/2024

Non-Potable Water Collected by: Client Eurofins Test Americ PO: US1313021524
Taken: 03/12/2024 10:00:00

EPA 604.1 Prepared: 1109991 03/19/2024 13:00:00 Analyzed 1110422 03/20/2024 20:53:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Hexachlorophene	<1.26	ug/L	1.26		70-30-4	04

EPA 614 Prepared: 1109805 03/18/2024 14:20:00 Analyzed 1111016 03/21/2024 01:52:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0509	ug/L	0.0509		86-50-0	03
NELAC	Demeton	<0.0509	ug/L	0.0509		8065-48-3	03
NELAC	Diazinon	<0.0509	ug/L	0.0509		333-41-5	03
NELAC	Malathion	<0.0509	ug/L	0.0509		121-75-5	03
NELAC	Parathion, ethyl	<0.0509	ug/L	0.0509		56-38-2	03
NELAC	Parathion, methyl	<0.050	ug/L	0.050		298-00-0	03

EPA 622 Prepared: 1109805 03/18/2024 14:20:00 Analyzed 1111003 03/21/2024 01:52:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chlorpyrifos	<0.050	ug/L	0.050		2921-88-2	03

Sample Preparation

2281758 (860-69911-1) 6221-24 HILLSBORS PERMIT RENEW Received: 03/15/2024

US1313021524

03/12/2024

Prepared: 03/18/2024 09:43:22 Calculated 03/18/2024 09:43:22 CAL

z	Environmental Fee (per Project)	Verified

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL The Science of Sure®

TABM-G

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Project
1095724

Printed: 03/26/2024

2281758 (860-69911-1) 6221-24 HILLSBORS PERMIT RENEW Received: 03/15/2024

US1313021524

03/12/2024

EPA 604.1	*Prepared:*	*1109991*	*03/19/2024*	*13:00:00*	*Analyzed*	*1109991*	*03/19/2024*	*13:00:00*	*MCC*	
Hexachlorophene Extraction	**5/993**	**ml**								01
EPA 604.1	*Prepared:*	*1109991*	*03/19/2024*	*13:00:00*	*Analyzed*	*1110422*	*03/20/2024*	*20:53:00*	*BRU*	
Hexachlorophene Expansion	**Entered**						**70-30-4**			04
EPA 608.3	*Prepared:*	*1109805*	*03/18/2024*	*14:20:00*	*Analyzed*	*1109805*	*03/18/2024*	*14:20:00*	*MCC*	
Solvent Extraction	**1/983**	**ml**								02
EPA 614	*Prepared:*	*1109805*	*03/18/2024*	*14:20:00*	*Analyzed*	*1111016*	*03/21/2024*	*01:52:00*	*KAP*	
z **Permit Organophos. Pesticides**	**Entered**									03
EPA 622	*Prepared:*	*1109805*	*03/18/2024*	*14:20:00*	*Analyzed*	*1111003*	*03/21/2024*	*01:52:00*	*KAP*	
NELAC **For use with EXP !CPP only**	**Entered**									03

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
*Office: 903-984-0551 * Fax: 903-984-5914*

TABM-G

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Project
1095724

Printed: 03/26/2024

Qualifiers:

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

TABM-G

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Project
1095724

Printed 03/26/2024

Analytical Set 1110422 — EPA 604.1

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Hexachlorophene	1109991	ND	0.890	1.25	ug/L	126121548

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Hexachlorophene	5070	5000	ug/L	101	70.0 - 130	126121547
Hexachlorophene	5260	5000	ug/L	105	70.0 - 130	126121554
Hexachlorophene	5430	5000	ug/L	109	70.0 - 130	126121557
Hexachlorophene	5420	5000	ug/L	108	70.0 - 130	126121560

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Hexachlorophene	1109991	43.8	53.7	50.0	25.5 - 145	87.6	107	ug/L	19.9	50.0

Analytical Set 1111003 — EPA 622

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Chlorpyrifos	1109805	ND	0.0904	50.0	ug/L	126135522

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Chlorpyrifos	968	1000	ug/L	96.8	48.0 - 150	126135521
Chlorpyrifos	1190	1000	ug/L	119	48.0 - 150	126135532
Chlorpyrifos	1180	1000	ug/L	118	48.0 - 150	126135539

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Chlorpyrifos	1109805	653	632	1000	0.100 - 128	65.3	63.2	ug/L	3.27	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributylphosphate		CCV	980	1000	ug/L	98.0	0.100 - 115	126135521
Tributylphosphate		CCV	1140	1000	ug/L	114	0.100 - 115	126135532
Tributylphosphate		CCV	1130	1000	ug/L	113	0.100 - 115	126135539
Triphenylphosphate		CCV	964	1000	ug/L	96.4	0.100 - 115	126135521
Triphenylphosphate		CCV	1200	1000	ug/L	120 *	0.100 - 115	126135532
Triphenylphosphate		CCV	1260	1000	ug/L	126 *	0.100 - 115	126135539
Tributylphosphate	1109805	Blank	601	1000	ug/L	60.1	0.100 - 115	126135522
Tributylphosphate	1109805	LCS	611	1000	ug/L	61.1	0.100 - 115	126135523
Tributylphosphate	1109805	LCS Dup	610	1000	ug/L	61.0	0.100 - 115	126135524
Triphenylphosphate	1109805	Blank	630	1000	ug/L	63.0	0.100 - 115	126135522
Triphenylphosphate	1109805	LCS	649	1000	ug/L	64.9	0.100 - 115	126135523
Triphenylphosphate	1109805	LCS Dup	644	1000	ug/L	64.4	0.100 - 115	126135524

Analytical Set 1111016 — EPA 614

QUALITY CONTROL

TABM-G

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Project
1095724

Printed 03/26/2024

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1109805	ND	41.4	50.0	ug/L	126135811
Demeton	1109805	ND	31.9	50.0	ug/L	126135811
Diazinon	1109805	ND	19.7	50.0	ug/L	126135811
Malathion	1109805	ND	24.8	50.0	ug/L	126135811
Parathion, ethyl	1109805	ND	23.9	50.0	ug/L	126135811
Parathion, methyl	1109805	ND	27.4	50.0	ug/L	126135811

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	981	1000	ug/L	98.1	37.5 - 164	126135810
Azinphos-methyl (Guthion)	1110	1000	ug/L	111	37.5 - 164	126135821
Azinphos-methyl (Guthion)	1060	1000	ug/L	106	37.5 - 164	126135828
Demeton	981	1000	ug/L	98.1	58.6 - 150	126135810
Demeton	1140	1000	ug/L	114	58.6 - 150	126135821
Demeton	1140	1000	ug/L	114	58.6 - 150	126135828
Diazinon	1030	1000	ug/L	103	65.4 - 138	126135810
Diazinon	1130	1000	ug/L	113	65.4 - 138	126135821
Diazinon	1230	1000	ug/L	123	65.4 - 138	126135828
Malathion	952	1000	ug/L	95.2	49.5 - 160	126135810
Malathion	1170	1000	ug/L	117	49.5 - 160	126135821
Malathion	1220	1000	ug/L	122	49.5 - 160	126135828
Parathion, ethyl	968	1000	ug/L	96.8	56.0 - 142	126135810
Parathion, ethyl	1060	1000	ug/L	106	56.0 - 142	126135821
Parathion, ethyl	1060	1000	ug/L	106	56.0 - 142	126135828
Parathion, methyl	975	1000	ug/L	97.5	12.6 - 194	126135810
Parathion, methyl	1020	1000	ug/L	102	12.6 - 194	126135821
Parathion, methyl	981	1000	ug/L	98.1	12.6 - 194	126135828

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1109805	646	702	1000	0.100 - 155	64.6	70.2	ug/L	8.31	30.0
Demeton	1109805	475	448	1000	0.100 - 109	47.5	44.8	ug/L	5.85	30.0
Diazinon	1109805	521	517	1000	0.100 - 125	52.1	51.7	ug/L	0.771	30.0
Malathion	1109805	785	798	1000	0.100 - 130	78.5	79.8	ug/L	1.64	30.0
Parathion, ethyl	1109805	793	776	1000	0.100 - 122	79.3	77.6	ug/L	2.17	30.0
Parathion, methyl	1109805	635	621	1000	0.100 - 131	63.5	62.1	ug/L	2.23	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	980	2000	ug/L	49.0	0.100 - 106	126135810
Tributylphosphate		CCV	1140	2000	ug/L	57.0	0.100 - 106	126135821
Tributylphosphate		CCV	1130	2000	ug/L	56.5	0.100 - 106	126135828
Triphenylphosphate		CCV	964	2000	ug/L	48.2	0.100 - 172	126135810
Triphenylphosphate		CCV	1200	2000	ug/L	60.0	0.100 - 172	126135821
Triphenylphosphate		CCV	1260	2000	ug/L	63.0	0.100 - 172	126135828
Tributylphosphate	1109805	Blank	601	2000	ug/L	30.0	0.100 - 106	126135811

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

TABM-G

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Project
1095724

Printed 03/26/2024

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributylphosphate	1109805	LCS	611	2000	ug/L	30.6	0.100 - 106	126135812
Tributylphosphate	1109805	LCS Dup	610	2000	ug/L	30.5	0.100 - 106	126135813
Triphenylphosphate	1109805	Blank	630	2000	ug/L	31.5	0.100 - 172	126135811
Triphenylphosphate	1109805	LCS	649	2000	ug/L	32.4	0.100 - 172	126135812
Triphenylphosphate	1109805	LCS Dup	644	2000	ug/L	32.2	0.100 - 172	126135813
Tributylphosphate	2281758	Unknown	0.831	2.03	ug/L	40.9	0.100 - 106	126135820
Triphenylphosphate	2281758	Unknown	0.832	2.03	ug/L	41.0	0.100 - 172	126135820

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.)

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 860-104553.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Ana-Lab Corporation		Accreditations Required (See note): NELAP - Texas		Job #: 860-69911-1
Address: 2600 Dudley Rd, ,	Due Date Requested: 3/22/2024			
City: Kilgore	TAT Requested (days):			
State, Zip: TX, 75662				
Phone:	PO #:			
Email:	WO #:			
Project Name: City of Hillsboro Permit Renewal	Project #: 86006551			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Hexachlorophene)/ Hexachlorophene	SUB (Table 4.0 (1) - Organophosphorous Pesticides (GC))/ OrganoPhos Pesticides	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
6221-24 Hillsbors Permit Renewal (860-69911-1)	3/12/24	10:00 Central		Water			X	X	2	See Attached Instructions

2281758

See Attached for Tracking # and Temp

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Linda Fed Ex	3/14/24		Fed Ex	3/14/24	
Relinquished by: Fed Ex	Date/Time: 3/15/24 1015		Received by: Kayshaun	Date/Time: 3/15/24 1015	
Relinquished by:	Date/Time:		Received by:	Date/Time:	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

ICOC No:
860-104553

Containers

Count	Container Type	Preservative
2	Amber Glass 1 liter - unpreserved	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB (Hexachlorophene)/ Hexachlorophene	Hexachlorophene
1	SUBCONTRACT	SUB (Table 4.0 (1) - Organophosphorous Pesticides (GC))/ OrganoPhos Pesticides	Guthion, Chlorpyrifos, Demeton, Diazinon, Malation, Ethyl Parathion

Bottle Order Information

Bottle Order:
Bottle Order #:
Request From Client: 3/14/2024
Date Order Posted:
Order Status: *Ready To Process*
Prepared By:
Deliver By Date: ***3/14/2024 11:59:00PM***
Lab Project Number:
PWSID:

Order Completion Information

Creator: *Lisandra Torrez*
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #

Notes to Field Staff:

Scan QR code for field sampler instructions

Health and Safety Notes:

Preservative	Comment

Relinquished By	Company	Date	Time	Received By	Company	Seal #: Seal #: Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #: Seal #: Seal #:

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Shipping Order Form

eurofins | Environment Testing

S 8 6 0 - 2 7 7 3 8

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Shipping Order ID: 27738 **Ship Via: FedEx Priority Overnight** **Due On: 3/14/2024 11:59:00PM**

Ship To Information

Project Manager:

Company Name: Ana-Lab Corporation
Attention: Shipping/Receiving
Address 1: 2600 Dudley Rd
Address 2:
Address 3:
City: Kilgore
State: TX
Zip: 75662
Phone #:
Project Ref:

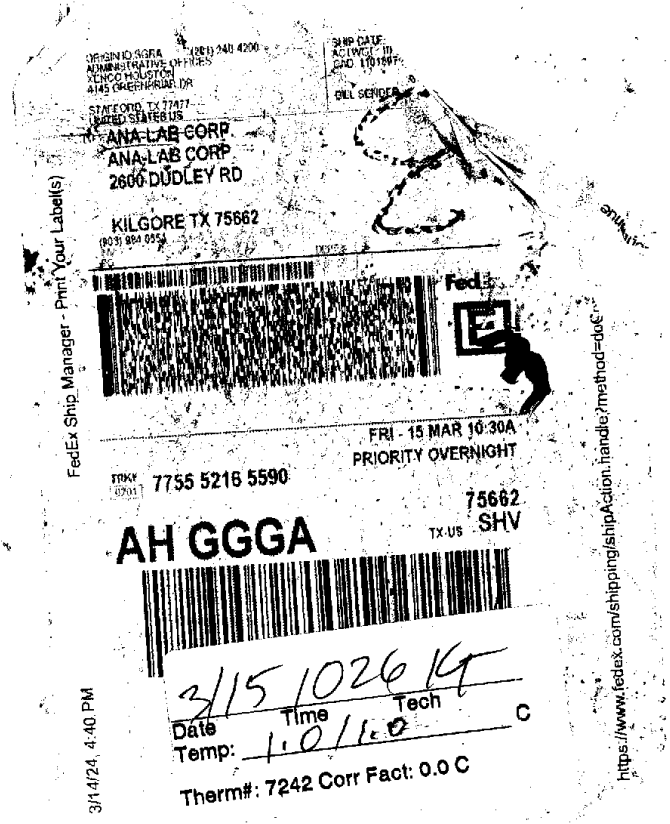
Notes to Bottle/Shipping Department

Shipping Method: **Standard packing**

- ☑ Ready to Fill
- ☐ Preprinted COC
  - ☐ Number of COC Copies
- ☐ Seals on Bottle
- ☐ Seals on Coolers
- ☐ Priority
- ☐ Return Shipment Labels
  - ☐ Prepaid Return Eurofins Houston
- ☐ Short Hold Times
- ☑ Temperature Control
- ☐ Rush

Min Due Date: 3/19/2024 11:59:00PM

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.


FedEx Ship Manager - Print Your Label(s)
ANA-LAB CORP
ANA-LAB CORP
2600 DUDLEY RD
KILGORE TX 75662
FedEx
FRI - 15 MAR 10:30A
PRIORITY OVERNIGHT
7755 5216 5590
75662
SHV
TX-US
AH GGGA
3/15 1026 KT
Date Time Tech
Temp: 1.0/1.0 C
Therm#: 7242 Corr Fact: 0.0 C
3/14/24, 4:40 PM
https://www.fedex.com/shipping/shipAction.handle?method=doC

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Gibby Ficke	Lab PM: Richter Travis W	Carrier Tracking No(s):	COC No: 860-27593-9335.1
Client Contact: A. Shay Ochoa	Phone: 254 829 8001	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Bio Chem Lab, Inc	PWSID:			Job #:
Address: 4751 Tokio Rd	Due Date Requested:	Analysis Requested		
City: West	TAT Requested (days):			
State, Zip: TX, 76691	Compliance Project: Δ Yes Δ No			
Phone: 254-829-8001(Tel)	PO #: Purchase Order Requested			
Email: aochoa@biochemlabtx.com	WO #:			
Project Name: City of Hillsboro Permit Renewal	Project #: 86006551			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	608.3_PCB, 608.3_Pest, 625.1	632 Carbaryl, & Diuron	SUBCONTRACT OrganoPhos Pesticides	624.1 (MOD)	1613B, 1668C	615_MOD (MOD) Local Method	OrganoTins_SIM Tributyltin Only	D7065_11 Nonylphenol	SUBCONTRACT Hexachlorophene	4500_CN_G_NonAm, SM4500CN_G_Calc	335.4 Total Cyanide	SUBCONTRACT Asbestos	200.7 (MOD) Custom List	Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	N	N	N	N	N	N	N	S	N	HBI	B	N	D	X	
6221-24 Hillsboro Permit Renewal	3.12.24	1000	Grab	Water																	Temp: 2.4 IR ID:HOU-368 C/F:+0.2 Corrected Temp: 2.6
				Water																	Temp: 2.1 IR ID:HOU-368 C/F:+0.2 Corrected Temp: 2.3

860-69911 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3 12 24 /1400	BCL		3.12.24 /1400	BCL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3.12 24 / 1615	BCL	Ron Rich	3 12.24 /1615	Dynamo
Relinquished by: Ron Rich	Date/Time: 3.12.24 /1435	Company BCL	Received by: YCRS	Date/Time: 3/13/24 1435	Company E

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

4/14/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Gibby Ficke	Lab PM: Richter Travis W	Carrier Tracking No(s):	COC No: 860-27593-9335.2
Client Contact: A. Shay Ochoa	Phone: 254 829 8001	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Bio Chem Lab, Inc	PWSID:			Job #:
Address: 4751 Tokio Rd	Due Date Requested:			
City: West	TAT Requested (days):			
State, Zip: TX, 76691	Compliance Project: Δ Yes Δ No			
Phone: 254-829-8001(Tel)	PO #: Purchase Order Requested			
Email: aochoa@biochemlabtx.com	WO #:			
Project Name: City of Hillsboro Permit Renewal	Project #: 86006551			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E_LLHg	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
6221-24 Hillsboro Permit Renewal	3 12 24	1000	Grab	Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3 12 24 / 1400	BCL		3.12 24 / 1400	BCL
2	Relinquished by:	Date/Time: 3 12 24 / 1615	Company BCL	Received by: Ron Rich	Date/Time: 3 12 24 / 1615	Company Dynamo
3	Relinquished by: Ron Rich	Date/Time: 3/13/24 1435	Company	Received by: YCRS	Date/Time: 3/13/24 1435	Company E

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

860-69911 Waybill

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4143 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 14MAR24
ACTWGT: 10.00 LB
CAD: 110159707/INET4709

BILL SENDER

TO EUROFINS CALSCIENCE
EUROFINS CALSCIENCE
2841 DOW AVENUE
SUITE 100
TUSTIN CA 92780
(714) 895-5494

FedEx

TRK# 7755 5205 1720

FRI - 15 MAR 10:30A
PRIORITY OVERNIGHT

A7 DTHA

92780
CA-US SNA

2/3

Pkg 1, 156148494 MTW EXP 01/24

https://www.fedex.com/shipping/shipAction.handle?method=doContinue

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 860-104550.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-69911-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 3/25/2024			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: City of Hillsboro Permit Renewal	Project #: 86006551			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D7065_11/D7065_11_W_Prep Nonylphenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
6221-24 Hillsbors Permit Renewal (860-69911-1)	3/12/24	10:00 Central		Water			X	2	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: linda	3/14/24			3/15/24 1022	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.7 #14 (-0.1)

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Richter Travis W	Carrier Tracking No(s):	COC No: 860-104548 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Travis Richter@et.eurofinsus com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): NELAP - Texas		Job #: 860-69911-1
Address: 880 Riverside Parkway	Due Date Requested: 3/26/2024			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605	PO #:			
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	WO #:			
Email:	Project #: 86006551			
Project Name: City of Hillsboro Permit Renewal	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y - Trizma, Z other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B/1613B_Sox_Sep_P Dioxins and Furans	1668C/HRMS_Sep_P Chlorinated Biphenyl Congeners	Total Number of containers	Special Instructions/Note.
			Preservation Code:							
6221-24 Hillsbors Permit Renewal (860-69911-1)	3/12/24	10 00 Central		Water			X	X	4	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Linda	3/14/24			3/15/24 0920	EET-Sac
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
		12.9°C

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 860-104557.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-69911-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 3/26/2024			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: City of Hillsboro Permit Renewal	Project #: 86006551			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E/1631E_Prep LLHg	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
6221-24 Hillsbors Permit Renewal (860-69911-1)	3/12/24	10:00 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/14/24 1800		BB	3/16/24 1025	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.7°C 3.2°C IR11

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone. 281-240-4200

Chain of Custody Record

eurofins | En

Loc: 860
69911

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No. 860-104551 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): NELAP - Texas		Job #: 860-69911-1
Address: 2841 Dow Avenue Suite 100, ,	Due Date Requested: 3/26/2024			
City: Tustin	TAT Requested (days):			
State Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: City of Hillsboro Permit Renewal	Project #: 86006551			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Organotins_SIM/OrgTin_W_P Tributyltin Only	Total Number of containers	Special Instructions/Note
			Preservation Code:						
6221-24 Hillsbors Permit Renewal (860-69911-1)	3/12/24	10:00 Central		Water			X	2	

860-69911 Chain of Custody

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) / Primary Deliverable Rank: 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3.13.24 10:18	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

eurofins | Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Job:___ 860-69911 Field Sheet ___

Tracking # 7755 6192 7641

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSL / OnTrac / Goldstreak / USPS / Other_____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC

Therm. ID: 604 Corr. Factor (+ / -) N/A °C

Ice_____ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: —

Cooler ID: —

Temp Observed. 12.9 °C Corrected. 12.9 °C

From Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☐	☑	☐
Frozen samples show signs of thaw?	☐	☐	☑

Initials: SO Date 3/15/24

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
COC is complete w/o discrepancies	☑	☐	☐
Sample custody seal?	☐	☐	☑
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☐	☑	☐
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: SO Date 3/15/24

Notes:

only water in cooler
-7 L milk
FedEx tag
FRI-15MAR Rec in 3/15/24

1 COCs wet in mail (860)
1L AC- H-K Containers

Trizma Lot #(s): _____

Ammonium Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
NCM Filed?	☑	☐	☐
Samples received within hold time?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials SO Date 3/15/24

Login Sample Receipt Checklist

Client: Bio Chem Lab, Inc

Job Number: 860-69911-1

Login Number: 69911

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Bio Chem Lab, Inc

Job Number: 860-69911-1

Login Number: 69911
List Number: 3
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 03/15/24 06:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

Login Sample Receipt Checklist

Client: Bio Chem Lab, Inc

Job Number: 860-69911-1

Login Number: 69911
List Number: 2
Creator: Naylis, Patrick J

List Source: Eurofins Denver
List Creation: 03/15/24 03:43 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bio Chem Lab, Inc

Job Number: 860-69911-1

Login Number: 69911
List Number: 4
Creator: Pardonner, Brett

List Source: Eurofins Pensacola
List Creation: 03/16/24 02:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7°C IR11 3.2°
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bio Chem Lab, Inc

Job Number: 860-69911-1

Login Number: 69911
List Number: 5
Creator: Oropeza, Salvador

List Source: Eurofins Sacramento
List Creation: 03/18/24 12:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	12.9C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

BIO CHEM LAB, INC. 4751 TOKIO ROAD WEST, TEXAS 76691
PHONE_ 254.829.8001 FAX_254.829.8013

City of Hillsboro
P O Box 568
Hillsboro, Texas 76645

Attention: Mr. Terry Dieterich
Date: 4.17.24
Re: Permit Renewal

PROJECT COVER LETTER – HILLSBORO

On 3.12.24, Bio Chem Lab, Inc. received in the field and subsequently received at their facility grab sample from the **City of Hillsboro** for permit renewal analysis. The samples were received into the logging system as having parent Sample ID(s) **6221-24.**

The subcontract analysis was networked to Eurofins in Stafford, Texas on 3.12.24. The report is included in its entirety and has Report ID(s): **860-69911-1.**

We believe this report to be complete for the analysis requested and ready for submission to the client. Prior to release, the data within this report has been reviewed for completion and accuracy. This report will not be reproduced except in its entirety, and only by written request of the above noted client.

For any additional questions / concerns regarding this analytical report please call 254.829.8001. Please note that Bio Chem Lab, Inc. and its network laboratories are accredited in accordance with NELAP.

Sincerely,

Andrew Janek, Technical Director
Bio Chem Lab, Inc.

THANK YOU FOR ALLOWING BIO CHEM LAB, INC. THE OPPORTUNITY TO BE YOUR ANALYTICAL SERVICE PROVIDER.

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Gibby Ficke	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 860-27593-9335.2
Client Contact: A. Shay Ochoa	Phone: 254.829.8001	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Bio Chem Lab, Inc	PWSID:			Job #:
Address: 4751 Tokio Rd	Due Date Requested:			
City: West	TAT Requested (days):			
State, Zip: TX, 76691	Compliance Project: Δ Yes Δ No			
Phone: 254-829-8001(Tel)	PO #: Purchase Order Requested			
Email: aochoa@biochemlabtx.com	WO #:			
Project Name: City of Hillsboro Permit Renewal	Project #: 86006551			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E - LLHg	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
6221-24 Hillsboro Permit Renewal	3.12.24	1000	Grab	Water					
				Water					

Possible Hazard identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3.12.24/1400	BCL		3.12.24/1400	BCL
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver. 01/16/2019

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Gibby Ficke	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 860-27593-9335.1
Client Contact: A. Shay Ochoa	Phone: 254.829.8001	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Bio Chem Lab, Inc	PWSID:			Job #:
Address: 4751 Tokio Rd	Due Date Requested:			
City: West	TAT Requested (days):			
State, Zip: TX, 76691	Compliance Project: Δ Yes Δ No			
Phone: 254-829-8001(Tel)	PO #: Purchase Order Requested			
Email: aochoa@biochemlabtx.com	WO #:			
Project Name: City of Hillsboro Permit Renewal	Project #: 86006551			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	608.3_PCB, 608.3_Pest, 625.1	632 - Carbaryl, & Diuron	SUBCONTRACT - OrganoPhos Pesticides	624.1 - (MOD)	1613B, 1668C	615_MOD - (MOD) Local Method	Organotins_SIM - Tributyltin Only	D7065_11 - Nonylphenol	SUBCONTRACT - Hexachlorophene	4500_CN_G_NonAm, SM4500CN_G_Calc	335.4 - Total Cyanide	SUBCONTRACT - Asbestos	200.7 - (MOD) Custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	S	N	HB	B	N	D		
6221-24 Hillsboro Permit Renewal	3.12.24	1000	Grab	Water																	
				Water																	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Y - Trizma
	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3.12.24/1400	BCL		3.12.24/1400	BCL
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

THANK YOU FOR ALLOWING BIO CHEM LAB, INC. THE OPPORTUNITY TO BE YOUR ANALYTICAL SERVICE PROVIDER.

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600514228		**RN 102844180**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 05/30/2024

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

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

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

City of Hillsboro

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
	17460010899	74-600189	041127077

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

12. Number of Employees
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

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

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

15. Mailing Address:

P.O. Box 568

City	Hillsboro	**State**	TX	**ZIP**	76645	**ZIP + 4**	0568

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	tdieterich@hillsborotx.org

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(254) 582-3478		(254) 582-0396

SECTION III: Regulated Entity Information

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

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

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

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

City of Hillsboro Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	600 Parham Street							
	City	Hillsboro	**State**	TX	**ZIP**	76645	**ZIP + 4**	
24. County	Hill							

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

25. Description to Physical Location:	Adjacent to George Street approximately 700 feet southwest of the intersection of Parham Street and George Street in Hill County Texas

26. Nearest City	**State**	**Nearest ZIP Code**
Hillsboro	TX	76645

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

27. Latitude (N) In Decimal:	31.999458		**28. Longitude (W) In Decimal:**	97.141708	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
31	59	58.05	97	8	30.15

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	0000	221320	221320

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

Municipal Government Wastewater Treatmen

34. Mailing Address:	**P.O. Box 568**							
	City	**Hillsboro**	**State**	**TX**	**ZIP**	**76645**	**ZIP + 4**	**568**
35. E-Mail Address:	**tdieterich@hillsborotx.org**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(254) 582-3478		**(254) 582-396**

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	RN102844180			

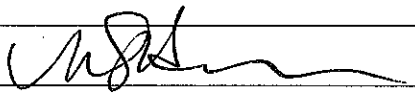
SECTION IV: Preparer Information

40. Name:	Megan Henderson	41. Title:	City Manager

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(254) 582-3271		(254) 582-0112	mhenderson@hillsborotx.org

SECTION V: Authorized Signature

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

Company:	City of Hillsboro	Job Title:	City Manager	
Name *(In Print)*:	Megan Henderson		Phone:	(254) 582- 3271
Signature:			Date:	7/11/24

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010630001

Applicant: City of Hillsboro

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): M. Scott Johnson

Signatory title: Mayor

Signature: M. Scott Johnson Date: 8-12-2024

(Use blue ink)

Subscribed and Sworn to before me by the said M. Scott Johnson

on this 12th day of August, 20 24.

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

Christi Ward

Notary Public

[SEAL]

CHRISTI WARD
Notary Public, State of Texas
My Commission Expires
July 20, 2026
NOTARY ID 12988342-9

Hill

County, Texas

Francesca Findlay

From: Hilton, Susan <Susan.Hilton@mrbgroup.com>
Sent: Friday, August 30, 2024 12:02 PM
To: Francesca Findlay
Cc: mhenderson@hillsborotx.org
Subject: RE: WQ0010630001 City of Hillsboro
Attachments: Municipal Discharge Renewal Spanish NORI - Hillsboro.docx; 10400 Core Data Form WIP.pdf; Signature Page - Mayor.pdf

Hello –

Attached are the following documents:

1. Signed and notarized Administrative Report 1.0, Section 14.
2. Core Data form with Item 24 completed and data form signed.
3. NORI – Spanish version in Word.

The NORI contained in your letter is correct except that we would suggest an additional comma in the average annual flow – 1,810,000.

Please let us know if you have additional questions.

SUSAN HILTON, P.E. / MRB Group / 254.313.9182

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Monday, August 26, 2024 4:02 PM
To: mhenderson@hillsborotx.org
Cc: Hilton, Susan <Susan.Hilton@mrbgroup.com>
Subject: FW: WQ0010630001 City of Hillsboro

Dear Ms. Henderson:

The attached Notice of Deficiency letter sent on August 26, 2024, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention September 10, 2024.

Thank you,

Fran Findlay

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division

512-239-2441
Texas Commission on Environmental Quality

TPDES PERMIT NO.
WQ0010630001
[For TCEQ office use only - EPA I.D. No. TX0023108]

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

This is a renewal that replaces TPDES Permit No. WQ0010630001 issued on September 10, 2019.

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

City of Hillsboro

whose mailing address is

P.O. Box 568
Hillsboro, Texas 76645

is authorized to treat and discharge wastes from the City of Hillsboro Wastewater Treatment Facility, SIC Code 4952

located at 600 Parham Street, in Hill County, Texas 76645

to an unnamed drainage ditch, thence to Little Hackberry Creek, thence to Hackberry Creek, thence to Aquilla Reservoir in Segment No. 1254 of the Brazos River Basin

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

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

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

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

   The annual average flow of effluent shall not exceed 1.81 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,676 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	5 (75)	10	20	30	Two/week	Composite
Total Suspended Solids	5 (75)	10	20	30	Two/week	Composite
Ammonia Nitrogen	1.3 (20)	3	10	15	Two/week	Composite
Total Copper	0.032 (0.48)	N/A	0.069	0.096	One/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

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

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

Effluent Characteristic	Discharge Limitations		Minimum Self-Monitoring Requirements	
	Daily Avg	Daily Max	Frequency	Sample Type
Lethal Whole Effluent Toxicity (WET) limit 100% (Parameter 51710)				
Ceriodaphnia dubia (7-day Chronic NOEC[1])	100%	100%	one/quarter	Composite

[1] The No Observable Effect Concentration (NOEC) is defined as the greatest effluent dilution at which no significant lethality is demonstrated. Significant lethality is defined as a statistically significant difference between a specified effluent dilution and the control.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

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

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

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

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

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

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

2. Concentration Measurements

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

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

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

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

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

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

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

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

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

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

3. Sample Type

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

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

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

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

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

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

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

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

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

2. Test Procedures

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

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

3. Records of Results

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

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

c. Records of monitoring activities shall include the following:

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

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

iii. date and time of analysis;

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

v. the technique or method of analysis; and

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

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

Division (MC 224).

7. Noncompliance Notification

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

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

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

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

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

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

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

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

9. Changes in Discharges of Toxic Substances

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

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

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

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

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

   iv. The level established by the TCEQ.

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

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

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

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

   iv. The level established by the TCEQ.

10. Signatories to Reports

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

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

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

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

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

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

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

PERMIT CONDITIONS

1. General

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

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

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

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

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

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

2. Compliance

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

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

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

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

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

   f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the

permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

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

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

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

3. Inspections and Entry

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

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

4. Permit Amendment and/or Renewal

a. The permittee shall give notice to the Executive Director as soon as possible of any

planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

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

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

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

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

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

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

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

f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not

yet been modified to incorporate the requirement.

5. Permit Transfer

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

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

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

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

       i. the permittee;

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

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

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

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

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

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

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

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

   a. The permittee shall notify the 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 09) 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. This annual report shall be submitted to the TCEQ Regional Office (MC Region 09) and the Enforcement Division (MC 224) by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

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

criteria.

Alternative 1

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

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

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

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

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

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

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

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

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

i. Prior to use or disposal, all the sewage sludge must have been generated from a

single location, except as provided in paragraph v. below;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. Vector Attraction Reduction Requirements

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

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

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

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

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

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

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

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

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

Alternative 9 -

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

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

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

Alternative 10-

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

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

C. Monitoring Requirements

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

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

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

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

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

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

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

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

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

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

A. Pollutant Limits

Table 2

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

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

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

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

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

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

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

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

D. Notification Requirements

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

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

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

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

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 report annually to the TCEQ Regional Office (MC Region 09) and the Enforcement Division (MC 224), by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

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

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

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

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

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

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

8. Date(s) of transport.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

C. 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 09) 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 09) 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 report annually to the TCEQ Regional Office (MC Region 09) and the Enforcement Division (MC 224) by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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 report the following information annually to the TCEQ Regional Office (MC Region 09) and the Enforcement Division (MC 224), by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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.

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. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

4. The permittee shall comply with the requirements of 30 TAC § 309.13 (a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e). On July 22, 2013, the permittee has submitted sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3). See Attachment A.

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

6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ 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/months. **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.

7. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 9 within 24 hours from the time the permittee becomes

aware of the violation, followed by a written report within five working days to TCEQ Region 9 and Enforcement Division (MC 224):

POLLUTANT	MAL [1] mg/l
Total Copper	0.01 [2]

[1] Minimum analytical level

[2] The 0.010 mg/L MALs for total copper has been continued from the permit issued on January 22, 2014 since it is sensitive enough to demonstrate compliance with the lowest effluent limitations at Outfall 001, which is daily average of 0.032 mg/l.

Test methods used must be sensitive enough to demonstrate compliance with the permit effluent limitations. If an effluent limit for a pollutant is less than the MAL, then the test method for that pollutant must be sensitive enough to demonstrate compliance at the MAL. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit, with consideration given to the MAL for the pollutants specified above.

When an analysis of an effluent sample for a pollutant listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form:

> "The reported value(s) of zero for [list pollutant(s)] on the self-reporting form for [monitoring period date range] is based on the following conditions: (1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and (2) the analytical results contained no detectable levels above the specified MAL."

When an analysis of an effluent sample for a pollutant indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that pollutant, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero may not be used.

8. **Within 60 days of the date of permit issuance**, the permittee shall submit to the TCEQ Domestic Wastewater Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Domestic Wastewater Section, the permittee shall submit plans, specifications, and a final engineering design report which comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Page 2 of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ. **This provision is continued from the permit issued on September 10, 2019, which has not been complied with to date.**

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

CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER

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

1. Scope, Frequency, and Methodology

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

   b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:

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

      2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

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

   c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 32%, 42%, 56%, 80%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

   d. Testing Frequency Reduction

      1) If none of the first four consecutive quarterly fathead minnow tests demonstrates significant toxicity, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per year.

      2) If one or more of the first four consecutive quarterly fathead minnow tests demonstrates significant toxicity, the permittee shall continue quarterly

testing for that test species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee will resume a quarterly testing frequency until this permit is reissued.

e. The lethal No Observed Effect Concentration (NOEC) effluent limitation of not less than 100% and the sublethal NOEC of not less than 80% (see the EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS section) are effective at the permit issue date for both test species.

f. If a test species fails to pass the sublethal endpoint at the 80% effluent concentration or the lethal effluent limitation at 100% effluent limitation, the testing frequency will increase to monthly for that test species until such time compliance with the NOEC effluent limitation is demonstrated for a period of three consecutive months, at which time the quarterly testing frequency may be resumed.

2. Required Toxicity Testing Conditions

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

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

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

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

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

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

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

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

b. Statistical Interpretation

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

referenced in in Part 1.b.

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

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

4) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

5) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control (0% effluent).

6) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.

7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.

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

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity

tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:

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

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

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

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

b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); and

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

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

d. Samples and Composites

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

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

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

4) If Outfall 001 ceases discharging during the collection of effluent samples,

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

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

3. Reporting

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

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

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

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

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

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

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

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

1) For the water flea, Parameter TLP3B, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

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

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

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

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

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

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

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

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

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

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

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

d. The permittee shall report the lethal and sublethal WET values for the 30-day average and the 7-day minimum under Parameter No. 51710 for the water flea and under Parameter No. 51714 for the fathead minnow for the appropriate reporting period. If more than one valid test was performed during the reporting period, the NOECs for that species will be averaged arithmetically and reported as the 30-day average. The 7-day minimum value submitted should reflect the lowest NOEC results for each test species during the reporting period.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM:_____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	32%	42%	56%	80%	100%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)
Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

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

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	32%	42%	56%	80%	100%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

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

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
32%							
42%							
56%							
80%							
100%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

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

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
32%									
42%									
56%									
80%									
100%									

* Coefficient of Variation = standard deviation x 100/mean

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

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

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

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for WET testing.

1. Scope, Frequency, and Methodology

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

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

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

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

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. Except as discussed in item 2.b., 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 (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation after multiple toxic events.

e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this Section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in item a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency defined in item b.

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 item 1.c., the control and dilution water shall normally consist of standard, synthetic, moderately hard, reconstituted water. If the permittee utilizes the results of a chronic test to satisfy the requirements in item 1.e., the permittee may use the receiving water or dilution water that meets the requirements of item 2.a as the control and dilution water.

c. Samples and Composites

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

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

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

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

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

3. Reporting

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

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

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

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

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

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

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

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

d. Enter the following codes for retests only:

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

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

4. Persistent Mortality

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

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

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

5. Toxicity Reduction Evaluation

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

b. Within 90 days of the retest that demonstrates significant lethality, the permittee

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

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

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

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

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

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

d. The permittee shall submit quarterly TRE activities reports concerning the

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

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

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

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

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

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

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

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

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

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

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

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

toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

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.

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. WQ0010630001, EPA I.D. No. TX0023108, 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 Hillsboro P.O. Box 568 Hillsboro, Texas 76645
Prepared By:	Sonia Bhuiya Domestic Permits Team Domestic Wastewater Section (MC 148) Water Quality Division (512) 239-1205
Date:	November 7, 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 domestic wastewater at an annual average flow not to exceed 1.81 million gallons per day (MGD). The existing wastewater treatment facility serves the City of Hillsboro.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 600 Parham Street, in Hill County, Texas 76645.

Outfall Location:

Outfall Number	Latitude	Longitude
001	31.999996 N	97.143847 W

The treated effluent is discharged to an unnamed drainage ditch, thence to Little Hackberry Creek, thence to Hackberry Creek, thence to Aquilla Reservoir in Segment No. 1254 of the Brazos River Basin. The unclassified receiving water uses are minimal aquatic life use for unnamed drainage ditch and limited aquatic life use for Little Hackberry Creek and Hackberry Creek. The designated uses for Segment No. 1254 are primary contact recreation, public water supply, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The City of Hillsboro Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode. Treatment units include mechanical fine screen, manual bar screen, grit chamber, three oxidation ditches, two final clarifiers, sludge holding tank, a belt filter press, two chlorine contact chambers 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, Itasca Landfill, Municipal Solid Waste Permit No. 241D, in Hill 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 City of Hillsboro 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 July 2019 through July 2024. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ($CBOD_5$), five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and Total Copper (CU). The average of Daily Average value for *Escherichia coli* (*E. coli)* in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	1.03
$CBOD_5$, mg/l	2.3
TSS, mg/l	2.6
NH_3-N, mg/l	1.6
Total Copper, mg/l	0.006
E. coli, CFU or MPN per 100 ml	1.0

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

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

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 1.81 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,676 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	5	75	10	20
TSS	5	75	10	20
NH_3-N	1.3	20	3	10
Total Copper	0.032	0.48	N/A	0.069
DO (minimum)	6.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399
Lethal Whole Effluent Toxicity (WET) limit 100% (Parameter 51710)				
Ceriodaphnia dubia (7-day Chronic NOEC[1])	100%	N/A	N/A	100%

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

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

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
Total Copper	One/week
DO	Two/week
E. coli	One/weeek
Lethal WET limits	One/quarter

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, Itasca Landfill, Municipal Solid Waste Permit No. 241D, in Hill 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 32%, 42%, 56%, 80%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% 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

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 Interim Phase of the existing has been deleted, because it is no longer applicable.

Other Requirements No. 9 and 10 of the existing permit has been removed since the 3 year compliance period is completed and no longer necessary.

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).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to an unnamed drainage ditch, thence to Little Hackberry Creek, thence to Hackberry Creek, thence to Aquilla Reservoir in Segment No. 1254 of the Brazos River Basin. The unclassified receiving water uses are minimal aquatic life use for unnamed drainage ditch and limited aquatic life use for Little Hackberry Creek and Hackberry Creek. The designated uses for Segment No. 1254 are primary contact recreation, public water supply, and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and

EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1254 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 470 mg/l total dissolved solids (TDS), 129 mg/l sulfate, and 71.9 mg/l chloride present in the effluent. The segment criteria for Segment No. 1254 are 600 mg/l for TDS, 310 mg/l for sulfate, and 110 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate. See Attachment A of this Fact Sheet.

TMDL Project No. 10 has been approved for this segment: *A Total Maximum Daily Load for Atrazine in Aquilla Reservoir for Segment No. 1254*.

The report *A Total Maximum Daily Load for Atrazine in Aquilla Reservoir* was adopted with revisions by the TCEQ on June 14, 2002 and approved by the EPA on October 30, 2002. No known point sources of atrazine occur within the watershed and point source discharges of atrazine are assumed not to occur. None of the responsibility for reducing or controlling atrazine loading is allocated to the waste load allocation for point sources in this TMDL. Therefore, no load reduction for this pollutant is required for this permit action.

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 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* (IP) (June 2010) is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

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

There is no mixing zone for this discharge directly to an intermittent stream with perennial pools; acute and chronic freshwater criteria apply at the end of pipe. The following critical effluent percentages are being used:

Acute Effluent %	100%	Chronic Effluent %	100%

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard

number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document *Procedures to Implement the Texas Surface Water Quality Standards*. The segment values are 12 mg/l for hardness (as calcium carbonate), 127 mg/l for chlorides, 7.9 standard units for pH, and 6 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

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

(b) PERMIT ACTION

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

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

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). The discharge point is to an intermittent stream with perennial pools or to an intermittent stream within 3 miles upstream of an intermittent stream with perennial pools. Human health screening using incidental freshwater fish tissue criteria (= 10 X freshwater fish tissue criteria) is applicable due to the perennial pools that support incidental freshwater fisheries. TCEQ uses the mass balance equation to estimate dilution in the intermittent stream with perennial pools during average flow conditions. The estimated dilution for human health protection is calculated using the permitted flow of 1.81 MGD and the harmonic mean flow of 0.13 cfs for an unnamed drainage ditch thence to Little Hackberry Creek. The following effluent percentage is being used:

Human Health Effluent % 95.564%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same

procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

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

(b) PERMIT ACTION

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

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1254, which receives the discharge from this facility, is designated as a public water supply. The discharge point is located at a distance greater than three miles from the classified segment. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable due to the distance between the discharge point and the classified segment.

(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 has performed thirty-

three chronic tests, with six failures by the water flea (including two WET limit violations) and five failures by the fathead minnow.

A reasonable potential (RP) determination was performed in accordance with 40 CFR § 122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic 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.

Due to the failures, a determination of RP was made for both test species. The water flea will get a sublethal WET limit in addition to the existing lethal one, and the fathead minnow will get lethal and sublethal WET limits. Neither test species is eligible for the testing frequency reduction. Since the permittee stated that the failures were due to high ammonia levels resulting from an equipment failure which has since been repaired, no compliance period is recommended.

(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 thirty-three chronic tests, with six failures by the water flea (including two WET limit violations) and five failures by the fathead minnow.

(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. WQ0010630001 issued on September 10, 2019.

B. APPLICATION

Application received on August 23, 2024, and additional information received on September 13, 2025.

C. MEMORANDA

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

D. MISCELLANEOUS

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

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

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

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

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

A Total Maximum Daily Load for Atrazine in Aquilla Reservoir for Segment No. 1254 (TMDL Project No. 10).

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

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 7 - Discharge to an Intermittent Stream with Perennial Pools

Screen the Perennial Pool Characteristics of the Stream

Applicant Name:	**City of Hillsboro**
Permit Number, Outfall:	**10630-001**
Segment Number:	**1254**

Enter values needed for screening:			**Data Source (edit if different)**
QE - Average effluent flow	**1.81**	MGD	Permit application
QS - Stream harmonic mean flow	**0.10**	cfs	Critical conditions memo
QE - Average effluent flow	**2.8005**	cfs	Calculated
CA - TDS - ambient segment concentration	**228**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	**12**	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	**54**	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	**600**	mg/L	2010 TSWQS, Appendix A
CC - chloride - segment criterion	**110**	mg/L	2010 TSWQS, Appendix A
CC - sulfate - segment criterion	**310**	mg/L	2010 TSWQS, Appendix A
CE - TDS - average effluent concentration	**470**	mg/L	Permit application
CE - chloride - average effluent concentration	**71.9**	mg/L	Permit application
CE - sulfate - average effluent concentration	**129**	mg/L	Permit application

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	**613.28**
Calculate the LTA	LTA = WLA * 0.93	**570.35**
Calculate the daily average	Daily Avg. = LTA * 1.47	**838.42**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**1773.80**
Calculate 70% of the daily average	70% of Daily Avg. =	**586.89**
Calculate 85% of the daily average	85% of Daily Avg. =	**712.66**

No permit limitations needed if:	**470**	**≤**	**586.89**		
Reporting needed if:	**470**	**>**	**586.89**	**but ≤**	**712.66**
Permit limits may be needed if:	**470**	**>**	**712.66**		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE			**113.50**	
Calculate the LTA	LTA = WLA * 0.93			**105.55**	
Calculate the daily average	Daily Avg. = LTA * 1.47			**155.17**	
Calculate the daily maximum	Daily Max. = LTA * 3.11			**328.27**	
Calculate 70% of the daily average	70% of Daily Avg. =			**108.62**	
Calculate 85% of the daily average	85% of Daily Avg. =			**131.89**	
No permit limitations needed if:		**71.9**	**≤**	**108.62**	
Reporting needed if:		**71.9**	**>**	**108.62**	**but ≤** **131.89**
Permit limits may be needed if:		**71.9**	**>**	**131.89**	

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE			**319.14**	
Calculate the LTA	LTA = WLA * 0.93			**296.80**	
Calculate the daily average	Daily Avg. = LTA * 1.47			**436.30**	
Calculate the daily maximum	Daily Max. = LTA * 3.11			**923.05**	
Calculate 70% of the daily average	70% of Daily Avg. =			**305.41**	
Calculate 85% of the daily average	85% of Daily Avg. =			**370.85**	
No permit limitations needed if:		**129**	**≤**	**305.41**	
Reporting needed if:		**129**	**>**	**305.41**	**but ≤** **370.85**
Permit limits may be needed if:		**129**	**>**	**370.85**	

No permit limitations needed for sulfate

Attachment B: Calculated Water Quality Based Effluent Limitations

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, Incidental Fishery
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Hillsboro
TPDES Permit No.:	WQ0010630001
Outfall No.:	001
Prepared by:	Sonia Bhuiya
Date:	August 4, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	unnamed drainage ditch thence to Little Hackberry Creek.
Segment No.:	1254
TSS (mg/L):	6
pH (Standard Units):	7.9
Hardness (mg/L as $CaCO_3$):	127
Chloride (mg/L):	12
Effluent Flow for Aquatic Life (MGD):	1.81
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Chronic Aquatic Life:	100
% Effluent for Acute Aquatic Life:	100
Effluent Flow for Human Health (MGD):	1.81
Harmonic Mean Flow (cfs):	0.13
% Effluent for Human Health:	95.564

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

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	129404.56	0.563		1.00	Assumed
Cadmium	6.60	-1.13	525640.82	0.241		1.00	Assumed
Chromium (total)	6.52	-0.93	625632.55	0.210		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	625632.55	0.210		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	278078.92	0.375		1.00	Assumed
Lead	6.45	-0.80	672169.81	0.199		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	176381.81	0.486		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	378882.21	0.306		1.00	Assumed

Zinc	6.10	-0.70	359165.10	0.317		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	604	266	346	205	301	638
Cadmium	10.8	0.290	45.0	1.21	25.8	0.929	1.36	2.88
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.00400	1.38	0.00308	0.00452	0.00957
Chlorpyrifos	0.083	0.041	0.0830	0.0410	0.0476	0.0316	0.0464	0.0981
Chromium (+3)	693	90	3294	429	1888	330	485	1026
Chromium (+6)	15.7	10.6	15.7	10.6	9.00	8.16	11.9	25.3
Copper	17.8	11.6	47.5	31.0	27.2	23.9	35.0	74.2
Cyanide (free)	45.8	10.7	45.8	10.7	26.2	8.24	12.1	25.6
4,4'-DDT	1.1	0.001	1.10	0.00100	0.630	0.000770	0.00113	0.00239
Demeton	N/A	0.1	N/A	0.100	N/A	0.0770	0.113	0.239
Diazinon	0.17	0.17	0.170	0.170	0.0974	0.131	0.143	0.302
Dicofol	59.3	19.8	59.3	19.8	34.0	15.2	22.4	47.4
Dieldrin	0.24	0.002	0.240	0.00200	0.138	0.00154	0.00226	0.00478
Diuron	210	70	210	70.0	120	53.9	79.2	167
Endosulfan I (alpha)	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endosulfan II (beta)	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endosulfan sulfate	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endrin	0.086	0.002	0.0860	0.00200	0.0493	0.00154	0.00226	0.00478
Guthion	N/A	0.01	N/A	0.0100	N/A	0.00770	0.0113	0.0239
Heptachlor	0.52	0.004	0.520	0.00400	0.298	0.00308	0.00452	0.00957
Hexachlorocyclohexane (Lindane)	1.126	0.08	1.13	0.0800	0.645	0.0616	0.0905	0.191
Lead	84	3.26	421	16.4	241	12.6	18.5	39.3
Malathion	N/A	0.01	N/A	0.0100	N/A	0.00770	0.0113	0.0239
Mercury	2.4	1.3	2.40	1.30	1.38	1.00	1.47	3.11
Methoxychlor	N/A	0.03	N/A	0.0300	N/A	0.0231	0.0339	0.0718
Mirex	N/A	0.001	N/A	0.00100	N/A	0.000770	0.00113	0.00239
Nickel	573	63.7	1180	131	676	101	148	313
Nonylphenol	28	6.6	28.0	6.60	16.0	5.08	7.47	15.8
Parathion (ethyl)	0.065	0.013	0.0650	0.0130	0.0372	0.0100	0.0147	0.0311
Pentachlorophenol	21.6	16.5	21.6	16.5	12.3	12.7	18.1	38.4
Phenanthrene	30	30	30.0	30.0	17.2	23.1	25.2	53.4
Polychlorinated Biphenyls (PCBs)	2.0	0.014	2.00	0.0140	1.15	0.0108	0.0158	0.0335
Selenium	20	5	20.0	5.00	11.5	3.85	5.65	11.9
Silver	0.8	N/A	4.34	N/A	2.49	N/A	3.65	7.73
Toxaphene	0.78	0.0002	0.780	0.000200	0.447	0.000154	0.000226	0.000478
Tributyltin (TBT)	0.13	0.024	0.130	0.0240	0.0745	0.0185	0.0271	0.0574
2,4,5 Trichlorophenol	136	64	136	64.0	77.9	49.3	72.4	153
Zinc	143	145	453	456	259	351	381	806

HUMAN HEALTH (APPLIES FOR INCIDENTAL FRESHWATER FISH TISSUE)

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1150	1203	1119	1645	3480
Aldrin	1.147E-04	0.000120	0.000112	0.000164	0.000347
Anthracene	13170	13781	12817	18840	39859
Antimony	10710	11207	10423	15321	32414
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	5810	6080	5654	8311	17584
Benzidine	1.07	1.12	1.04	1.53	3.23
Benzo(*a*)anthracene	0.25	0.262	0.243	0.357	0.756
Benzo(*a*)pyrene	0.025	0.0262	0.0243	0.0357	0.0756
Bis(chloromethyl)ether	2.745	2.87	2.67	3.92	8.30
Bis(2-chloroethyl)ether	428.3	448	417	612	1296
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	75.5	79.0	73.5	108	228
Bromodichloromethane [Dichlorobromomethane]	2750	2878	2676	3934	8323
Bromoform [Tribromomethane]	10600	11092	10316	15163	32081
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	460	481	448	658	1392
Chlordane	0.025	0.0262	0.0243	0.0357	0.0756
Chlorobenzene	27370	28641	26636	39154	82837
Chlorodibromomethane [Dibromochloromethane]	1830	1915	1781	2617	5538
Chloroform [Trichloromethane]	76970	80543	74905	110110	232954
Chromium (hexavalent)	5020	5253	4885	7181	15193
Chrysene	25.2	26.4	24.5	36.0	76.2
Cresols [Methylphenols]	93010	97328	90515	133056	281500
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.02	0.0209	0.0195	0.0286	0.0605
4,4'-DDE	0.0013	0.00136	0.00127	0.00185	0.00393
4,4'-DDT	0.004	0.00419	0.00389	0.00572	0.0121
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	4730	4950	4603	6766	14315
1,2-Dibromoethane [Ethylene Dibromide]	42.4	44.4	41.3	60.6	128
m-Dichlorobenzene [1,3-Dichlorobenzene]	5950	6226	5790	8511	18008
o-Dichlorobenzene [1,2-Dichlorobenzene]	32990	34521	32105	47194	99846
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	22.4	23.4	21.8	32.0	67.7
1,2-Dichloroethane	3640	3809	3542	5207	11016
1,1-Dichloroethylene [1,1-Dichloroethene]	551140	576724	536354	788439	1668059
Dichloromethane [Methylene Chloride]	133330	139519	129753	190736	403531
1,2-Dichloropropane	2590	2710	2521	3705	7838
1,3-Dichloropropene [1,3-Dichloropropylene]	1190	1245	1158	1702	3601
Dicofol [Kelthane]	3	3.14	2.92	4.29	9.07
Dieldrin	2.0E-04	0.000209	0.000195	0.000286	0.000605
2,4-Dimethylphenol	84360	88276	82097	120682	255320
Di-*n*-Butyl Phthalate	924	967	899	1321	2796
Dioxins/Furans [TCDD Equivalents]	7.97E-07	8.34E-07	7.76E-07	0.0000011	0.0000024
Endrin	0.2	0.209	0.195	0.286	0.605
Epichlorohydrin	20130	21064	19590	28797	60924
Ethylbenzene	18670	19537	18169	26708	56505

Ethylene Glycol	1.68E+08	175798690	163492782	240334389	508462550
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.001	0.00105	0.000973	0.00143	0.00302
Heptachlor Epoxide	0.0029	0.00303	0.00282	0.00414	0.00877
Hexachlorobenzene	0.0068	0.00712	0.00662	0.00972	0.0205
Hexachlorobutadiene	2.2	2.30	2.14	3.14	6.65
Hexachlorocyclohexane (*alpha*)	0.084	0.0879	0.0817	0.120	0.254
Hexachlorocyclohexane (*beta*)	2.6	2.72	2.53	3.71	7.86
Hexachlorocyclohexane (*gamma*) [Lindane]	3.41	3.57	3.32	4.87	10.3
Hexachlorocyclopentadiene	116	121	113	165	351
Hexachloroethane	23.3	24.4	22.7	33.3	70.5
Hexachlorophene	29	30.3	28.2	41.4	87.7
4,4'-Isopropylidenediphenol [Bisphenol A]	159820	167239	155532	228632	483705
Lead	38.3	202	188	275	583
Mercury	0.122	0.128	0.119	0.174	0.369
Methoxychlor	30	31.4	29.2	42.9	90.7
Methyl Ethyl Ketone	9.92E+06	10380494	9653859	14191173	30023503
Methyl *tert*-butyl ether [MTBE]	104820	109686	102008	149951	317244
Nickel	11400	24554	22835	33567	71016
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	18730	19599	18227	26794	56687
N-Nitrosodiethylamine	21	22.0	20.4	30.0	63.5
N-Nitroso-di-*n*-Butylamine	42	43.9	40.9	60.0	127
Pentachlorobenzene	3.55	3.71	3.45	5.07	10.7
Pentachlorophenol	2.9	3.03	2.82	4.14	8.77
Polychlorinated Biphenyls [PCBs]	6.40E-03	0.00670	0.00623	0.00915	0.0193
Pyridine	9470	9910	9216	13547	28661
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.4	2.51	2.34	3.43	7.26
1,1,2,2-Tetrachloroethane	263.5	276	256	376	797
Tetrachloroethylene [Tetrachloroethylene]	2800	2930	2725	4005	8474
Thallium	2.3	2.41	2.24	3.29	6.96
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.11	0.115	0.107	0.157	0.332
2,4,5-TP [Silvex]	3690	3861	3591	5278	11168
1,1,1-Trichloroethane	7843540	8207643	7633108	11220669	23738966
1,1,2-Trichloroethane	1660	1737	1615	2374	5024
Trichloroethylene [Trichloroethene]	719	752	700	1028	2176
2,4,5-Trichlorophenol	18670	19537	18169	26708	56505
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	165	173	161	236	499

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	1.76	2.14
Aluminum	584	709
Arsenic	211	256
Cadmium	0.955	1.16
Carbaryl	1.17	1.43
Chlordane	0.00316	0.00384
Chlorpyrifos	0.0324	0.0394

Chromium (+3)	339	412
Chromium (+6)	8.39	10.1
Copper	24.5	29.8
Cyanide (free)	8.47	10.2
4,4'-DDT	0.000792	0.000962
Demeton	0.0792	0.0962
Diazinon	0.100	0.121
Dicofol	15.6	19.0
Dieldrin	0.00158	0.00192
Diuron	55.4	67.3
Endosulfan (alpha)	0.0443	0.0538
Endosulfan (beta)	0.0443	0.0538
Endosulfan sulfate	0.0443	0.0538
Endrin	0.00158	0.00192
Guthion	0.00792	0.00962
Heptachlor	0.00316	0.00384
Hexachlorocyclohexane (Lindane)	0.0633	0.0769
Lead	13.0	15.7
Malathion	0.00792	0.00962
Mercury	1.03	1.25
Methoxychlor	0.0237	0.0288
Mirex	0.000792	0.000962
Nickel	103	126
Nonylphenol	5.22	6.34
Parathion (ethyl)	0.0103	0.0125
Pentachlorophenol	12.7	15.4
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls (PCBs)	0.0110	0.0134
Selenium	3.96	4.81
Silver	2.55	3.10
Toxaphene	0.000158	0.000192
Tributyltin (TBT)	0.0190	0.0230
2,4,5 Trichlorophenol	50.7	61.5
Zinc	266	324

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	1151	1398
Aldrin	0.000114	0.000139
Anthracene	13188	16014
Antimony	10724	13023
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	5818	7064
Benzidine	1.07	1.30
Benzo(*a*)anthracene	0.250	0.303
Benzo(*a*)pyrene	0.0250	0.0303
Bis(chloromethyl)ether	2.74	3.33
Bis(2-chloroethyl)ether	428	520
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	75.6	91.8
Bromodichloromethane [Dichlorobromomethane]	2753	3343
Bromoform [Tribromomethane]	10614	12889

Cadmium	N/A	N/A
Carbon Tetrachloride	460	559
Chlordane	0.0250	0.0303
Chlorobenzene	27408	33281
Chlorodibromomethane [Dibromochloromethane]	1832	2225
Chloroform [Trichloromethane]	77077	93593
Chromium (hexavalent)	5026	6104
Chrysene	25.2	30.6
Cresols [Methylphenols]	93139	113098
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0200	0.0243
4,4'-DDE	0.00130	0.00158
4,4'-DDT	0.00400	0.00486
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	4736	5751
1,2-Dibromoethane [Ethylene Dibromide]	42.4	51.5
m-Dichlorobenzene [1,3-Dichlorobenzene]	5958	7235
o-Dichlorobenzene [1,2-Dichlorobenzene]	33035	40115
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	22.4	27.2
1,2-Dichloroethane	3645	4426
1,1-Dichloroethylene [1,1-Dichloroethene]	551907	670173
Dichloromethane [Methylene Chloride]	133515	162126
1,2-Dichloropropane	2593	3149
1,3-Dichloropropene [1,3-Dichloropropylene]	1191	1447
Dicofol [Kelthane]	3.00	3.64
Dieldrin	0.000200	0.000243
2,4-Dimethylphenol	84477	102579
Di-*n*-Butyl Phthalate	925	1123
Dioxins/Furans [TCDD Equivalents]	7.98E-07	9.69E-07
Endrin	0.200	0.243
Epichlorohydrin	20158	24477
Ethylbenzene	18696	22702
Ethylene Glycol	168234072	204284230
Fluoride	N/A	N/A
Heptachlor	0.00100	0.00121
Heptachlor Epoxide	0.00290	0.00352
Hexachlorobenzene	0.00680	0.00826
Hexachlorobutadiene	2.20	2.67
Hexachlorocyclohexane (*alpha*)	0.0841	0.102
Hexachlorocyclohexane (*beta*)	2.60	3.16
Hexachlorocyclohexane (*gamma*) [Lindane]	3.41	4.14
Hexachlorocyclopentadiene	116	141
Hexachloroethane	23.3	28.3
Hexachlorophene	29.0	35.2
4,4'-Isopropylidenediphenol [Bisphenol A]	160042	194337
Lead	193	234
Mercury	0.122	0.148
Methoxychlor	30.0	36.4
Methyl Ethyl Ketone	9933821	12062497
Methyl *tert*-butyl ether [MTBE]	104966	127458
Nickel	23497	28532
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A

Nitrobenzene	18756	22775
N-Nitrosodiethylamine	21.0	25.5
N-Nitroso-di-*n*-Butylamine	42.0	51.0
Pentachlorobenzene	3.55	4.31
Pentachlorophenol	2.90	3.52
Polychlorinated Biphenyls [PCBs]	0.00640	0.00778
Pyridine	9483	11515
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.40	2.91
1,1,2,2-Tetrachloroethane	263	320
Tetrachloroethylene [Tetrachloroethylene]	2803	3404
Thallium	2.30	2.79
Toluene	N/A	N/A
Toxaphene	0.110	0.133
2,4,5-TP [Silvex]	3695	4486
1,1,1-Trichloroethane	7854468	9537568
1,1,2-Trichloroethane	1662	2018
Trichloroethylene [Trichloroethene]	720	874
2,4,5-Trichlorophenol	18696	22702
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	165	200