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

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

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS 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 Freeport (CN600641799) operates the City of Freeport Wastewater Treatment Plant (RN102184025), a domestic wastewater treatment facility. The facility is located at 931 E. Floodgate Rd., in Freeport, Brazoria County, Texas 77541. The City of Freeport is requesting a renewal of the wastewater permit to discharge 2.25 MGD treated domestic wastewater to the Brazos River. When needed, there is also an option to discharge to the 38.2 acre impounded wetlands adjacent to the plant site with no discharge from the wetlands.

Discharges from the facility are expected to contain total suspended solids and BOD. Domestic wastewater is treated by chlorine gas.

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 Freeport (CN600641799) opera la Planta de Tratamiento de Aguas Residuales de la Ciudad de Freeport (RN102184025), una instalación de tratamiento de aguas residuales domésticas. La instalación está ubicada en 931 E. Floodgate Rd., en Freeport, Condado de Brazoria, Texas 77541. La ciudad de Freeport solicita la renovación del permiso de aguas residuales para descargar 2.25 MGD de aguas residuales domésticas tratadas al río Brazos. De ser necesario, también existe la opción de descargarlas en los humedales embalsados de 38.2 acres adyacentes a la planta, sin que se produzcan descargas desde estos.

Se espera que las descargas de la instalación contengan sólidos suspendidos totales y DBO. Las aguas residuales domésticas se tratan con cloro gaseoso.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010882001

APPLICATION. City of Freeport, 1201 North Avenue H, Freeport, Texas 77541, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010882001 (EPA I.D. No. TX0033332) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 2,250,000 gallons per day. The domestic wastewater treatment facility is located at 931 East Floodgate Road, near the city of Freeport, in Brazoria County, Texas 77541. The discharge route is from the plant site via Outfall 001 directly to Brazos River Tidal and via Outfall 002 to a 38.2-acre impounded wetlands adjacent to the plant site with no discharge from the wetlands. TCEQ received this application on April 1, 2025. The permit application will be available for viewing and copying at Freeport City Hall, Front Entrance, 1201 North Avenue H, Freeport, in Brazoria 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=-95.377222,28.944444&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 Freeport at the address stated above or by calling Mr. Lance Petty, City Manager, at 979-233-3526.

Issuance Date: June 16, 2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010882001

SOLICITUD. City of Freeport, 1201 North Avenue H, Freeport, Texas 77541, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010882001 (EPA I.D. No. TX 0033332) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio anual de 2,250,000 galones por día. La planta está ubicada en 931 East Floodgate Road, cerca de la ciudad de Freeport, en el Condado de Brazoria, Texas 77541. La ruta de descarga es desde el sitio de la planta a través del emisario 001 directamente al río Brazos Tidal y a través del emisario 002 a un humedal embalsado de 38,2 acres adyacente al sitio de la planta sin descarga desde los humedales. La TCEQ recibió esta solicitud el 1 de abril de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Freeport City Hall, Front Entrance, 1201 North Avenue H, Freeport, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.
Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.377222,28.944444&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos

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

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

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

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

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

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

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

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

También se puede obtener información adicional del City of Freeport a la dirección indicada arriba o llamando a Mr. Lance Petty, City Manager, al 979-233-3526.

Fecha de emisión: el 16 de junio de 2025

Texas Commission on Environmental Quality

COMBINED

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT (NORI)

AND

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

RENEWAL

PERMIT NO. WQ0010882001

APPLICATION AND PRELIMINARY DECISION. City of Freeport, 1201 North Avenue H, Freeport, Texas 77541, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010882001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2,250,000 gallons per day. TCEQ received this application on April 1, 2025.

This combined notice is being issued to update the contact information for the applicant to obtain further information about the application that was stated in the NORI, issued on June 16, 2025.

The facility is located at 931 East Floodgate Road, in the City of Freeport, Brazoria County, Texas 77541. The treated effluent is discharged via Outfall 001 directly to Brazos River Tidal in Segment No. 1201 of the Brazos River Basin, and via Outfall 002 to a 38.2-acre impounded wetlands adjacent to the plant site with no discharge from the wetlands. The designated uses for Segment No. 1201 are primary contact recreation, public water supply (PWS), and high aquatic life use. The PWS designation does not apply to this facility as the discharge is downstream of the PWS boundary. 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=-95.377222,28.944444&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 Freeport City Hall, Front Entrance, 1201 North Avenue H, Freeport, in Brazoria 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 Freeport at the address stated above or by calling **Mr. Dan Pennington, Interim City Manager, at 979-233-3526**.

Issuance Date: December 2, 2025

Comisión De Calidad Ambiental Del Estado De Texas

COMBINADO

AVISO DE RECEPCIÓN DE SOLICITUD E INTENCIÓN DE OBTENER UN PERMISO DE CALIDAD DEL AGUA (NORI)

Y

AVISO DE SOLICITUD Y DECISIÓN PRELIMINAR PARA EL PERMISO DEL TPDES PARA AGUAS RESIDUALES MUNICIPALES

RENOVACIÓN

PERMISO NO. WQ 0010882001

SOLICITUD Y DECISIÓN PRELIMINAR. La Ciudad de Freeport, ubicada en 1201 North Avenue H, Freeport, Texas 77541, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) la renovación del Permiso n.° WQ0010882001 del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES), que autoriza la descarga de aguas residuales domésticas tratadas con un caudal promedio anual que no exceda los 2,250,000 galones por día. La TCEQ recibió esta solicitud el 1 de abril de 2025.

Este aviso combinado se emite para actualizar la información de contacto del solicitante para obtener más información sobre la solicitud, tal como se indicó en el NORI, emitido el 16 de junio de 2025.

La planta está ubicada en 931 East Floodgate Road, en la ciudad de Freeport, condado de Brazoria, Texas 77541. El efluente tratado se descarga a través del emisario 001 directamente al sistema de mareas del río Brazos, en el segmento n.° 1201 de la cuenca del río Brazos, y a través del emisario 002 a un humedal embalsado de 38.2 acres adyacente a la planta, sin descargas desde este. Los usos designados para el segmento n.° 1201 son recreación de contacto primario, suministro público de agua (PWS) y uso intensivo de vida acuática. La designación PWS no aplica a esta planta, ya que la descarga se realiza aguas abajo del límite del PWS. Este enlace a un mapa electrónico de la ubicación general del sitio o la instalación se proporciona como cortesía pública 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=-95.377222,28.944444&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. De aprobarse, este borrador establecería las condiciones de funcionamiento 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 determinación preliminar del Director
Ejecutivo y el borrador del permiso están disponibles para su revisión y copia en el Ayuntamiento de Freeport, entrada principal, 1201 North Avenue H, Freeport, Condado de Brazoria, Texas. La solicitud está disponible para su consulta y reproducción a través del siguiente enlace: https://www.tceq.texas.gov/permitting/wastewater/pendingpermits/tpdes-applications.

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

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

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

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

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

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

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

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

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

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www.tceq.texas.gov/goto/comment, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC105, 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 Freeport a la dirección indicada arriba o llamando a Mr. Dan Pennington, Interim City Manager al 979-233-3526.

Fecha de emisión 2 de diciembre de 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Freeport

PERMIT NUMBER (If new, leave blank): WQ0010010882001

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY — Voucher Number: 759114

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 0010882001

EPA I.D. (TPDES only): TX 0033332

Expiration Date: 05/08/2025

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

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

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

City of Freeport

(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: 600641799

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: Cain, Jerry

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. Click to enter text.

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Meeks, Jerry Jr.

Title: Lead Operator Credential: Click to enter text.

Organization Name: Veolia

Mailing Address: PO Box 3201 City, State, Zip Code: Freeport, TX. 77542

Phone No.: 979-233-4281 E-mail Address: Jerry.Meeks2@veolia.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. 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.

Check one or both: ☐ Administrative Contact ☐ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Petty, Lance

Title: City Manager Credential: Click to enter text.

Organization Name: City of Freeport

Mailing Address: 1201 N. Ave. H City, State, Zip Code: Freeport, TX. 77541

Phone No.: 979-233-3526 E-mail Address: LPetty@Freeport.tx.us

B. Prefix: Mr. Last Name, First Name: Meeks, Jerry Jr.

Title: Lead Operator Credential: Click to enter text.

Organization Name: Veolia

Mailing Address: PO Box 3201 City, State, Zip Code: Freeport, TX. 77542

Phone No.: 979-233-4281 E-mail Address: Jerry.Meeks2@veolia.com

Section 6. Billing Contact Information (Instructions Page 27)

The permittee is responsible for paying the annual fee. The annual fee will be assessed to permits ***in effect on September 1 of each year***. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (using form TCEQ-20029).

Prefix: Mr. Last Name, First Name: Petty, Lance

Title: City Manager Credential: Click to enter text.

Organization Name: City of Freeport

Mailing Address: 1201 N. Ave. H City, State, Zip Code: Freeport, TX. 77541

Phone No.: 979-233-3526 E-mail Address: LPetty@Freeport.tx.us

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: Petty, Lance

Title: City Manager Credential: Click to enter text.

Organization Name: City of Freeport

Mailing Address: 1201 N. Ave. H City, State, Zip Code: Freeport, TX. 77541

Phone No.: 979-233-3526 E-mail Address: LPetty@Freeport.tx.us

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Petty, Lance

Title: City Manager Credential: Click to enter text.

Organization Name: City of Freeport

Mailing Address: 1201 N. Ave. H City, State, Zip Code: Freeport, TX. 77541

Phone No.: 979-233-3526 E-mail Address: LPetty@Freeport.tx.us

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Petty, Lance

Title: City Manager Credential: Click to enter text.

Organization Name: City of Freeport

Mailing Address: 1201 N. Ave. F City, State, Zip Code: Freeport, TX. 77541

Phone No.: 979-233-3526 E-mail Address: LPetty@Freeport.tx.us

D. Public Viewing Information

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

Public building name: City Hall

Location within the building: Front Enterance

Physical Address of Building: 1201 N. Ave. H

City: Freeport County: Brazoria

Contact (Last Name, First Name): Petty, Lance

Phone No.: 979-233-3526 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? Spainish

F. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS, and include as an attachment.

Attachment: Attachment 1

G. Public Involvement Plan Form

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

Attachment: Click to enter text.

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 29)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102184025

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):

Freeport Central Wastewater Treatment Facility

C. Owner of treatment facility: City of Freeport

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 Freeport

Mailing Address: 1201 N. Ave. H City, State, Zip Code: Freeport, TX. 77541

Phone No.: 979-233-3526 E-mail Address: LPetty@Freeport.tx.us

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

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

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

Organization Name: City of Freeport

Mailing Address: 1201 N. Ave. H City, State, Zip Code: Freeport,TX. 77541

Phone No.: 979-233-3526 E-mail Address: LPetty@Freeport.tx.us

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

Attachment: Click to enter text.

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

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): City of Freeport

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

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

☐ Yes ☒ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☒ Yes ☐ No

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

Click to enter text.

B. City nearest the disposal site: Freeport

C. County in which the disposal site is located: Brazoria

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

Outfall 002 is discharged from the plant effluent following final treatment through an isolation valve, through a flow meter via a 12" pipe to the impounded wetlands where it is discharged through an Alfalfa Valve on a splash pad.

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Brazos River Tidal in Segment No. 1201 of the Brazos River Basin.

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: Plain Language Summary for Section 8-F

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010882001

Applicant: City of Freeport

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): Jerry Cain

Signatory title: Mayor

Signature: Jerry Cain Date: 3/27/25

(Use blue ink)

Subscribed and Sworn to before me by the said Jerry Cain

on this 27th day of March, 20 25.

My commission expires on the 29th day of June, 20 27.

Clarisa Molina

Notary Public

[SEAL]

Brazoria

County, Texas

NOTARY PUBLIC STATE OF TEXAS
CLARISA LIZETH MOLINA
Notary ID #134432069
My Commission Expires
June 29, 2027

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

- ☐ The applicant's property boundaries
- ☐ The facility site boundaries within the applicant's property boundaries
- ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☐ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☐ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☐ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. ☐ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).

D. Provide the source of the landowners' names and mailing addresses: Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

- ☐ At least one original photograph of the new or expanded treatment unit location
- ☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- ☐ At least one photograph of the existing/proposed effluent disposal site
- ☐ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

- ☐ Ownership
- ☐ Restrictive easement
- ☐ Nuisance odor control
- ☐ Variance

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

☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Attachment 3

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., Miss): Click to enter text.

Full legal name (Last Name, First Name, Middle Initial): Click to enter text.

Driver's License or State Identification Number: Click to enter text.

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Summary of Application (in Plain Language) ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 2.25

2-Hr Peak Flow (MGD): 0.66

Estimated construction start date: Existing

Estimated waste disposal start date: Existing

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): 2.25

2-Hr Peak Flow (MGD): 0.66

Estimated construction start date: Existing

Estimated waste disposal start date: Existing

D. Current Operating Phase

Provide the startup date of the facility: Existing

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

See Attachment #6.

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)
Activated Sludge Aeration Tank	2	103'x23'x15'
Activated Sludge Clarifier	1	80'x5' (circular tank)
Chlorine Contact Chamber	2	23'x23'x10'
Trickling Filter	1	110'x5.1' (circular)
Primary Clarifier	1	50'x10' (circular)
Secondary Clarifier	1	55'x10' (circular)

C. Process Flow Diagram

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

Attachment: Attachment #4

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

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

- Latitude: 28 degrees 55 minutes 40 seconds N
- Longitude: 95 degrees 22 minutes 47 seconds W

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

- Latitude: 23 degrees 56 minutes 35 seconds N
- Longitude: 95 degrees 22 minutes 37 seconds W

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: Attachment #8
Provide the name **and** a description of the area served by the treatment facility.

The City of Freeport.

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 Freeport	City of Freeport	**Publicly Owned**	10,550
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☐ Yes ☒ No

If yes, provide the date(s) of approval for each phase: Click to enter text.

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. *Acceptance of grit and grease waste*

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

☐ Yes ☒ No

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

2. *Grit and grease processing*

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

Click to enter text.

3. *Grit disposal*

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. ***Grease and decanted liquid disposal***

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

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

Click to enter text.

E. Stormwater management

1. ***Applicability***

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

2. ***MSGP coverage***

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

☐ Yes ☒ No

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

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

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

☐ Yes ☒ No

3. ***Conditional exclusion***

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

☐ Yes ☒ No

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

Click to enter text.

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

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

☐ Yes ☒ No

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

Click to enter text.

5. ***Zero stormwater discharge***

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

☐ Yes ☒ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	3.59	3.59	1	C	06/27/24 08:10
Total Suspended Solids, mg/l	6.95	6.95	1	C	06/27/24 08:10
Ammonia Nitrogen, mg/l	12.4	12.4	1	C	06/27/24 08:10
Nitrate Nitrogen, mg/l	<0.1	<0.1	1	C	06/27/24 08:10
Total Kjeldahl Nitrogen, mg/l	23.7	23.7	1	C	06/27/24 08:10
Sulfate, mg/l	75.2	75.2	1	C	06/27/24 08:10
Chloride, mg/l	246	246	1	C	06/27/24 08:10
Total Phosphorus, mg/l	5.10	5.10	1	C	06/27/24 08:10
pH, standard units	7.34	7.34	1	G	06/27/24 08:10
Dissolved Oxygen*, mg/l	6.08	6.08	1	G	06/27/24 08:10
Chlorine Residual, mg/l	2.14	2.14	1	G	06/27/24 08:10
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater	29	40	52	G	2024
Total Dissolved Solids, mg/l	604	604	1	C	06/27/24 08:10
Electrical Conductivity, µmohs/cm, †	1340	1340	1	C	06/27/24 08:10
Oil & Grease, mg/l	<5.00	<5.00	1	C	06/27/24 08:10
Alkalinity ($CaCO_3$)*, mg/l	157	157	1	C	06/27/24 08:10

*TPDES permits only
†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	6.95	6.95	1	C	06/27/24 08:10

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Dissolved Solids, mg/l	604	604	1	C	06/27/24 08:10
pH, standard units	7.34	7.34	1	G	06/27/24 08:10
Fluoride, mg/l	<0.250	<0.250	1	C	06/27/24 08:10
Aluminum, mg/l	0.026	0.026	1	C	06/27/24 08:10
Alkalinity ($CaCO_3$), mg/l	157	157	1	C	06/27/24 08:10

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Jerry Meeks, Jr

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

Facility Operator's License Number: WW0060350

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☒ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: Click to enter text.

C. Sewage Sludge or Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	Off-site Third-Party Handler or Preparer	Bulk	127.32	N/A: Disposal in Landfill	N/A: Disposal in Landfill
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: GFL Fort Bend LF

TCEQ permit or registration number: TCEQ Permit #2270 Registration #96322

County where disposal site is located: Fort Bend

E. Transportation method

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

Name of the hauler: GFL

Hauler registration number: 23833

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: Click to enter text.

- USDA Natural Resources Conservation Service Soil Map:

Attachment: Click to enter text.

- Federal Emergency Management Map:

  Attachment: Click to enter text.

- Site map:

  Attachment: Click to enter text.

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

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

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

Attachment: Click to enter text.

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 54)

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Jerry Meeks, Jr.

Title: Lead Operator

Signature: _____

Date: 3/7/25

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

Click to enter text.

B. Regionalization of facilities

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

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

1. Municipally incorporated areas

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

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

☐ Yes ☐ No ☐ Not Applicable

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

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. Utility CCN areas

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

☐ Yes ☐ No

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

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

Attachment: Click to enter text.

3. ***Nearby WWTPs or collection systems***

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

☐ Yes ☐ No

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): Click to enter text.

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

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

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

Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

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

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 58)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: Click to enter text. mg/l after Click to enter text. minutes detention time at peak flow

Dechlorination process: Click to enter text.

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

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 58)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: Click to enter text.

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☐ Yes ☐ No

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

Click to enter text.

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

Click to enter text.

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

B. Wind rose

Attach a wind rose: Click to enter text.

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☐ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451):** Click to enter text.

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

Attachment: Click to enter text.

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities

- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 63)

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

☐ Yes ☒ No

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

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

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

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

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)

Does the facility discharge into tidally affected waters?

☒ Yes ☐ No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: 300 feet

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☒ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☒ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 63)

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

☒ Yes ☐ No

If yes, this Worksheet is complete.

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

Section 4. Description of Immediate Receiving Waters (Instructions Page 63)

Name of the immediate receiving waters: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

Section 5. General Characteristics of the Waterbody (Instructions Page 65)

A. Upstream influences

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

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

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: 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 2.1: STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall.

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

Section 1. General Information (Instructions Page 65)

Date of study: Click to enter text. Time of study: Click to enter text.

Stream name: Click to enter text.

Location: Click to enter text.

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 65)

Number of stream bends that are well defined: Click to enter text.

Number of stream bends that are moderately defined: Click to enter text.

Number of stream bends that are poorly defined: Click to enter text.

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Click to enter text.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
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.			

Section 3. Summarize Measurements (Instructions Page 65)

Streambed slope of entire reach, from USGS map in feet/feet: Click to enter text.

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): Click to enter text.

Length of stream evaluated, in feet: Click to enter text.

Number of lateral transects made: Click to enter text.

Average stream width, in feet: Click to enter text.

Average stream depth, in feet: Click to enter text.

Average stream velocity, in feet/second: Click to enter text.

Instantaneous stream flow, in cubic feet/second: Click to enter text.

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): Click to enter text.

Size of pools (large, small, moderate, none): Click to enter text.

Maximum pool depth, in feet: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 67)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☒ Evaporation
- ☐ Other (describe in detail): Click to enter text.
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: Click to enter text.

Section 2. Land Application Site(s) (Instructions Page 67)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Impounded Wetlands	0	0	Y

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
Impounded Wetlands	38.2	38.2	Approx. 1400x1600x1	Clay

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Click to enter text.

Section 4. Flood and Runoff Protection (Instructions Page 67)

Is the land application site within the 100-year frequency flood level?

☐ Yes ☒ No

If yes, describe how the site will be protected from inundation.

Click to enter text.

Provide the source used to determine the 100-year frequency flood level:

National Flood Insurance Rate Map (FIRM)

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

Click to enter text.

Section 5. Annual Cropping Plan (Instructions Page 67)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: Attachment #9

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: Attachment #5

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1-mile radius of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
8105605	Unused	N	Cased	

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
8106402	N/A	N	Plugged	
83194	N/A	N	Plugged	
179308	N/A	N	Plugged	
4320	Industrial	N	Plugged	
227759	Monitor	N	Cased	
227760	Monitor	N	Cased	
227761	Monitor	N	Cased	
227762	Monitor	N	Cased	
8106406	Public Supply	Y	Cased	
8105606	Observation	N	No Data	
8105602	Observation	N	Cased	
8105607	Observation	N	No Data	
66819	No Data	No Data	No Data	
4321	Industrial	N	Plugged	
8105604	Plugged	N	Plugged	

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: Attachment #10

Section 7. Groundwater Quality (Instructions Page 68)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: Click to enter text.

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? ☐ Yes ☒ No

If yes, provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: Click to enter text.

Attachment: Click to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: Attachment #11

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note:** for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: Land application of the effluent is only when needed in the Wetlands. We have not discharged to the Wetlands since the ability as been available.

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

☒ Yes ☐ No

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Land application of the effluent is only when needed in the Wetlands. We have not discharged to the Wetlands since the ability as been available.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment permit applications. Renewal and minor amendment permit applications may be asked for this worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 71)

Complete the item that applies for the method of disposal being used.

A. Irrigation

Area under irrigation, in acres: Click to enter text.

Design application frequency:

hours/day Click to enter text. **And** days/week Click to enter text.

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

Design application rate in acre-feet/acre/year: Click to enter text.

Design total nitrogen loading rate, in lbs N/acre/year: Click to enter text.

Soil conductivity (mmhos/cm): Click to enter text.

Method of application: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: Click to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations.

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

Area of bed(s), in acres: Click to enter text.

Depth of bed(s), in feet: Click to enter text.

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds, in acre-feet: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: Click to enter text.

Slopes for application area, percent (%): Click to enter text.

Design application rate, in gpm/foot of slope width: Click to enter text.

Slope length, in feet: Click to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click to enter text.

Design application frequency:

hours/day: Click to enter text. **And** days/week: Click to enter text.

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217*.

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 72)

Is the facility subject to *30 TAC Chapter 213*, Edwards Aquifer Rules?

☐ Yes ☐ No

If **yes**, is the facility located on the Edwards Aquifer Recharge Zone?

☐ Yes ☐ No

If yes, attach a geological report addressing potential recharge features.

Attachment: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 73)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: Click to enter text.

Application area, in acres: Click to enter text.

Area of drainfield, in square feet: Click to enter text.

Application rate, in gal/square foot/day: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

Area of trench, in square feet: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Number of beds: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Infiltration rate, in inches/hour: Click to enter text.

Storage volume, in gallons: Click to enter text.

Area of bed(s), in square feet: Click to enter text.

Soil Classification: Click to enter text.

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of § 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8.* Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** subsurface area drip dispersal system permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **meets** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Administrative Information (Instructions Page 74)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. Click to enter text. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

Click to enter text.

C. Owner of the subsurface area drip dispersal system: Click to enter text.

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☐ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☐ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 74)

A. Type of system

- ☐ Subsurface Drip Irrigation
- ☐ Surface Drip Irrigation
- ☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

Infiltration Rate, in inches/hour: Click to enter text.

Average slope of the application area, percent (%): Click to enter text.

Maximum slope of the application area, percent (%): Click to enter text.

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☐ Yes ☐ No

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☐ No

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: Click to enter text.

Nitrogen application rate, in lbs/gal/day: Click to enter text.

D. Dosing information

Number of doses per day: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Rest period between doses, in hours: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Number of zones: Click to enter text.

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☐ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 74)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79.*

Attachment: Click to enter text.

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73.*

Attachment: Click to enter text.

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75.*

Attachment: Click to enter text.

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157.*

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 75)

A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☐ No

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 75)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: Click to enter text.

B. Buffer variance request

Do you plan to request a buffer variance from water wells or waters in the state?

☐ Yes ☐ No

If yes, then attach the additional information required in *30 TAC § 222.81(c).*

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 75)

A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8.* Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

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 76)

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

Grab ☐ Composite ☒

Date and time sample(s) collected: 06/27/2024 08:10

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<9.2	<9.2	1	50
Aldrin	<0.04	<0.04	1	0.01
Aluminum	26.0	26.0	1	2.5
Anthracene	<5.00	<5.00	1	10
Antimony	<5.00	<5.00	1	5
Arsenic	2.97	2.97	1	0.5
Barium	41.6	41.6	1	3
Benzene	<1	<1	1	10
Benzidine	<50.0	<50.0	1	50
Benzo(a)anthracene	<5.00	<5.00	1	5
Benzo(a)pyrene	<5.00	<5.00	1	5
Bis(2-chloroethyl)ether	<10.0	<10.0	1	10
Bis(2-ethylhexyl)phthalate	<10.0	<10.0	1	10
Bromodichloromethane	4.14	4.14	1	10
Bromoform	<1	<1	1	10
Cadmium	<1.00	<1.00	1	1
Carbon Tetrachloride	<1	<1	1	2
Carbaryl	<2.56	<2.56	1	5
Chlordane*	<10.0	<10.0	1	0.2
Chlorobenzene	<1	<1	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane	1.7	1.7	1	10
Chloroform	10.8	10.8	1	10
Chlorpyrifos	<0.0500	<0.0500	1	0.05
Chromium (Total)	<3.00	<3.00	1	3
Chromium (Tri) **(*1)**	<3.00	<3.00	1	N/A
Chromium (Hex)	4.44	4.44	1	3
Copper	<2.00	<2.00	1	2
Chrysene	<5.00	<5.00	1	5
p-Chloro-m-Cresol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
p-Cresol				10
Cyanide **(*2)**	<10.0	<10.0	1	10
4,4'- DDD	<0.002	<0.002	1	0.1
4,4'- DDE	<0.009	<0.009	1	0.1
4,4'- DDT	<0.004	<0.004	1	0.02
2,4-D	<0.700	<0.700	1	0.7
Demeton (O and S)	<0.200	<0.200	1	0.20
Diazinon	<0.500	<0.500	1	0.5/0.1
1,2-Dibromoethane	<1	<1	1	10
m-Dichlorobenzene	<1	<1	1	10
o-Dichlorobenzene	<1	<1	1	10
p-Dichlorobenzene	<1	<1	1	10
3,3'-Dichlorobenzidine	<5.00	<5.00	1	5
1,2-Dichloroethane	<1	<1	1	10
1,1-Dichloroethylene	<1	<1	1	10
Dichloromethane	<1	<1	1	20
1,2-Dichloropropane	<1	<1	1	10
1,3-Dichloropropene	<1	<1	1	10
Dicofol	<0.050	<0.050	1	1
Dieldrin	<0.005	<0.005	1	0.02
2,4-Dimethylphenol	<10.0	<10.0	1	10
Di-n-Butyl Phthalate	<10.0	<10.0	1	10
Diuron	<0.0461	<0.0461	1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)	<0.007	<0.007	1	0.01
Endosulfan II (beta)	<0.004	<0.004	1	0.02
Endosulfan Sulfate	<0.005	<0.005	1	0.1
Endrin	<0.004	<0.004	1	0.02
Epichlorohydrin				---
Ethylbenzene	3.12	3.12	1	10
Ethylene Glycol				---
Fluoride	<250	<250	1	500
Guthion	<0.100	<0.100	1	0.1
Heptachlor	<0.004	<0.004	1	0.01
Heptachlor Epoxide	<0.004	<0.004	1	0.01
Hexachlorobenzene	<5.00	<5.00	1	5
Hexachlorobutadiene	<10.0	<10.0	1	10
Hexachlorocyclohexane (alpha)	<0.003	<0.003	1	0.05
Hexachlorocyclohexane (beta)	<0.004	<0.004	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.004	<0.004	1	0.05
Hexachlorocyclopentadiene	<10.0	<10.0	1	10
Hexachloroethane	<20.0	<20.0	1	20
Hexachlorophene	<10.0	<10.0	1	10
4,4'-Isopropylidenediphenol				1
Lead	<0.5	<0.5	1	0.5
Malathion	<0.100	<0.100	1	0.1
Mercury	<0.00500	<0.00500	1	0.005
Methoxychlor	<0.003	<0.003	1	2
Methyl Ethyl Ketone				50
Methyl tert-butyl ether				---
Mirex	<0.010	<0.010	1	0.02
Nickel	2.83	2.83	1	2
Nitrate-Nitrogen	<100	<100	1	100
Nitrobenzene	<10.0	<10.0	1	10
N-Nitrosodiethylamine	<20.0	<20.0	1	20
N-Nitroso-di-n-Butylamine	<20.0	<20.0	1	20

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Nonylphenol	<333	<333	1	333
Parathion (ethyl)	<0.100	<0.100	1	0.1
Pentachlorobenzene	<20.0	<20.0	1	20
Pentachlorophenol	<5.00	<5.00	1	5
Phenanthrene	<10.0	<10.0	1	10
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.03	<0.03	1	0.2
Pyridine	<20.0	<20.0	1	20
Selenium	<5.00	<5.00	1	5
Silver	<0.5	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	<10.0	<10.0	1	20
1,1,2,2-Tetrachloroethane	<1	<1	1	10
Tetrachloroethylene	<1	<1	1	10
Thallium	<1.25	<1.25	1	0.5
Toluene	1.15	1.15	1	10
Toxaphene	<0.100	<0.100	1	0.3
2,4,5-TP (Silvex)	<0.300	<0.300	1	0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane	<1.0	<1.0	1	10
1,1,2-Trichloroethane	<1.00	<1.00	1	10
Trichloroethylene	<1	<1	1	10
2,4,5-Trichlorophenol	<10.0	<10.0	1	50
TTHM (Total Trihalomethanes)	16.64	16.64	1	10
Vinyl Chloride	<1	<1	1	10
Zinc	<5.00	<5.00	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: 06/27/2024 08:10

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<5.00	<5.00	1	5
Arsenic	2.97	2.97	1	0.5
Beryllium	<0.500	<0.500	1	0.5
Cadmium	<1.00	<1.00	1	1
Chromium (Total)	<3.00	<3.00	1	3
Chromium (Hex)	4.44	4.44	1	3
Chromium (Tri) **(*1)**	<3	<3	1	N/A
Copper	<2.00	<2.00	1	2
Lead	<0.500	<0.500	1	0.5
Mercury	<0.005	<0.005	1	0.005
Nickel	2.83	2.83	1	2
Selenium	<5.00	<5.00	1	5
Silver	<0.500	<0.500	1	0.5
Thallium	<1.25	<1.25	1	0.5
Zinc	<5.00	<5.00	1	5
Cyanide **(*2)**	<10.0	<10.0	1	10
Phenols, Total	<10.0	<10.0	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	<6.0	<6.0	1	50
Acrylonitrile	<9.2	<9.2	1	50
Benzene	<1	<1	1	10
Bromoform	<1	<1	1	10
Carbon Tetrachloride	<1	<1	1	2
Chlorobenzene	<1	<1	1	10
Chlorodibromomethane	1.7	1.7	1	10
Chloroethane	<1	<1	1	50
2-Chloroethylvinyl Ether	<6	<6	1	10
Chloroform	10.8	10.8	1	10
Dichlorobromomethane [Bromodichloromethane]	4.14	4.14	1	10
1,1-Dichloroethane	<1	<1	1	10
1,2-Dichloroethane	<1	<1	1	10
1,1-Dichloroethylene	<1	<1	1	10
1,2-Dichloropropane	<1	<1	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1	<1	1	10
1,2-Trans-Dichloroethylene	<1	<1	1	10
Ethylbenzene	3.12	3.12	1	10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride	<1	<1	1	20
1,1,2,2-Tetrachloroethane	<1	<1	1	10
Tetrachloroethylene	<1	<1	1	10
Toluene	1.15	1.15	1	10
1,1,1-Trichloroethane	<1	<1	1	10
1,1,2-Trichloroethane	<1	<1	1	10
Trichloroethylene	<1	<1	1	10
Vinyl Chloride	<1	<1	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
2,4-Dinitrophenol	<50	<50	1	50
2-Nitrophenol	<20	<20	1	20
4-Nitrophenol	<50	<50	1	50
P-Chloro-m-Cresol				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	<5.0	<5.0	1	5
Benzo(a)Pyrene	<5.0	<5.0	1	5
3,4-Benzofluoranthene	<5.0	<5.0	1	10
Benzo(ghi)Perylene	<20	<20	1	20
Benzo(k)Fluoranthene	<5.00	<5.00	1	5
Bis(2-Chloroethoxy)Methane	<10	<10	1	10
Bis(2-Chloroethyl)Ether	<10	<10	1	10
Bis(2-Chloroisopropyl)Ether				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	<5.0	<5.0	1	5
Dibenzo(a,h)Anthracene	<5.0	<5.0	1	5
1,2-(o)Dichlorobenzene	<1.0	<1.0	1	10
1,3-(m)Dichlorobenzene	<1.0	<1.0	1	10
1,4-(p)Dichlorobenzene	<1.0	<1.0	1	10
3,3-Dichlorobenzidine	<5.0	<5.0	1	5
Diethyl Phthalate	<10	<10	1	10
Dimethyl Phthalate	<10	<10	1	10
Di-n-Butyl Phthalate	<10	<10	1	10
2,4-Dinitrotoluene	<10	<10	1	10
2,6-Dinitrotoluene	<10	<10	1	10
Di-n-Octyl Phthalate	<10	<10	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<20	<20	1	20
Fluoranthene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<10	<10	1	10
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclo-pentadiene				10
Hexachloroethane	<20	<20	1	20
Indeno(1,2,3-cd)pyrene	<5	<5	1	5
Isophorone	<10	<10	1	10
Naphthalene	<10	<10	1	10
Nitrobenzene	<10	<10	1	10
N-Nitrosodimethylamine	<20	<20	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	<0.004	<0.004	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.003	<0.003	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.004	<0.004	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.004	<0.004	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.006	<0.006	1	0.05
Chlordane	<0.10	<0.10	1	0.2
4,4-DDT	<0.004	<0.004	1	0.02
4,4-DDE	<0.009	<0.009	1	0.1
4,4,-DDD	<0.002	<0.002	1	0.1
Dieldrin	<0.002	<0.002	1	0.02
Endosulfan I (alpha)	<0.007	<0.007	1	0.01
Endosulfan II (beta)	<0.004	<0.004	1	0.02
Endosulfan Sulfate	<0.005	<0.005	1	0.1
Endrin	<0.004	<0.004	1	0.02
Endrin Aldehyde	<0.003	<0.003	1	0.1
Heptachlor	<0.004	<0.004	1	0.01
Heptachlor Epoxide	<0.004	<0.004	1	0.01
PCB-1242	<0.03	<0.03	1	0.2
PCB-1254	<0.03	<0.03	1	0.2
PCB-1221	<0.03	<0.03	1	0.2
PCB-1232	<0.03	<0.03	1	0.2
PCB-1248	<0.03	<0.03	1	0.2
PCB-1260	<0.03	<0.03	1	0.2
PCB-1016	<0.03	<0.03	1	0.2
Toxaphene	<0.10	<0.10	1	0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a "<".

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

N/A

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

☐ Yes ☒ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of **1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: 11

48-hour Acute: 8

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
02/25/20	Mysidopsis Bahia	11%	11%
02/25/20	Menidia Beryllina	11%	11%
08/17/20	Mysidopsis Bahia	11%	11%
08/17/20	Menidia Beryllina	11%	11%
11/02/20	Mysidopsis Bahia	11%	11%
11/02/20	Menidia Beryllina	11%	11%
01/18/21	Mysidopsis Bahia	11%	11%
01/18/21	Menidia Beryllina	11%	11%
05/10/21	Mysidopsis Bahia	11%	11%
05/10/21	Menidia Beryllina	11%	11%
09/13/21	Mysidopsis Bahia	11%	11%
11/29/21	Mysidopsis Bahia	11%	11%
11/29/21	Menidia Beryllina	11%	11%
04/18/22	Mysidopsis Bahia	11%	11%
04/18/22	Menidia Beryllina	11%	11%
11/07/22	Mysidopsis Bahia	11%	11%
03/20/23	Mysidopsis Bahia	11%	11%
03/20/23	Menidia Beryllina	11%	11%
10/09/23	Mysidopsis Bahia	11%	11%
04/08/24	Mysidopsis Bahia	11%	11%
04/08/24	Menidia Beryllina	11%	11%

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 87)

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: 1

Average Daily Flows, in MGD: 0.003

Significant IUs – non-categorical:

Number of IUs: 1

Average Daily Flows, in MGD: 0.04

Other IUs:

Number of IUs: Click to enter text.

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

B. Treatment plant interference

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

☐ Yes ☒ No

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

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 87)

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
None				

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 88)

A. General information

Company Name: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

Click to enter text.

C. Product and service information

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

Click to enter text.

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: 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.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 90)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): Click to enter text.

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

Location description (if no address is available): Click to enter text.

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

5. **Latitude and Longitude, in degrees-minutes-seconds**

Latitude: Click to enter text.

Longitude: Click to enter text.

Method of determination (GPS, TOPO, etc.): Click to enter text.

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: Click to enter text.

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: Click to enter text.

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

Table 7.0(1) – Down Hole Design Table

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
Casing					
Tubing					
Screen					

Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Click to enter text.
2. Receiving Formation Name of Injection Zone: Click to enter text.
3. Well/Trench Total Depth: Click to enter text.
4. Surface Elevation: Click to enter text.
5. Depth to Ground Water: Click to enter text.
6. Injection Zone Depth: Click to enter text.
7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

   Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

   Name: Click to enter text.

   Thickness: Click to enter text.
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

   Attach as Attachment E.
9. Horizontal and Vertical extent of contamination and injection plume

   Attach as Attachment F.
10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

    Attach as Attachment G.
11. Injection Fluid Chemistry in PPM at point of injection

    Attach as Attachment H.
12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.
13. Maximum injection Rate/Volume/Pressure: Click to enter text.
14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.
15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click to enter text.
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.
17. Sampling frequency: Click to enter text.
18. Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

1. Type of Facility: Click to enter text.
2. Contamination Dates: Click to enter text.
3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): Click to enter text.
4. Previous Remediation (attach results of any previous remediation as attachment M): Click to enter text.

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

Class V Injection Well Designations

5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
5D02 Storm Water Drainage (IW designed for the disposal of rain water)
5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
5F01 Agricultural Drainage (IW that receive agricultural runoff)
5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
5W09 Untreated Sewage
5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
5W12 WTTP disposal
5W20 Industrial Process Waste Disposal Wells
5W31 Septic System (Well Disposal method)
5W32 Septic System Drainfield Disposal
5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27 Other Wells
5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29 Abandoned Drinking Water Wells (waste disposal)

Attachment 1

Payment Voucher

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

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

Transaction Information

Trace Number: 582EA000660856
Date: 03/25/2025 01:29 PM
Payment Method: CC - Authorization 0000086142
ePay Actor: JERRY MEEKS JR
Actor Email: jerry.meeks2@veolia.com
IP: 165.225.216.166
TCEQ Amount: $2,015.00
Texas.gov Price: $2,060.59*

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

Payment Contact Information

Name: JERRY MEEKS JR
Company: VEOLIA
Address: PO BOX 3201, FREEPORT, TX 77542
Phone: 979-233-4281

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
759114	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL		$2,000.00
759115	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		$15.00
		TCEQ Amount:	$2,015.00

ePay Again Exit ePay

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

Attachment 2
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 600641799		RN 102184025

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 2/21/2025

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

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

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

City of Freeport

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

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

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

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

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

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

15. Mailing Address: 1201 N. Ave. H

City	Freeport	State	TX	ZIP	77541	ZIP + 4	

16. Country Mailing Information (if outside USA)	17. E-Mail Address (if applicable)
	LPetty@Freeport.TX.US

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

(979) 233-3526		(979) 373-0113

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.)*

Central WWTP

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	931 E. Floodgate Rd							
	City	Freeport	**State**	TX	**ZIP**	77541	**ZIP + 4**	
24. County	Brazoria							

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

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

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:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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

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

Domestic wastewater facility.

34. Mailing Address:	**1201 N. Ave. H**							
	City	**Freeport**	**State**	**TX**	**ZIP**	**77541**	**ZIP + 4**	
35. E-Mail Address:	**Jerry.Meeks2@Veolia.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(979) 233-4281		**(979) 233-5833**

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:
	WQ0010882001			

SECTION IV: Preparer Information

40. Name:	Jerry Meeks, Jr.	**41. Title:**	Lead Operator

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(979) 233-4281		(979) 233-5833	Jerry.Meeks2@Veolia.com

SECTION V: Authorized Signature

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

Company:	Veolia	**Job Title:**	Lead Operator	
Name *(In Print):*	Jerry Meeks, Jr.		**Phone:**	(979) 233- **4281**
Signature:			**Date:**	2/21/2025

Attachment 3

SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: City of Freeport

   Permit No. WQ00 10882001 EPA ID No. TX 0033332

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

   931 E. Floodgate Rd. Freeport, TX. 77541

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Lance Petty

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

Title: City Manager

Mailing Address: 1201 N. Ave. H

City, State, Zip Code: Freeport, TX. 77541

Phone No.: 979-233-3526 Ext.: Fax No.: 979-373-0113

E-mail Address: LPetty@Freeport.tx.us

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

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.

Effluent is discharged into the Brazos River (segment number 1201).

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):

Site already in operation.

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

N/A

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

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

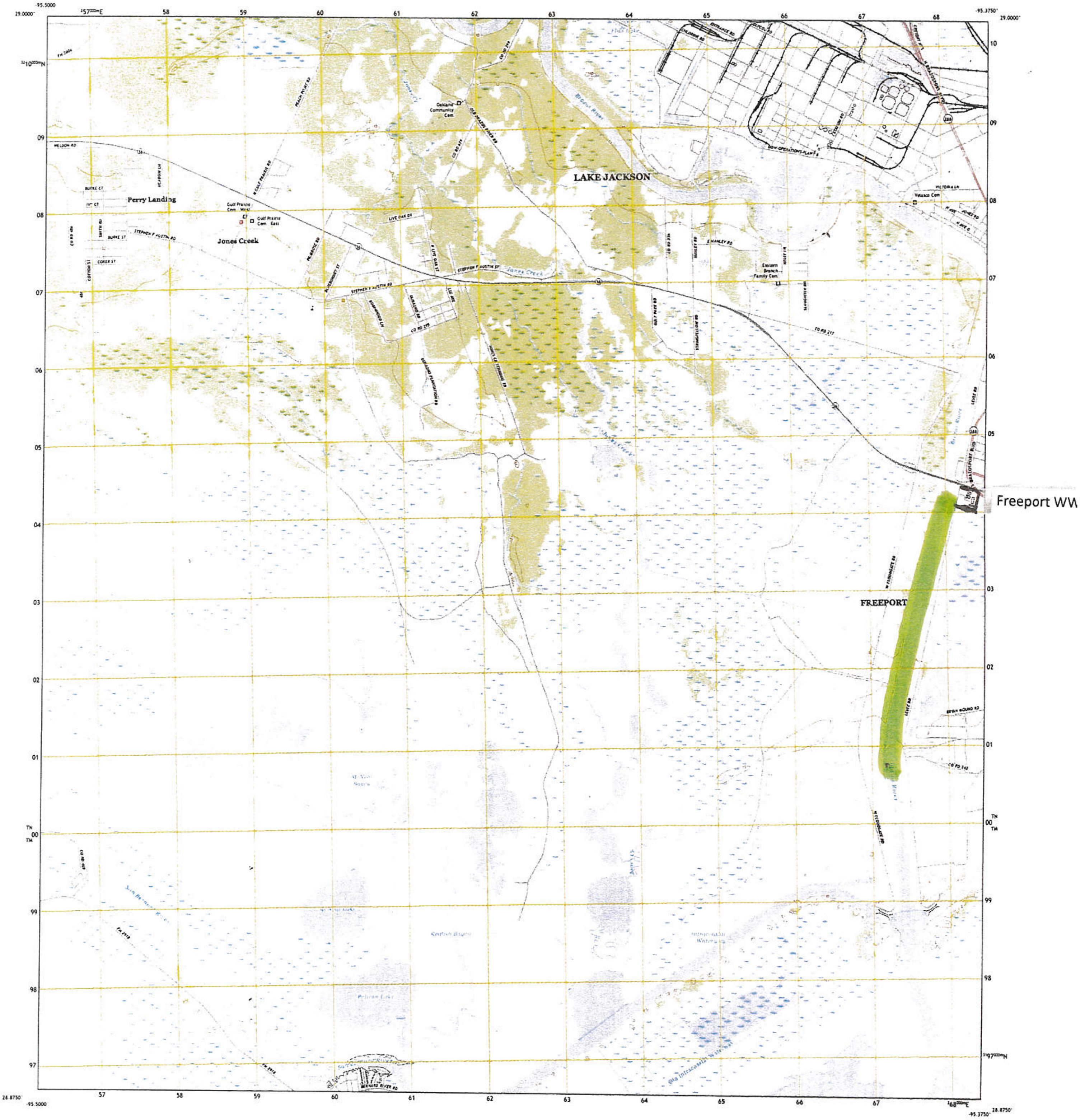
4. Provide a brief history of the property, and name of the architect/builder, if known.

USGS
science for a changing world

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

The National Map
US Topo

JONES CREEK QUADRANGLE
TEXAS - BRAZORIA 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 15R
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
Names ..... GNIS, 1979 - 2022
Hydrography ..... National Hydrography Dataset, 2002 - 2018
Contours ..... National Elevation Dataset, 2008
Boundaries ..... Multiple sources; see metadata file 2019 - 2021
Wetlands ..... FWS National Wetlands Inventory Not Available

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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

QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Brazoria
2 Lake Jackson
3 Oyster Creek
4 Cedar Lane NE
5 Freeport
6 Cedar Lakes West
7 Cedar Lakes East

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

JONES CREEK, TX
2022

Attachment 4
Plain Language Summary

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS 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 Freeport (CN600641799) operates the City of Freeport Wastewater Treatment Plant (RN102184025), a domestic wastewater treatment facility. The facility is located at 931 E. Floodgate Rd., in Freeport, Brazoria County, Texas 77541. The City of Freeport is requesting a renewal of the wastewater permit to discharge treated domestic wastewater to the Brazos River. When needed, there is also an option to discharge to the impounded wetlands.

Discharges from the facility are expected to contain total suspended solids and BOD. Domestic wastewater is treated by chlorine gas.

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 Freeport (CN600641799) opera la Planta de Tratamiento de Aguas Residuales de la Ciudad de Freeport (RN102184025), una instalación de tratamiento de aguas residuales domésticas. La instalación está ubicada en 931 E. Floodgate Rd., en Freeport, Condado de Brazoria, Texas 77541. La ciudad de Freeport está solicitando una renovación del permiso de aguas residuales para descargar aguas residuales domésticas tratadas en el río Brazos. Cuando sea necesario, también existe la opción de descargar en los humedales incautados.

Se espera que las descargas de la instalación contengan sólidos suspendidos totales y DBO. Las aguas residuales domésticas se tratan con cloro gaseoso.

Attachment 5
USGS Map

Attachment 6
Treatment Process Flow

The plant headworks has a Heli-sieve for removal of screenings, plastics and some grit ahead of the secondary treatment process. Downstream of the screen, a flow distribution box allows the flow to be split to either the package activated sludge plant or to the trickling filter plant. The distribution box contains two rectangular weirs of unequal length set at the same elevation. Weir lengths have been fabricated such that approximately 70 percent of the influent flow is routed to the activated sludge plant and 30 percent is routed to the trickling filter plant. Screenings from the Heli-sieve is collected, conveyed and dewatered in a screw conveyor, then dumped in a dumpster for removal.

Approximately 70 percent of all flows are directed to the activated sludge plant. The plant is configured with two aeration cells and two chlorination contact chambers in the outer annulus (126 feet diameter), surrounding an inner clarifier (80 feet diameter). The plant operates as a conventional activated sludge plant with a capacity of 3.2 MGD. Sludge settled in the clarifier is returned to the aeration zones by air lift pumping. Waste sludge flows by gravity to the digester. Returned activated sludge and waste activated sludge flow are metered using magnetic flow meters.

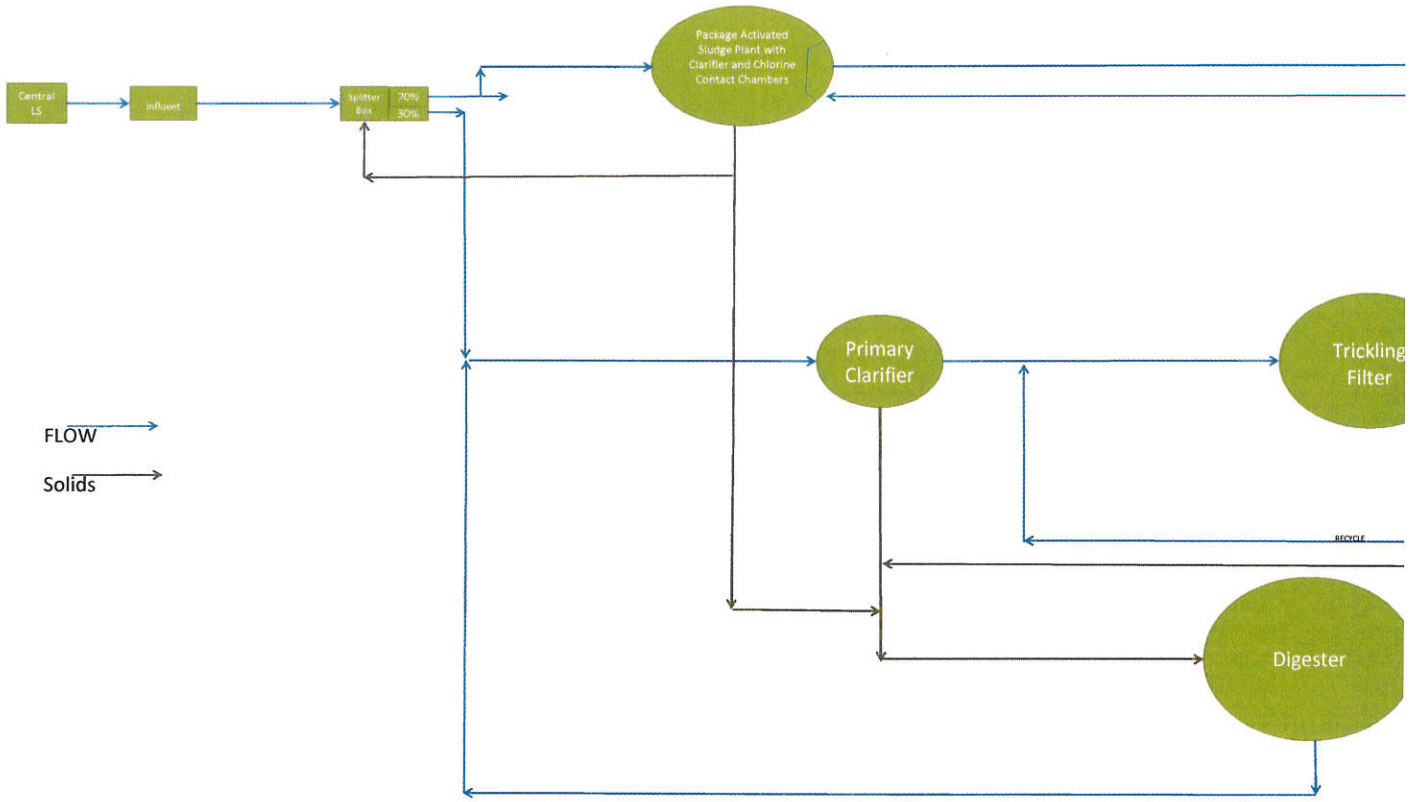
Aeration and mixing of the aeration basin is achieved by a fine bubble diffused air system. Three positive displacement blowers are mounted at grade level next to the influent screening structure. These blowers provide all of the air for aeration and air lift pumps for the return activated sludge (RAS).

Flow from the package plant's clarifier section enter into the inlet well of the chlorine contact tank by gravity, and the trickling filter plant effluent is pumped to the chlorine chamber. Chlorine gas is injected at the inlet well with a submersible vacuum induction feeder mixer. Two symmetrical contact chambers provide a minimum contact time of 20 minutes at the peak two-hour flows of 8 MGD.

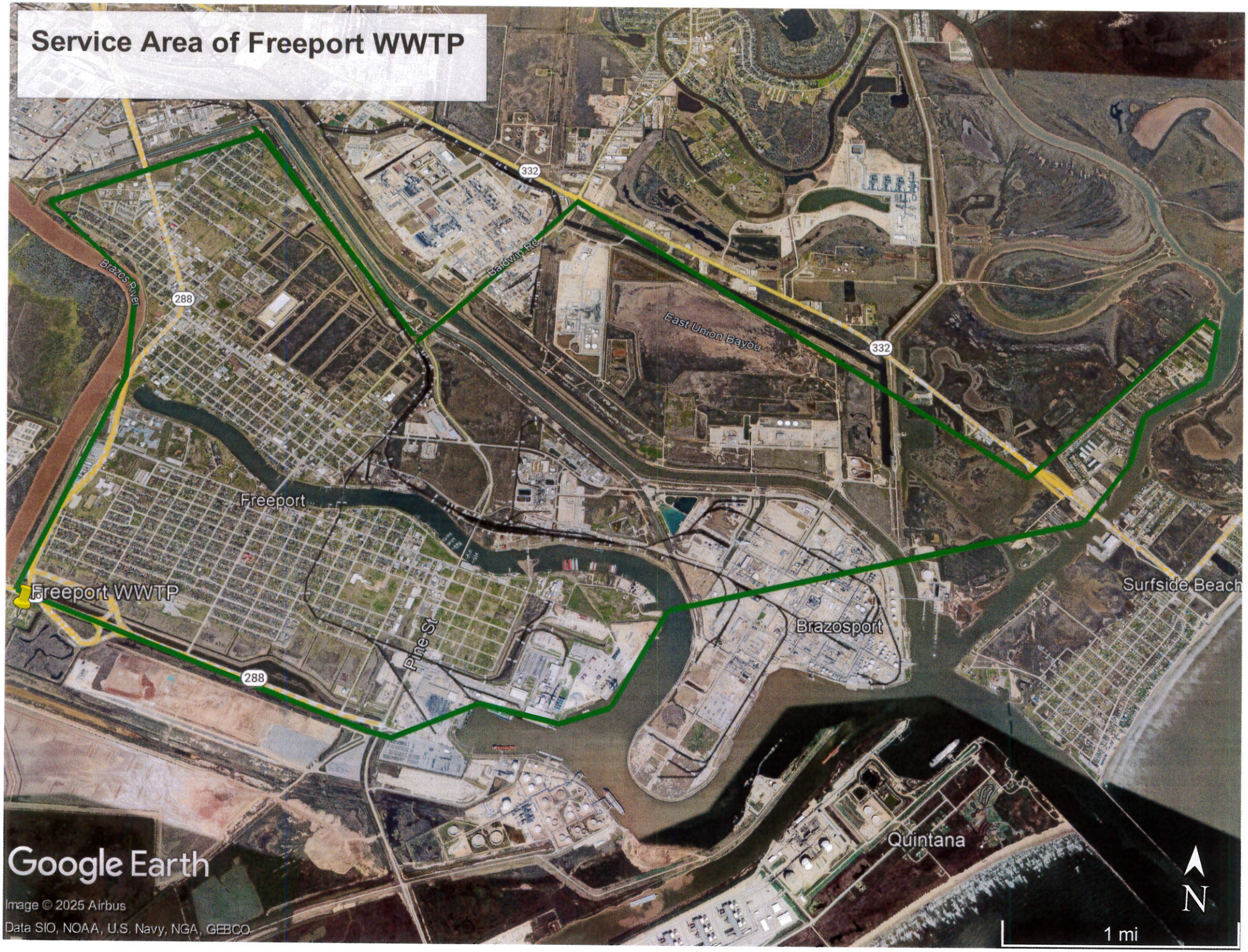
From the effluent well of the chlorine contact tank, the effluent flows by gravity via a 20 inch pipe to the effluent chamber where the flow is measured with the existing ultrasonic level transmitter and V-notch weir. A permanent sampling point for chlorine residual is located in the manhole just before the dechlorination point in front of the effluent chamber.

Attachment 7
Flow Diagram

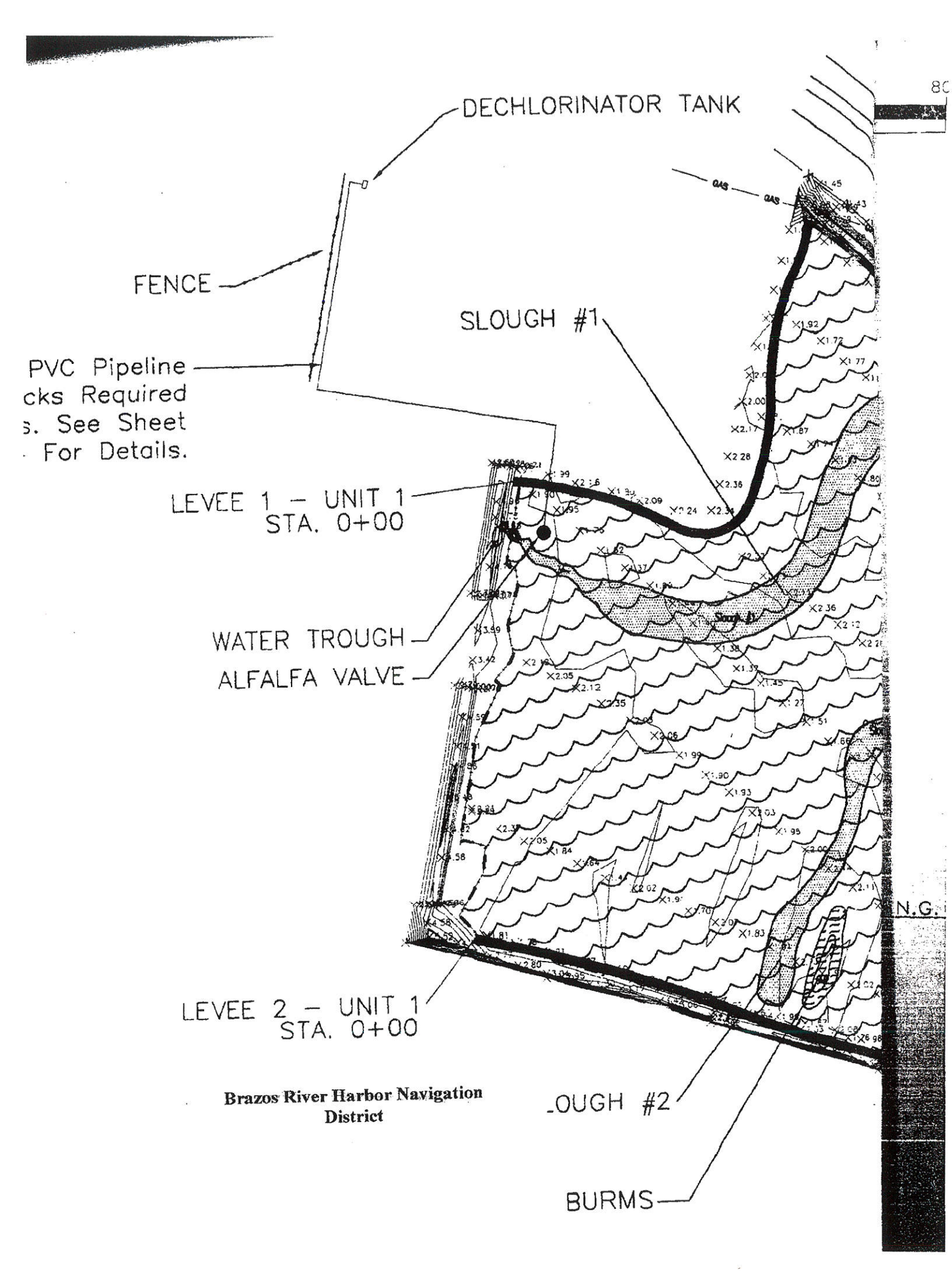
City of Freeport Process Flow Diagram

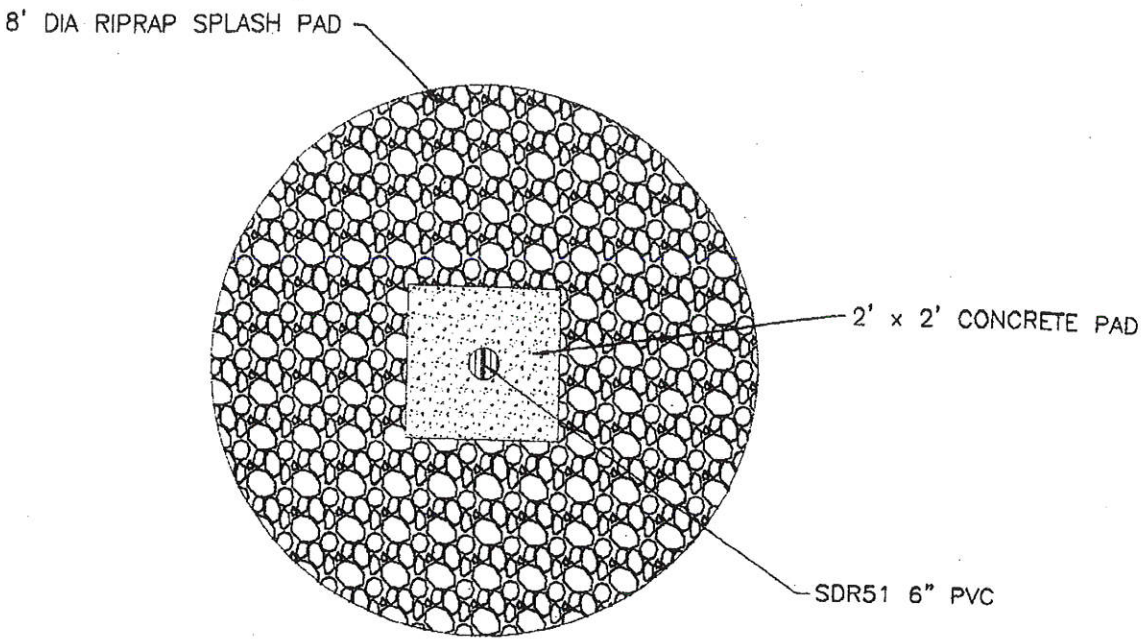


Attachment 8
Site Drawings

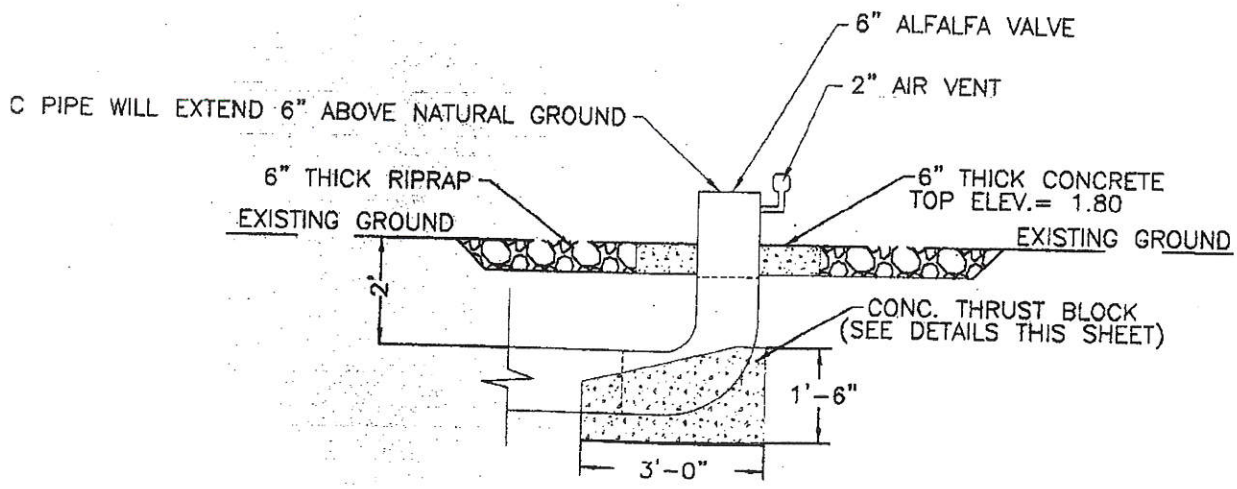

Service Area of Freeport WWTP
Brazos River
288
Baldwin Rd
332
East Union Bayou
332
Freeport
Freeport WWTP
Pine St
288
Brazosport
Surfside Beach
Quintana
Google Earth
Image © 2025 Airbus
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
N
1 mi


Impounded Wetlands
Ryan Expy
36
36
36
Levee Rd
Levee Rd
Levee Rd
S Brazosport Blvd
Nolan Ryan Expy
Nolan Ryan Expy
Levee Rd
Levee Rd
Levee Rd
Freeport WWTP
Impounded Wetlands
Google Earth
N
900 ft


DECHLORINATOR TANK
FENCE
SLOUGH #1
PVC Pipeline
cks Required
s. See Sheet
For Details.
LEVEE 1 – UNIT 1
STA. 0+00
WATER TROUGH
ALFALFA VALVE
LEVEE 2 – UNIT 1
STA. 0+00
Brazos River Harbor Navigation
District
BURMS



SPLASH PAD DETAIL FOR ALFALFA VALVE
NOT TO SCALE
TOP VIEW



SPLASH PAD DETAIL FOR ALFALFA VALVE
NTS
FRONT VIEW

**VAL
COI

EXISTING GROUND

EXISTING GROUND(ELEV.=6.5)

Attachment 9
Annual
Cropping Plan

Cropping Plan for City of Freeport Discharge 002 to Impounded Wetlands

Soil Map

Please refer to the attached soil map for the soil in the impounded wetlands of the City of Freeport.

Crops and Acreage

Various wild vegetation could be irrigated with the discharge from the City of Freeport's WWTP.

Growing Seasons

There is not a growing season for the vegetation within the wetlands.

Nutrient Requirements

The wetlands are only irrigated with the effluent from the WWTP as needed. There has never been a need to discharge to the wetlands.

Supplemental Watering Requirements

If the need to supplement due to drought or other reasons, then the WWTP has the ability. There has never been a need to supplement since there has been the ability too.

Crop Harvesting

There is no crop harvesting in the wetlands.

Attachment 10
Well Data

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 81-06-402

groundwater

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	8106402
County	Brazoria
River Basin	San Jacinto-Brazos
Groundwater Management Area	14
Regional Water Planning Area	H - Region H
Groundwater Conservation District	Brazoria County GCD
Latitude (decimal degrees)	28.947222
Latitude (degrees minutes seconds)	28° 56' 50" N
Longitude (decimal degrees)	-95.371389
Longitude (degrees minutes seconds)	095° 22' 17" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	112CHCTU - Chicot Aquifer, Upper
Aquifer	Gulf Coast
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	5
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	249
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	3/0/1953
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Freeport Well #9
Driller	Layne Texas
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0200005D
Groundwater Conservation District Well Number	
Owner Well Number	9
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	3/26/1992
Last Update Date	12/15/2009

Remarks Owners well #9. TCEQ ID #0200005D. Plugged PS well.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

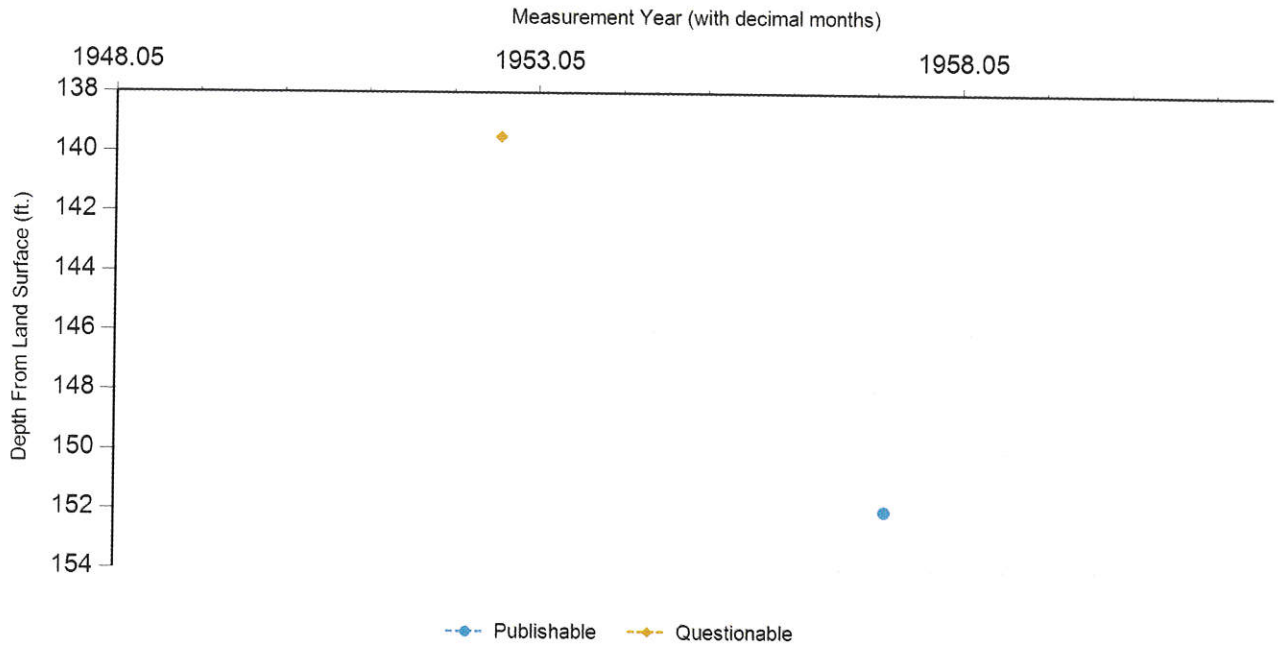
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	8/11/1952		139.5		-134.5	1	Texas Water Development Board	Steel Tape	17	
P	1/0/1957		152	12.50	-147	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable

Remark ID	Remark Description
17	Measurement before well completion

Water Quality Analysis

Sample Date: 3/24/1959 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:**

Sampled Aquifer: Chicot Aquifer, Upper

Analyzed Lab: **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		468.03	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		571.16	mg/L	
00910	CALCIUM (MG/L)		23	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		168	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		119	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		400	ug/L	
00920	MAGNESIUM (MG/L)		15	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		6.98		
00955	SILICA, DISSOLVED (MG/L AS SI02)		16	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		12.04		
00932	SODIUM, CALCULATED, PERCENT		84	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)	calculated	302	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		2	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		806	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

USGS Rep. (GW)
April 1966

Well No BH 81-06-402

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR — GEOLOGICAL SURVEY — WATER RESOURCES DIVISION

MASTER CARD W. SANDEEN — 1:24,000

Record by (W. L NAPPEL 8-11-52) Source of data E. VICKERS Date 1-16-67 Map FREEPORT, 1963

State TEXAS [48] County (or town) BRAZORIA [BH]

Latitude: 28 56 49 N Longitude: 095 22 17 Sequential number: 1

Lat-long accuracy: 1 T. S, R W, Sec

Local well number: BH 81 06 402 Other number: CITY # 9 B&H

Local use: Owner of name: CITY FREE PORT

Owner or name: CITY FREEPORT Address: FREEPORT, TEXAS

Ownership: (C) County, (F) Fed Gov't, (H) City, Corp or Co, (P) Private, (S) State Agency, (W) Water Dist — M

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Irr, (I) Ind, (N) Ind, (P) P S, (R) Rec, (S) Stock, (T) Institu, (U) Unused, (V) Repressure, (W) Recharge, (X) Dual-P S, (Y) Dual-other, (Z) Other — P

Use of well: (A) Anode, (B) Drain, (G) Injection, (H) Heat Exc, (O) Obs, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdrawn, (X) Waste, (S) Destroyed — W

DATA AVAILABLE: Well data Freq. W/L meas.: 8-11-52 Q Yield aquifer char.

Hyd. lab. data:

Qual. water data: type: (RAW) RPT

Freq. sampling: 3-24-59 T Pumpage inventory: yes (no) period:

Aperture cards: yes

Log data: D E

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 249 ft 249 Meas. rept 6

Depth cased (first perf.): 209 ft 209 Casing type: Diam. 10 3/4 in 10

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (O) open end, (P) perf., screen, sd. pt., (S) slotted, (T) shored, (W) open hole, (X) other G

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd rot, (J) jetted, (P) air percussion, (R) reverse rotary, (T) trenching, (V) driven, (W) drive wash, (X) other N

Date Drilled: MARCH, 1953 3 5 3 Pump intake setting: ft

Driller: LAYNE TEXAS

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple (cent.), (M) multiple (turb.), (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (X) other T Deep Shallow

Power (type): diesel, (elec), nat gas, gasoline, hand, LP gas, wind; H.P. 50 Trans. or meter no.

Descrip. MP TOP 1" BREATHER NIPPLE, 3.0 ft above below LSD Alt. MP

Alt. LSD: 24 2 Accuracy (source): 5' TODO 3

Water Level 142.46 ft above below MP; Ft above below LSD 139 Accuracy: TAPE A

Date meas: 8-11-52 8 5 2 Yield: RPT 420 gpm 420 Method determined

Drawdown: ft Accuracy: Pumping period hrs

QUALITY OF WATER DATA: Iron ppm Sulfate ppm Chloride ppm Hard. ppm

Sp. Conduct K x 10^6 Temp. °F Date sampled

Taste, color, etc.

C.U

-137

8.57

Well No. BH 81-06-402

Latitude-longitude N S d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD 1 19

Physiographic Province: ______ 0 3 (20 21) Section: ______

F (22) Drainage Basin: ______ 5 2 B (23 25) Subbasin: ______ (26)

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (O) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat ______ 27 F

MAJOR AQUIFER: ______ system, ______ series Q G (28 29) ______ aquifer, formation, group C U (30 31)

Lithology: ______ (32 33) Origin: ______ (34) Aquifer Thickness: ______ ft

(35 37) Length of well open to: 30 ft 3 0 (38 40) Depth to top of: 209 ft 2 0 9 (41 43)

MINOR AQUIFER: ______ system, ______ series (44 45) ______ aquifer, formation, group (46 47)

Lithology: ______ (48 49) Origin: ______ (50) Aquifer Thickness: ______ ft

(51 53) Length of well open to: ______ ft (54 56) Depth to top of: ______ ft (57 59)

Intervals Screened: 209 - 239

Depth to consolidated rock: ______ ft (60 63) Source of data: ______ 64

Depth to basement: ______ ft (65 68) Source of data: ______ 69

Surficial material: ______ (70 71) Infiltration characteristics: ______ 72

Coefficient Trans: ______ gpd/ft (73 75) Coefficient Storage: ______ (76 78)

Coefficient Perm: ______ gpd/ft^2; Spec cap: ______ gpm/ft; Number of geologic cards: ______ 79

Well No. BH 81-06-402

GPO 857-700

Geological Survey

UNITED STATES DEPARTMENT OF THE INTERIOR
Ground Water Analysis

720.6

Water Resources Division
Austin, Texas

State: Texas [4 9] (1 2) County: BRAZORIA [B R] (3 4) Well No.

Latitude: 28 56 49N (5–11) Longitude: 095 - - 17 (12–18) Seq. No. 1 (19) Date M D Y: -3 24 59 (20–25) Sampling Depth (26–29) Type (30)

Local Well No: BH 81-06-407 Location

Owner: — Date drilled: Depth: 249' WBF Prod. intervals KEY PUNCHED Water level

Sampled after pumping Yield GPM Pt. of coll. Appearance Use Collector

Constituent	Value		Constituent	mg/l		Constituent	Value
K x 10⁶, R KCl, R sample (31–35)			HCO_3 ml; Total Alk as CO_3 (62–65)	572		B A mg ml (36–38)	
pH (36–38)	7.9		CO_3 ml (66–67)	10		Al (39–41)	
Temperature °C (39–41)			SO_4 ml; Blk; Std; Sample (68–72)	2		Fe (42–45)	.04
Density at 20°C			Cl ml (73–78)	203		Mn (46–49)	
SiO_2 ml; Sample (42–44)	16		Source 79: 6; Card No. 80: 0			Cu (50–52)	
Al ml; A 0.00250 mg; .00625 mg; .0125 mg; .025 mg; Sample; mg/l			F ml; A 1.00 mg/l; 2.00 mg/l; A sample (26–28)			Pb (53–54)	
Fe A 0.025 mg; ml Sample Total mg/l; ml Sample Diss. mg/l			NO_3 ml std. ml; A sample; A ml std; A ml std Factor (29–32)			Zn (55–57)	
Mn Total mg/l; Dissolved mg/l			NO_2 ml mg/l; A 0.01 mg; .02 mg; .05 mg; Sample			Dissolved solids: Determined (58–63); Calculated (64–69)	
Ca ml (45–49)	23		PO_4 ml Ortho Total; A 0.0050 mg; .0100 mg; .0250 mg; .0500 mg; Sample (33–35)			Hardness ml; me/l Ca + Mg; me/l Alk; me/l NCH; Ca+Mg (70–73); NCH (74–77)	
Mg (50–53)	16		Total anions			Color (78–79); Card No. 80: R	
Na (54–58)	302					Br (26–28); I (29–31)	
Na + K Calc.						Alk. as $CaCO_3$ (32–35); Free CO_2 (36–38)	
K (59–61)						Percent Na; SAR (39–41); RSC (42–44)	
Percent error; Total cations						MBAS (45–47); NO_2 (67–68); Card No. 80: S	

Milliequivalents per liter

Na+K — Cl
Ca — HCO_3+CO_3
Mg — SO_4

Analyst ______ Checked by ______
Date begun ______ Completed ______

Transmittals	Date
Records processing----	
Collector------------	
Owner---------------	

Recorded by: ______ Punched by: ______ Date: ______

Geological Survey

UNITED STATES DEPARTMENT OF THE INTERIOR
Ground Water Analysis

no. 3

Water Resources Division
Austin, Texas

State: Texas 48 County: BRAZORIA BH Well No. Latitude 285649N Longitude 0952217 Seq. No. 1 Date -32459 (M D Y) Sampling Depth Type

Local Well No. BH 81-06-402 Location

Owner: Date drilled: Depth: 249' WBF Prod. intervals KEY PUNCHED Water level

Sampled after pumping Yield GPM Pt. of coll. Appearance Use Collector

K x 10^6 R KCl R sample

pH 7.7 Temperature °C

Density at 20°C mg/l me/l

SiO_2 ml Sample 22

Al ml; A 0.00250 mg, .00625 mg, .0125 mg, .075 mg, Sample; mg/l

Fe A 0.025 mg; ml Sample Total mg/l; ml Sample Diss. mg/l

Mn Total mg/l

Dissolved mg/l

Ca ml 29

Mg 15

Na 269

Na + K Calc.

K

Percent error Total cations

HCO_3 ml 571

Total Alk as CO_3

CO_3 ml 7

SO_4 ml; Blk; Std; Sample 2

Cl ml 168

Source 79 6 Card No. 80 Q

F ml; A 1.00 mg/l; 2.00 mg/l; A sample

NO_3 ml std. ml; A sample; A ml std; A ml std Factor

NO_2 ml mg/l; A 0.01 mg; .02 mg; .05 mg; Sample

PO_4 ml Ortho Total; A 0.0050 mg; .0100 mg; .0250 mg; .0500 mg; Sample

Total anions

Milliequivalents per liter

B A mg; mg; mg; mg; ml

Al; Fe .04; Mn

Cu; Pb; Zn

Dissolved solids: Determined; Calculated

Hardness ml; me/l Ca + Mg; me/l Alk; me/l NCH; Ca+Mg; NCH

Color; Card No. R

Br; I

Alk. as $CaCO_3$; Free CO_2

Percent Na; SAR; RSC

MBAS; NO_2; Card No. S

Analyst; Checked by

Date begun; Completed

Transmittals	Date
Records processing----	
Collector------------	
Owner---------------	

Recorded by: Punched by: Date:

STATE OF TEXAS PLUGGING REPORT for Tracking #83194

Owner:	**Nat. Conv. Strore Inc. #2597**	Owner Well #:	**MW-2**
Address:	**P.O. Box 696000 San Antonio, TX 78269**	Grid #:	**81-06-4**
Well Location:	**1922 West 4th Street Freeport, TX 77541**	Latitude:	**28° 57' 21" N**
		Longitude:	**095° 22' 25" W**
Well County:	**Brazoria**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company:	**No Data**	Date Drilled:	**No Data**
Driller:	**No Data**	License Number:	**No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**4**		**25**

Plugging Information

Date Plugged: **8/22/2012** Plugger: **William A. Clayton**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	*Top (ft.)*	*Bottom (ft.)*
4	**0**	**25**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**3**	**0.40 Cement**
3	**25**	**2.75 Bentonite**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling, Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **William A. Clayton** License Number: **53420**

Comments: **Amended 9/17/12 Ref.# 10689**

Report Amended on by Request #10689

STATE OF TEXAS PLUGGING REPORT for Tracking #179308

Owner:	**Phillips 66 Company**	Owner Well #:	**Freeport Termio**
Address:	**P.O. Box 866 Sweeny, TX 77480**	Grid #:	**81-05-6**
Well Location:	**523 Levee Rd. Freeport, TX 77541**	Latitude:	**28° 56' 47" N**
		Longitude:	**095° 22' 42" W**
Well County:	**Brazoria**	Elevation:	**No Data**

Well Type: **Industrial**

Drilling Information

Company: **Goolsby WW** Date Drilled: **9/13/2011**

Driller: **George R Goolsby** License Number: **1765**

Well Report Tracking #267044

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7**	**0**	**265**

Plugging Information

Date Plugged: **7/26/2018** Plugger:

Plug Method: **Tremmie pipe cement from bottom to top**

Variance Number: **049-18**

Casing Left in Well:

Dia (in.)	*Top (ft.)*	*Bottom (ft.)*
4	**2**	**265**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**120**	**Cement 5 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Goolsby Water Well Service LLC**

20823 N. Hwy. 36
Brazoria, TX 77422

Driller Name: **RYAN GOOLSBY** License Number: **5002**

Comments: **VARIANCE NO. 049-18 PUMP STUCK IN CASING AT 120'**

STATE OF TEXAS WELL REPORT for Tracking #4320

Owner:	**Royal Oil Company**	Owner Well #:	**No Data**
Address:	**500 N. Shoreline Suite 807 Corpus Christi, TX 78471**	Grid #:	**81-05-6**
Well Location:	**Bryan Mound Navigation District Freeport, TX 77541**	Latitude:	**28° 56' 35" N**
		Longitude:	**095° 23' 08" W**
Well County:	**Brazoria**	Elevation:	**No Data**

****This well has been plugged**** **Plugging Report Tracking #4865**

Type of Work: **New Well** Proposed Use: **Industrial**

Drilling Start Date: **10/29/2001** Drilling End Date: **10/29/2001**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7**	**0**	**205**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**10**	**5**

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **no sewer present**

Surface Completion: **Alternative Procedure Used**

Water Level: **25 ft.** below land surface on **2001-10-29** Measurement Method: **Unknown**

Packers: **pvc wash valve 200**

Type of Pump: **Submersible** Pump Depth (ft.): **105**

Well Tests: **Jetted** **Yield: 120 GPM**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Ronnie Goolsby Water Well**

103 Burnett
Brazoria, TX 77422

Driller Name: **G.R. Goolsby** License Number: **1765**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**50**	**top soil and clay red and black**
50	**170**	**clay brown**
170	**203**	**sand red**
203	**205**	**clay brown**
205		**total depth**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	**new**	**pvc**	**well casing +2-190 sch 40**
4	**new**	**pvc**	**slot screen .006 190-200 sch 40**
4	**new**	**pvc**	**tail pipe 200-205 sch 40**

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #227759

Owner:	**Bank of Texas, Special Assete Group**	Owner Well #:	**MW-1**
Address:	**8255 Walnut Hill Lane Dallas, TX 75231**	Grid #:	**81-05-6**
Well Location:	**930 East Floodgate Road, Freeport, TX 77541**	Latitude:	**28° 56' 40" N**
		Longitude:	**095° 22' 46" W**
Well County:	**Brazoria**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **7/20/2010** Drilling End Date: **7/20/2010**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.75**	**0**	**35**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**18**	**35**	**Gravel**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**16**	**4, Portland**
	16	**18**	**1, Bentonite**
	18	**35**	**10, Sand**

Seal Method: **Grout**

Sealed By: **Advanced Drilling Systems, Inc.**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Advanced Drilling Systems**

904 W. Tiwell
Houston, TX 77091

Driller Name: **M. Moya**

License Number: **4990**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
		0-2: Miscellaneous gravel and shell mixture
		2-5: Yellowish red to dark reddish brown at 4-5, firm, dry, silty clay with micellaneous gravel
		5-10: Reddish brown, soft, damp, silty clay with traces of chert gravel
		10-15: Reddish brown to dark reddish gray at 14, soft, moist to wet, silty clay
		15-22: Gray very soft, wet, crumbly silty clay, calcareous nodules
		22-24: Gary and reddish yellow mottled silty clay, with iron and manganese satains, calcareous nodules
		24-25: brown, wet, clayey sand
		25-35: Yellowish red to strong brown at 30, stiff to soft, wet to saturated, silty fine sand to 30

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	New	PVC	Casing 0-20 sch-40
2	New	PVC	Slotted 20-35 0.01

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #227760

Owner:	**Bank of Texas, Special Assete Group**	Owner Well #:	**MW-2**
Address:	**8255 Walnut Hill Lane Dallas, TX 75231**	Grid #:	**81-05-6**
Well Location:	**930 East Floodgate Road, Freeport, TX 77541**	Latitude:	**28° 56' 39" N**
		Longitude:	**095° 22' 46" W**
Well County:	**Brazoria**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **7/20/2010** Drilling End Date: **7/20/2010**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.75**	**0**	**35**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**18**	**35**	**Gravel**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**16**	**4, Portland**
	16	**18**	**1, Bentonite**
	18	**35**	**10, Sand**

Seal Method: **Grout**

Sealed By: **Advanced Drilling Systems, Inc.**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Advanced Drilling Systems**

904 W. Tiwell
Houston, TX 77091

Driller Name: **M. Moya** License Number: **4990**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	2	**Miscellaneous gravel and shell, silty clay fill, dry**
2	7	**Reddish brown to dark reddish gray at 5 stiff to soft, dry to damp, silty clay 7-15: Reddish brown, soft, damp, silty clay with iron & manganese staining**
15	20	**Gray mottled with yellow crumbly , moist to wet silty clay, calcareous nodules**
20	25	**Strong brown mottled with pale green stiff, moist, silty clay, calcareous nodules and manganese staining**
25	35	**Strong brown, soft, saturated, silty fine to silty sand, calcareous veins at 30**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	New	PVC Casing	0-20 sch-40
2	New	PVC Slotted	20-35 0.01

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STATE OF TEXAS WELL REPORT for Tracking #227761

Owner:	**Bank of Texas, Special Assete Group**	Owner Well #:	**MW-3**
Address:	**8255 Walnut Hill Lane Dallas, TX 75231**	Grid #:	**81-05-6**
Well Location:	**930 East Floodgate Road, Freeport, TX 77541**	Latitude:	**28° 56' 39" N**
		Longitude:	**095° 22' 44" W**
Well County:	**Brazoria**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **7/20/2010** Drilling End Date: **7/20/2010**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.75**	**0**	**35**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**18**	**35**	**Gravel**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**16**	**4, Portland**
	16	**18**	**1, Bentonite**
	18	**35**	**10, Sand**

Seal Method: **Grout**

Sealed By: **Advanced Drilling Systems, Inc.**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Advanced Drilling Systems**
904 W. Tiwell
Houston, TX 77091

Driller Name: **M. Moya**

License Number: **4990**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	2	**Sandy gravel and shell fragment fill, dry**
2	5	**Dark reddish brown stiff , dry, silty clay 7-10: Black to brown, stiff, damp, silty clay**
10	15	**Dark brown, stiff, damp, silty clay**
15	25	**Dark gray mottled with brown yellow soft, wet silty clay**
- 22	25	**Becoms a sandy silty clay**
25	27	**Greenish gray mottled with yellowish brown, soft, wet, silty clay with calcareous noddle**
27	30	**Strong brown, soft, saturated, silty fine sand, wet at 28 bgs.**
30	35	**Storng brown mottled with light greenish gray saturated, silty sand with 0.5 hard dry silty clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	New	PVC Casing	0-20 sch-40
2	New	PVC Slotted	20-35 0.01

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Austin, TX 78711
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STATE OF TEXAS WELL REPORT for Tracking #227762

Owner:	**Bank of Texas, Special Assete Group**	Owner Well #:	**MW-4**
Address:	**8255 Walnut Hill Lane Dallas, TX 75231**	Grid #:	**81-05-6**
Well Location:	**930 East Floodgate Road, Freeport, TX 77541**	Latitude:	**28° 56' 38" N**
		Longitude:	**095° 22' 45" W**
Well County:	**Brazoria**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **7/20/2010** Drilling End Date: **7/20/2010**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.75**	**0**	**35**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**18**	**35**	**Gravel**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**16**	**4, Portland**
	16	**18**	**1, Bentonite**
	18	**35**	**10, Sand**

Seal Method: **Grout**

Sealed By: **Advanced Drilling Systems, Inc.**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Advanced Drilling Systems**

904 W. Tiwell
Houston, TX 77091

Driller Name: **M. Moya**

License Number: **4990**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	2	Sandy gravel and shell fragment fill, dry
2	5	Dark reddish gray, soft crumbly , dry, silty clay
5	7	Greenish brown to very dark gray at 6, soft crumbly, damp, silty clay
7	16	Brown, soft, damp to moist, silty clay calcareous nodules
16	22	Light gray mottled with reddish yellow at 17, soft, crumbly, moist silty to slightly sandy at 20
22	27	Gray mottled with reddish yellow hard to soft, damp to wet, sandy silty clay to sand at 25, calcareous noddle
27	30	Yellowish red, soft, saturated sand to silty sand at 30 bgs, calcareous nodules
30	34.5	Light greenish gray and yellowish red soft saturated, silty sand, calcareous nodules
34.5	35	Yellowish red, soft, saturated, sandy silt

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	New	PVC Casing	0-20 sch-40
2	New	PVC Slotted	20-35 0.01

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Austin, TX 78711
(512) 334-5540

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 81-06-406

groundwater

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	8106406
County	Brazoria
River Basin	Brazos
Groundwater Management Area	14
Regional Water Planning Area	H - Region H
Groundwater Conservation District	Brazoria County GCD
Latitude (decimal degrees)	28.948889
Latitude (degrees minutes seconds)	28° 56' 56" N
Longitude (decimal degrees)	-95.364445
Longitude (degrees minutes seconds)	095° 21' 52" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	112CHCTU - Chicot Aquifer, Upper
Aquifer	Gulf Coast
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	5
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	249
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	0/0/1941
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Screened

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	USGS Current Site Visit
Water Quality Available	No
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	City of Freeport Well #6
Driller	Layne Texas Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	285654095215101
Texas Commission on Environmental Quality Source Id	G0200005A
Groundwater Conservation District Well Number	
Owner Well Number	6
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	3/26/1992
Last Update Date	12/15/2009

Remarks Owners well #6. TCEQ ID #0200005A. Reported yield 420 GPM in 1941.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
14	Blank	Steel			214	234

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

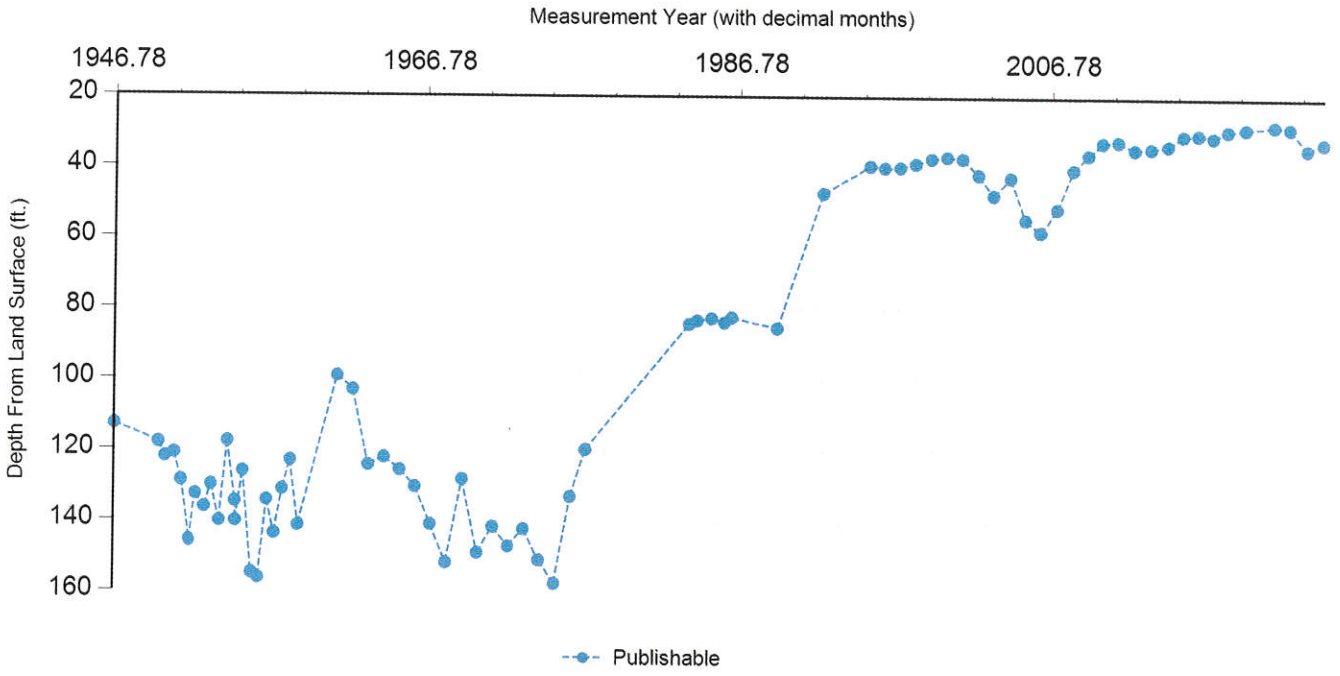
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/26/1946		112.9		-107.9	1	U.S. Geological Survey	Steel Tape		
P	8/22/1949		118.01	5.11	-113.01	1	U.S. Geological Survey	Steel Tape		
P	1/18/1950		122.1	4.09	-117.1	1	U.S. Geological Survey	Steel Tape		
P	8/22/1950		121.03	(1.07)	-116.03	1	U.S. Geological Survey	Steel Tape		
P	1/25/1951		128.73	7.70	-123.73	1	U.S. Geological Survey	Steel Tape		
P	8/10/1951		145.5	16.77	-140.5	1	U.S. Geological Survey	Steel Tape		
P	8/21/1951		146	0.50	-141	1	U.S. Geological Survey	Steel Tape		
P	1/8/1952		132.65	(13.35)	-127.65	1	U.S. Geological Survey	Steel Tape		
P	8/11/1952		136.27	3.62	-131.27	1	U.S. Geological Survey	Steel Tape		
P	1/12/1953		129.95	(6.32)	-124.95	1	U.S. Geological Survey	Steel Tape		
P	7/27/1953		140.14	10.19	-135.14	1	U.S. Geological Survey	Steel Tape		
P	1/27/1954		117.66	(22.48)	-112.66	1	U.S. Geological Survey	Steel Tape		
P	7/28/1954		134.6	16.94	-129.6	1	U.S. Geological Survey	Steel Tape		
P	8/9/1954		140.15	5.55	-135.15	1	U.S. Geological Survey	Steel Tape		
P	1/26/1955		126.09	(14.06)	-121.09	1	U.S. Geological Survey	Steel Tape		
P	8/23/1955		154.78	28.69	-149.78	1	U.S. Geological Survey	Steel Tape		
P	1/26/1956		156.18	1.40	-151.18	1	U.S. Geological Survey	Steel Tape		
P	8/8/1956		134.19	(21.99)	-129.19	1	U.S. Geological Survey	Steel Tape		
P	1/29/1957		143.6	9.41	-138.6	1	U.S. Geological Survey	Steel Tape		
P	8/6/1957		131.12	(12.48)	-126.12	1	U.S. Geological Survey	Steel Tape		
P	2/4/1958		122.92	(8.20)	-117.92	1	U.S. Geological Survey	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	8/12/1958		141.33	18.41	-136.33	1	U.S. Geological Survey	Steel Tape		
P	1/27/1961		99.08	(42.25)	-94.08	1	U.S. Geological Survey	Steel Tape		
P	1/25/1962		102.98	3.90	-97.98	1	U.S. Geological Survey	Steel Tape		
P	1/23/1963		124.2	21.22	-119.2	1	U.S. Geological Survey	Steel Tape		
P	1/28/1964		122.04	(2.16)	-117.04	1	U.S. Geological Survey	Steel Tape		
P	1/26/1965		125.59	3.55	-120.59	1	U.S. Geological Survey	Steel Tape		
P	1/25/1966		130.3	4.71	-125.3	1	U.S. Geological Survey	Steel Tape		
P	1/23/1967		140.9	10.60	-135.9	1	U.S. Geological Survey	Steel Tape		
P	1/23/1968		151.8	10.90	-146.8	1	U.S. Geological Survey	Steel Tape		
P	1/31/1969		128.2	(23.60)	-123.2	1	U.S. Geological Survey	Steel Tape		
P	1/27/1970		149.01	20.81	-144.01	1	U.S. Geological Survey	Steel Tape		
P	1/20/1971		141.58	(7.43)	-136.58	1	U.S. Geological Survey	Steel Tape		
P	1/25/1972		147.1	5.52	-142.1	1	U.S. Geological Survey	Steel Tape		
P	1/17/1973		142.15	(4.95)	-137.15	1	U.S. Geological Survey	Steel Tape		
P	1/17/1974		150.97	8.82	-145.97	1	U.S. Geological Survey	Steel Tape		
P	1/21/1975		157.46	6.49	-152.46	1	U.S. Geological Survey	Steel Tape		
P	1/19/1976		132.95	(24.51)	-127.95	1	U.S. Geological Survey	Steel Tape		
P	1/10/1977		119.69	(13.26)	-114.69	1	U.S. Geological Survey	Steel Tape		
P	8/11/1983		84.14	(35.55)	-79.14	1	U.S. Geological Survey	Unknown		
P	2/14/1984		83.16	(0.98)	-78.16	1	U.S. Geological Survey	Unknown		
P	1/15/1985		82.52	(0.64)	-77.52	1	U.S. Geological Survey	Steel Tape		
P	11/19/1985		83.7	1.18	-78.7	1	U.S. Geological Survey	Steel Tape		
P	4/29/1986		82.25	(1.45)	-77.25	1	U.S. Geological Survey	Steel Tape		
P	3/30/1989		85.22	2.97	-80.22	1	U.S. Geological Survey	Steel Tape		
P	2/12/1992		47.25	(37.97)	-42.25	1	U.S. Geological Survey	Steel Tape		
P	2/2/1995		39.5	(7.75)	-34.5	1	U.S. Geological Survey	Steel Tape		
P	1/10/1996		40.01	0.51	-35.01	1	U.S. Geological Survey	Steel Tape		
P	1/8/1997		39.86	(0.15)	-34.86	1	U.S. Geological Survey	Steel Tape		
P	1/6/1998		38.81	(1.05)	-33.81	1	U.S. Geological Survey	Steel Tape		
P	1/13/1999		37.36	(1.45)	-32.36	1	U.S. Geological Survey	Steel Tape		
P	1/12/2000		36.87	(0.49)	-31.87	1	U.S. Geological Survey	Steel Tape		
P	1/10/2001		37.28	0.41	-32.28	1	U.S. Geological Survey	Steel Tape		
P	1/16/2002		41.88	4.60	-36.88	1	U.S. Geological Survey	Steel Tape		
P	1/10/2003		47.64	5.76	-42.64	1	U.S. Geological Survey	Steel Tape		
P	2/10/2004		42.67	(4.97)	-37.67	1	U.S. Geological Survey	Steel Tape		
P	1/25/2005		54.46	11.79	-49.46	1	U.S. Geological Survey	Steel Tape		
P	1/10/2006		57.87	3.41	-52.87	1	U.S. Geological Survey	Electric Line		
P	1/30/2007		51.35	(6.52)	-46.35	1	U.S. Geological Survey	Steel Tape		
P	1/31/2008		40.39	(10.96)	-35.39	1	U.S. Geological Survey	Steel Tape		
P	1/14/2009		36.15	(4.24)	-31.15	1	U.S. Geological Survey	Steel Tape		
P	12/14/2009		32.7	(3.45)	-27.7	1	U.S. Geological Survey	Steel Tape		
P	12/16/2010		32.37	(0.33)	-27.37	1	U.S. Geological Survey	Steel Tape		

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 81-06-406

groundwater

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/4/2012		34.58	2.21	-29.58	1	U.S. Geological Survey	Steel Tape		
P	1/18/2013		34.25	(0.33)	-29.25	1	U.S. Geological Survey	Steel Tape		
P	2/18/2014		33.39	(0.86)	-28.39	1	U.S. Geological Survey	Steel Tape		
P	2/5/2015		30.57	(2.82)	-25.57	1	U.S. Geological Survey	Steel Tape		
P	1/21/2016	1159	30.3	(0.27)	-25.3	1	U.S. Geological Survey	Steel Tape		
P	1/4/2017	0850	31	0.70	-26	1	U.S. Geological Survey	Steel Tape		
P	12/18/2017	1345	29.17	(1.83)	-24.17	1	U.S. Geological Survey	Steel Tape		
P	2/6/2019	1110	28.5	(0.67)	-23.5	1	U.S. Geological Survey	Steel Tape		
P	12/7/2020		27.71	(0.79)	-22.71	1	U.S. Geological Survey	Steel Tape		
P	12/8/2021		28.29	0.58	-23.29	1	U.S. Geological Survey	Steel Tape		
P	1/25/2023		34.21	5.92	-29.21	1	U.S. Geological Survey	Steel Tape		
P	2/7/2024		32.5	(1.71)	-27.5	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

NOTE: INCORRECT "INTERVAL SCREENED" PUBLISHED AS 206-247. MP SHOULD READ 1.5 ABOVE LDS.

BH-81-06-406

(OLD # 308) BWE 1947

U. S. DEPT. OF THE INTER

WATER RESOURCES DIVISION

MASTER CARD

Record by: W. SANDEEN (RAY SUNDSTROM) (6-19-41) — Source of data: J.C. REED — Date: 4-10-67 (6-19-41) — Map: FREEPORT 1963 1:24,000

State: TEXAS [4 9] — County (or town): BRAZORIA [B H]

Latitude: [2 8 5 6 5 4 N] — Longitude: [0 9 5 2 1 5 1] — Sequential number: [1] GDM

Lat-long accuracy: [1] T. ___ S, R ___ W, Sec ___

Local well number: [B H 8 1 0 6 4 0 6] — Other number: WELL #6 (1231 W. 8th STREET)

Local use: [ ] — Owner or name: CITY OF FREEPORT

Owner or name: [C T Y F R E E P O R T] — Address:

Ownership: (C) County, (F) Fed Gov't, (M) City, (N) Corp or Co, (P) Private, (S) State Agency, (W) Water Dist — [M]

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Dom, (I) Irr, (M) Med, (N) Ind, (P) PS, (R) Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, (W) Recharge, (X) Desal-P S, (Y) Desal-other, (Z) Other — [P]

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Res, (O) Obs, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed — [W]

ANNUAL

DATA AVAILABLE: Well data [Y] — Freq. W/L meas.: 1941, 1946; 1959-67 [A] — Field aquifer char. [ ]

Hyd. lab. data: [ ]

Qual. water data; type: [ ]

Freq. sampling: [ ] — Pumpage inventory: yes (no); period: [ ]

Aperture cards: yes [ ]

Log data: driller's log 0-249 [D]

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD — Depth well: 249 ft [2 4 9] — Meas. / rept — accuracy [3]

Depth cased (first perf.): 214 ft [2 1 4] — Casing type: steel — Diam. 14 OD in [1 3]

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w (screen), (H) horiz. gallery, (O) open end, (P) perf., (S) screen, (T) sd. pt., (W) shored, (X) open hole, (Z) other — [G]

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd rot., (J) jetted, (P) air percussion, (R) reverse rotary, (T) trenching, (V) driven, (W) drive wash, (Z) other — [H]

Date Drilled: 1941 [9 4 1] — Pump intake setting: ___ ft [ ]

Driller: LAYNE TEXAS — name, address

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple (cent.), (M) multiple (turb.), (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (Z) other — [T] — Deep / Shallow [D]

Power (type): diesel, (elec), nat gas, gasoline, hand, LP gas, wind; H.P. 30 [V] — Trans. or meter no.

Descrip. MP: HOLE IN PUMP BASE + 1.5 ft (above) below LSD. Alt. MP 6

Alt. LSD: 5 ± [5] — Accuracy (source): Topo map [3]

Water Level: 140.90 ft above below MP; ft above (below) LSD [1 4 1] — Accuracy: steel tape [A]

Date meas: 1-23-67 [1 6 7] — Yield: 6-28-41 420 gpm [4 2 0] — Meas. / rept. [O]

Drawdown: 77 ft [7 7] — Accuracy: RPT [ ] — Pumping period: NA hrs [ ]

QUALITY OF WATER DATA: Iron ppm [ ] Sulfate ppm [ ] Chloride ppm [ ] Hard. ppm [ ]

Sp. Conduct. ___ K x 10⁶ [ ] Temp. °F [ ] Date sampled [ ]

Taste, color, etc.

(Margin notes:)

CU

-54 / 6-41

-108 / 10-46

-136 / 8-58

-141 / 1-67

BH 81-06-406

Well No. BH 81 - 06 - 406

Latitude-longitude 28 56 54 095 21 51

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD | Physiographic Province: | 0 3 | Section:

F | Drainage Basin: | 5 2 B | Subbasin:

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (O) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat | F

MAJOR AQUIFER: system, series | Q G | aquifer, formation, group | C U

Lithology: SAND | S | Origin: | Aquifer Thickness: ft

Length of well open to: 20 ft | 2 0 | Depth to top of: 214 ft | 2 1 4

MINOR AQUIFER: system, series | aquifer, formation, group

Lithology: | Origin: | Aquifer Thickness: ft

Length of well open to: ft | Depth to top of: ft

Intervals Screened: 214 - 234

Depth to consolidated rock: ft | Source of data:

Depth to basement: ft | Source of data:

Surficial material: | Infiltration characteristics:

Coefficient Trans: gpd/ft | Coefficient Storage:

Coefficient Perm: gpd/ft^2; Spec cap: gpm/ft; Number of geologic cards:

Well No. BH 81-06-406

GPO 887-700

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 81-05-606

groundwater

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	8105606
County	Brazoria
River Basin	Brazos
Groundwater Management Area	14
Regional Water Planning Area	H - Region H
Groundwater Conservation District	Brazoria County GCD
Latitude (decimal degrees)	28.950278
Latitude (degrees minutes seconds)	28° 57' 01" N
Longitude (decimal degrees)	-95.378055
Longitude (degrees minutes seconds)	095° 22' 41" W
Coordinate Source	+/- 1 Second
Aquifer Code	112CHCTU - Chicot Aquifer, Upper
Aquifer	Gulf Coast
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	15
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	301
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	11/24/1953
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	

Well Type	Observation
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Dow Chemical Co. obs #4
Driller	Layne Texas
Other Data Available	Electric Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	12/10/1997
Last Update Date	12/10/1997

Remarks well #4. Not completed.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 81-05-606

groundwater

Water Quality Analysis - No Data Available

WRD Rep. (DW)
April 1966

Well No. 81/05-606

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES DIVISION

NOT COMPLETED DUE TO INSUFFICIENT SAND.

MASTER CARD

Record by W. SANDEEN Source of data DOW RECORDS Date 7-24-67 Map FREEPORT, 1963 1:24,000

State TEXAS 42 County (or town) BRAZORIA BH

Latitude: 28 57 00 N Longitude: 095 22 40 Sequential number: 1

Lat-long accuracy: 1 T. S, R W, Sec

Local well number: BH81 05 606 Other number: OBS #4 B & H

Local use: Owner of name: DOW CHEMICAL COMPANY

Owner or name: DOW CHEM. CO. Address: FREEPORT TEXAS

Ownership: (C) County, (F) Fed Gov't, (M) City, (W) Corp or Co, (P) Private, (S) State Agency, (N) Water Dist P

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Dom, (I) Irr, (M) Mfd, (N) Ind, (P) P S, (R) Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, (W) Recharge, (X) Dasal-P S, (Y) Dasal-other, (Z) Other U

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Exc, (O) Obs, (F) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed Z

DATA AVAILABLE: Well data Freq. W/L meas.: N Field aquifer char.

Hyd. lab. data:

Qual. water data; type: W

Freq. sampling: Pumpage inventory: yes (no) period:

Aperture cards: yes

Log date: E LOG INCLUDE TO AVOID CONFUSION. E D

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 301 ft 3011 Meas. (rept) accuracy 6

Depth cased: (first perf.) NA ft Casing type: NA ; Diam. in

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (O) open end, (P) perf., screen, sd. pt., (S) shored, (T) open hole, (W) other NONE Z

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd jetted, (J) air percussion, (P) reverse rotary, (R) trenching, (T) driven, (V) drive wash, (W) other

Date Drilled: 11-24-53 9 5 3 Pump intake setting: ft

Driller: LAYNE TEXAS (name, address)

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple (cent.), (M) multiple (turb.), (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (W) other N Deep Shallow

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. Trans. or water no.

Descrip. MP ft above below LSD. Alt. MP

Alt. LSD: 15 15 Accuracy: (source) 5' TOPO T

Water Level ft above below MP; Ft above below LSD Accuracy:

Date meas: Yield: gpm Method determined

Drawdown: ft Accuracy: Pumping period hrs

QUALITY OF WATER DATA: Iron ppm Sulfate ppm Chloride ppm Hard. ppm

Sp. Conduct K x 10^5 Temp. °F Date sampled

Taste, color, etc.

Well No.

Well No. BT-61-05-606

Latitude-longitude ___ d m s N/S d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD (1–19) | Physiographic Province: ___ | 03 (20–21) | Section: ___

E (22) | Drainage Basin: ___ | 5 J P (23–25) | Subbasin: ___ | (26)

Topo of well site: (D) depression, (C) stream channel, (E) dunes, **(F) flat** (circled), (H) hilltop, (K) sink, (L) swamp, (O) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat ___ (27) F

MAJOR AQUIFER: ___ system, ___ series | 0 G (28–29) | ___ aquifer, formation, group | C U (30–31)

Lithology: ___ (32–33) | Origin: ___ (34) | Aquifer Thickness: ___ ft

(35–37) | Length of well open to: ___ ft (38–40) | Depth to top of: ___ ft (41–43)

MINOR AQUIFER: ___ system, ___ series (44–45) | ___ aquifer, formation, group (46–47)

Lithology: ___ (48–49) | Origin: ___ (50) | Aquifer Thickness: ___ ft

(51–53) | Length of well open to: ___ ft (54–56) | Depth to top of: ___ ft (57–59)

Intervals Screened: — 0 — WELL ABANDONED

Depth to consolidated rock: ___ ft (60–63) | Source of data: ___ (64)

Depth to basement: ___ ft (65–68) | Source of data: ___ (69)

Surficial material: ___ (70–71) | Infiltration characteristics: ___ (72)

Coefficient Trans: ___ gpd/ft (73–75) | Coefficient Storage: ___ (76–78)

Coefficient Perm: ___ gpd/ft^2; Spec cap: ___ gpm/ft; Number of geologic cards: ___ (79)

DRILLERS LOG

Depth	Thickness	Material
0-6	6	SURFACE SOIL
6-20	14	RED CLAY
20-40	20	BLUE CLAY
40-50	10	SAND
50-144	94	SOFT BLUE CLAY
144-156	12	SAND
156-185	29	BLUE CLAY
185-197	12	SAND & CLAY STREAKS
197-255	58	CLAY
255-271	16	SAND
271-301	30	CLAY

Well No.

GPO 857-700

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 81-05-602

groundwater

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	8105602
County	Brazoria
River Basin	Brazos
Groundwater Management Area	14
Regional Water Planning Area	H - Region H
Groundwater Conservation District	Brazoria County GCD
Latitude (decimal degrees)	28.942778
Latitude (degrees minutes seconds)	28° 56' 34" N
Longitude (decimal degrees)	-95.378889
Longitude (degrees minutes seconds)	095° 22' 44" W
Coordinate Source	+/- 1 Second
Aquifer Code	112CHCTU - Chicot Aquifer, Upper
Aquifer	Gulf Coast
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	14
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	246
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	12/21/1953
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Screened

Well Type	Observation
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Dow Chemichal Co. Obs. Well 13 obs
Driller	Layne Texas Co.
Other Data Available	Aquifer Test; Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	OBS 13
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	7/26/1967
Last Update Date	8/23/2010

Remarks Owner's observation well. Aquifer test results in TWDB R-163. No test data in TWDB files Water level obtained by driller on 12/18/53 was -119.5'. Not entered in GWDB since it predates well completion.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
2	Blank	Steel			0	226
2	Screen	Steel			226	236
2	Blank	Steel			236	246

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

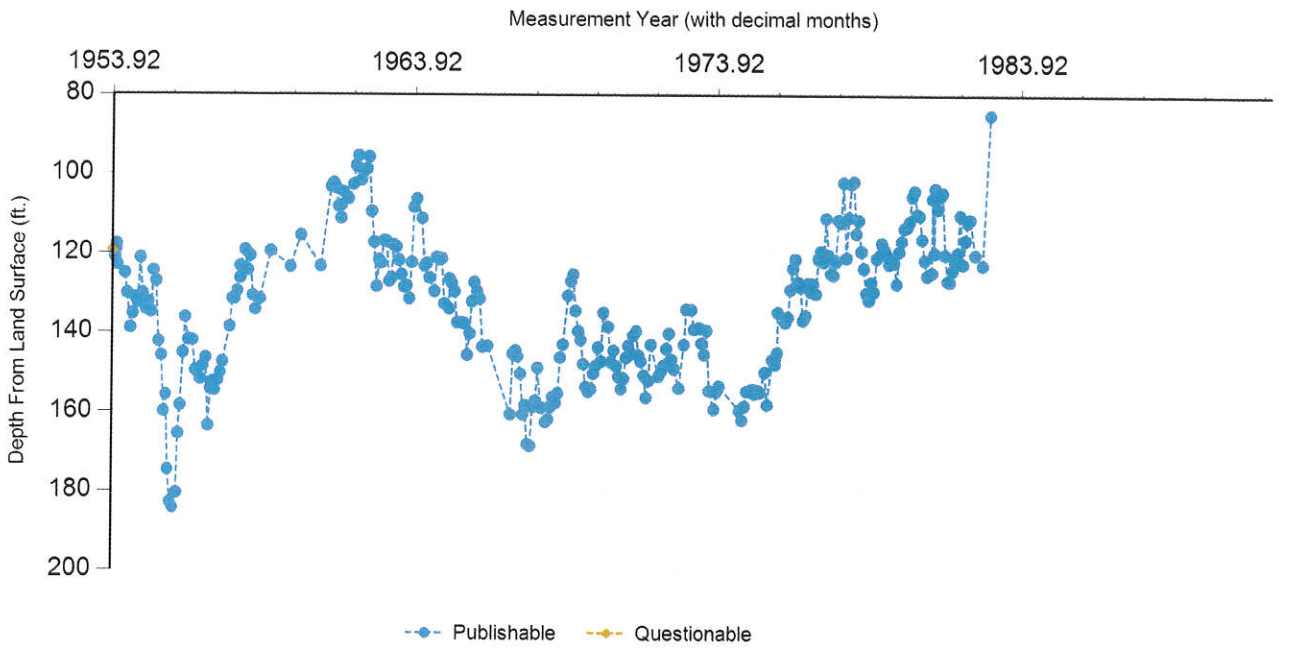
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	12/8/1953		119.5		-105.5	1	Registered Water Well Driller	Electric Line	17	
P	1/4/1954		121	1.50	-107	1	Registered Water Well Driller	Electric Line		
P	1/18/1954		118.9	(2.10)	-104.9	1	U.S. Geological Survey	Steel Tape		
P	1/25/1954		117.7	(1.20)	-103.7	1	U.S. Geological Survey	Steel Tape		
P	2/3/1954		122.9	5.20	-108.9	1	Registered Water Well Driller	Electric Line		
P	5/4/1954		125.01	2.11	-111.01	1	Registered Water Well Driller	Electric Line		
P	5/31/1954		130.1	5.09	-116.1	1	Registered Water Well Driller	Electric Line		
P	7/9/1954		138.8	8.70	-124.8	1	Registered Water Well Driller	Electric Line		
P	8/9/1954		135.24	(3.56)	-121.24	1	Registered Water Well Driller	Electric Line		
P	9/10/1954		131.2	(4.04)	-117.2	1	Registered Water Well Driller	Electric Line		
P	10/8/1954		132.4	1.20	-118.4	1	Registered Water Well Driller	Electric Line		
P	11/8/1954		121.2	(11.20)	-107.2	1	Registered Water Well Driller	Electric Line		
P	12/3/1954		130.1	8.90	-116.1	1	Registered Water Well Driller	Electric Line		
P	1/13/1955		134.2	4.10	-120.2	1	Registered Water Well Driller	Electric Line		
P	2/4/1955		132.3	(1.90)	-118.3	1	Registered Water Well Driller	Electric Line		
P	3/8/1955		134.8	2.50	-120.8	1	Registered Water Well Driller	Electric Line		
P	4/7/1955		124.4	(10.40)	-110.4	1	Registered Water Well Driller	Electric Line		
P	5/10/1955		127.1	2.70	-113.1	1	Registered Water Well Driller	Electric Line		
P	6/8/1955		142.2	15.10	-128.2	1	Registered Water Well Driller	Electric Line		
P	7/13/1955		145.8	3.60	-131.8	1	Registered Water Well Driller	Electric Line		
P	8/11/1955		159.9	14.10	-145.9	1	Registered Water Well Driller	Electric Line		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	9/9/1955		155.7	(4.20)	-141.7	1	Registered Water Well Driller	Electric Line		
P	10/4/1955		174.6	18.90	-160.6	1	Registered Water Well Driller	Electric Line		
P	11/4/1955		182.8	8.20	-168.8	1	Registered Water Well Driller	Electric Line		
P	12/8/1955		184.2	1.40	-170.2	1	Registered Water Well Driller	Electric Line		
P	1/18/1956		180.5	(3.70)	-166.5	1	Registered Water Well Driller	Electric Line		
P	2/7/1956		165.5	(15.00)	-151.5	1	Registered Water Well Driller	Electric Line		
P	3/2/1956		158.3	(7.20)	-144.3	1	Registered Water Well Driller	Electric Line		
P	4/4/1956		145.1	(13.20)	-131.1	1	Registered Water Well Driller	Electric Line		
P	5/1/1956		136.1	(9.00)	-122.1	1	Registered Water Well Driller	Electric Line		
P	6/6/1956		141.8	5.70	-127.8	1	Registered Water Well Driller	Electric Line		
P	7/30/1956		141.9	0.10	-127.9	1	Registered Water Well Driller	Electric Line		
P	9/5/1956		149.5	7.60	-135.5	1	Registered Water Well Driller	Electric Line		
P	11/6/1956		151.7	2.20	-137.7	1	Registered Water Well Driller	Electric Line		
P	12/5/1956		148.4	(3.30)	-134.4	1	Registered Water Well Driller	Electric Line		
P	1/4/1957		146.3	(2.10)	-132.3	1	Registered Water Well Driller	Electric Line		
P	2/4/1957		163.5	17.20	-149.5	1	Registered Water Well Driller	Electric Line		
P	3/4/1957		154.2	(9.30)	-140.2	1	Registered Water Well Driller	Electric Line		
P	4/3/1957		152.3	(1.90)	-138.3	1	Registered Water Well Driller	Electric Line		
P	4/26/1957		154.5	2.20	-140.5	1	Registered Water Well Driller	Electric Line		
P	6/4/1957		152	(2.50)	-138	1	Registered Water Well Driller	Electric Line		
P	7/2/1957		150	(2.00)	-136	1	Registered Water Well Driller	Electric Line		
P	8/1/1957		147.3	(2.70)	-133.3	1	Registered Water Well Driller	Electric Line		
P	9/0/1957		138.4	(8.90)	-124.4	1	Registered Water Well Driller	Electric Line		
P	10/0/1957		131.4	(7.00)	-117.4	1	Registered Water Well Driller	Electric Line		
P	11/0/1957		131.4	0.00	-117.4	1	Registered Water Well Driller	Electric Line		
P	12/0/1957		129.5	(1.90)	-115.5	1	Registered Water Well Driller	Electric Line		
P	1/0/1958		123.2	(6.30)	-109.2	1	Registered Water Well Driller	Electric Line		
P	2/28/1958		126.2	3.00	-112.2	1	Registered Water Well Driller	Electric Line		
P	3/0/1958		119.1	(7.10)	-105.1	1	Registered Water Well Driller	Electric Line		
P	4/0/1958		124.2	5.10	-110.2	1	Registered Water Well Driller	Electric Line		
P	5/0/1958		120.6	(3.60)	-106.6	1	Registered Water Well Driller	Electric Line		
P	6/0/1958		130.6	10.00	-116.6	1	Registered Water Well Driller	Electric Line		
P	7/0/1958		134.1	3.50	-120.1	1	Registered Water Well Driller	Electric Line		
P	9/0/1958		131.4	(2.70)	-117.4	1	Registered Water Well Driller	Electric Line		
P	1/0/1959		119.4	(12.00)	-105.4	1	Registered Water Well Driller	Electric Line		
P	9/0/1959		123.4	4.00	-109.4	1	Registered Water Well Driller	Electric Line		
P	1/0/1960		115.5	(7.90)	-101.5	1	Registered Water Well Driller	Electric Line		
P	9/0/1960		123.2	7.70	-109.2	1	Registered Water Well Driller	Electric Line		
P	1/0/1961		103.3	(19.90)	-89.3	1	Registered Water Well Driller	Electric Line		
P	2/0/1961		102.3	(1.00)	-88.3	1	Registered Water Well Driller	Electric Line		
P	3/0/1961		103.6	1.30	-89.6	1	Registered Water Well Driller	Electric Line		
P	4/0/1961		108.2	4.60	-94.2	1	Registered Water Well Driller	Electric Line		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	5/0/1961		111.2	3.00	-97.2	1	Registered Water Well Driller	Electric Line		
P	6/30/1961		108	(3.20)	-94	1	Registered Water Well Driller	Electric Line		
P	7/27/1961		104.6	(3.40)	-90.6	1	Registered Water Well Driller	Electric Line		
P	8/0/1961		106.3	1.70	-92.3	1	Registered Water Well Driller	Electric Line		
P	10/0/1961		102.7	(3.60)	-88.7	1	Registered Water Well Driller	Electric Line		
P	11/0/1961		98	(4.70)	-84	1	Registered Water Well Driller	Electric Line		
P	12/0/1961		95.5	(2.50)	-81.5	1	Registered Water Well Driller	Electric Line		
P	1/0/1962		101.6	6.10	-87.6	1	Registered Water Well Driller	Electric Line		
P	2/0/1962		99.4	(2.20)	-85.4	1	Registered Water Well Driller	Electric Line		
P	3/0/1962		98.8	(0.60)	-84.8	1	Registered Water Well Driller	Electric Line		
P	4/0/1962		95.8	(3.00)	-81.8	1	Registered Water Well Driller	Electric Line		
P	5/0/1962		109.5	13.70	-95.5	1	Registered Water Well Driller	Electric Line		
P	6/0/1962		117.2	7.70	-103.2	1	Registered Water Well Driller	Electric Line		
P	7/0/1962		128.3	11.10	-114.3	1	Registered Water Well Driller	Electric Line		
P	8/29/1962		125.6	(2.70)	-111.6	1	Registered Water Well Driller	Electric Line		
P	9/27/1962		121.6	(4.00)	-107.6	1	Registered Water Well Driller	Electric Line		
P	10/25/1962		122.4	0.80	-108.4	1	Registered Water Well Driller	Electric Line		
P	11/27/1962		116.8	(5.60)	-102.8	1	Registered Water Well Driller	Electric Line		
P	12/31/1962		116.9	0.10	-102.9	1	Registered Water Well Driller	Electric Line		
P	1/28/1963		127	10.10	-113	1	Registered Water Well Driller	Electric Line		
P	2/26/1963		126.1	(0.90)	-112.1	1	Registered Water Well Driller	Electric Line		
P	3/25/1963		117.9	(8.20)	-103.9	1	Registered Water Well Driller	Electric Line		
P	4/25/1963		118.3	0.40	-104.3	1	Registered Water Well Driller	Electric Line		
P	5/26/1963		121.7	3.40	-107.7	1	Registered Water Well Driller	Electric Line		
P	6/27/1963		125.3	3.60	-111.3	1	Registered Water Well Driller	Electric Line		
P	7/29/1963		128.4	3.10	-114.4	1	Registered Water Well Driller	Electric Line		
P	8/29/1963		128	(0.40)	-114	1	Registered Water Well Driller	Electric Line		
P	9/30/1963		131.3	3.30	-117.3	1	Registered Water Well Driller	Electric Line		
P	10/30/1963		122.2	(9.10)	-108.2	1	Registered Water Well Driller	Electric Line		
P	11/27/1963		108.4	(13.80)	-94.4	1	Registered Water Well Driller	Electric Line		
P	12/31/1963		106.3	(2.10)	-92.3	1	Registered Water Well Driller	Electric Line		
P	1/0/1964		111.2	4.90	-97.2	1	Registered Water Well Driller	Electric Line		
P	2/0/1964		123.1	11.90	-109.1	1	Registered Water Well Driller	Electric Line		
P	3/0/1964		122.4	(0.70)	-108.4	1	Registered Water Well Driller	Electric Line		
P	4/0/1964		126.1	3.70	-112.1	1	Registered Water Well Driller	Electric Line		
P	6/0/1964		129.5	3.40	-115.5	1	Registered Water Well Driller	Electric Line		
P	7/0/1964		120.9	(8.60)	-106.9	1	Registered Water Well Driller	Electric Line		
P	8/0/1964		121.5	0.60	-107.5	1	Registered Water Well Driller	Electric Line		
P	9/0/1964		121.3	(0.20)	-107.3	1	Registered Water Well Driller	Electric Line		
P	10/0/1964		132.6	11.30	-118.6	1	Registered Water Well Driller	Electric Line		
P	12/0/1964		133.8	1.20	-119.8	1	Registered Water Well Driller	Electric Line		
P	1/29/1965		126.3	(7.50)	-112.3	1	Registered Water Well Driller	Electric Line		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	2/26/1965		127.4	1.10	-113.4	1	Registered Water Well Driller	Electric Line		
P	3/29/1965		129.5	2.10	-115.5	1	Registered Water Well Driller	Electric Line		
P	4/29/1965		137.3	7.80	-123.3	1	Registered Water Well Driller	Electric Line		
P	6/29/1965		137.4	0.10	-123.4	1	Registered Water Well Driller	Electric Line		
P	7/29/1965		137.6	0.20	-123.6	1	Registered Water Well Driller	Electric Line		
P	8/31/1965		145.5	7.90	-131.5	1	Registered Water Well Driller	Electric Line		
P	9/30/1965		140.1	(5.40)	-126.1	1	Registered Water Well Driller	Electric Line		
P	10/25/1965		132	(8.10)	-118	1	Registered Water Well Driller	Electric Line		
P	11/26/1965		127.2	(4.80)	-113.2	1	Registered Water Well Driller	Electric Line		
P	12/29/1965		129.5	2.30	-115.5	1	Registered Water Well Driller	Electric Line		
P	1/26/1966		131.3	1.80	-117.3	1	Registered Water Well Driller	Electric Line		
P	2/28/1966		143.4	12.10	-129.4	1	Registered Water Well Driller	Electric Line		
P	4/28/1966		143.2	(0.20)	-129.2	1	Registered Water Well Driller	Electric Line		
P	1/29/1967		160.5	17.30	-146.5	1	Registered Water Well Driller	Electric Line		
P	2/28/1967		145.2	(15.30)	-131.2	1	Private Firm or Industry	Electric Line		
P	3/30/1967		144.3	(0.90)	-130.3	1	Private Firm or Industry	Electric Line		
P	4/27/1967		145.8	1.50	-131.8	1	Private Firm or Industry	Electric Line		
P	5/31/1967		150.2	4.40	-136.2	1	Private Firm or Industry	Electric Line		
P	6/29/1967		160.5	10.30	-146.5	1	Private Firm or Industry	Electric Line		
P	7/24/1967		158.1	(2.40)	-144.1	1	Private Firm or Industry	Electric Line		
P	8/24/1967		168	9.90	-154	1	Private Firm or Industry	Electric Line		
P	9/28/1967		168.4	0.40	-154.4	1	Private Firm or Industry	Electric Line		
P	10/31/1967		158.5	(9.90)	-144.5	1	Private Firm or Industry	Electric Line		
P	11/30/1967		157.1	(1.40)	-143.1	1	Private Firm or Industry	Electric Line		
P	12/28/1967		148.7	(8.40)	-134.7	1	Private Firm or Industry	Electric Line		
P	1/30/1968		158.7	10.00	-144.7	1	Private Firm or Industry	Electric Line		
P	3/28/1968		162.4	3.70	-148.4	1	Private Firm or Industry	Electric Line		
P	4/29/1968		161.7	(0.70)	-147.7	1	Private Firm or Industry	Electric Line		
P	5/28/1968		158.5	(3.20)	-144.5	1	Private Firm or Industry	Electric Line		
P	6/26/1968		156	(2.50)	-142	1	Private Firm or Industry	Electric Line		
P	7/30/1968		157.5	1.50	-143.5	1	Private Firm or Industry	Electric Line		
P	8/27/1968		155.1	(2.40)	-141.1	1	Private Firm or Industry	Electric Line		
P	9/25/1968		146.1	(9.00)	-132.1	1	Private Firm or Industry	Electric Line		
P	10/28/1968		142.8	(3.30)	-128.8	1	Private Firm or Industry	Electric Line		
P	12/31/1968		130.5	(12.30)	-116.5	1	Private Firm or Industry	Electric Line		
P	1/30/1969		126.9	(3.60)	-112.9	1	Private Firm or Industry	Electric Line		
P	2/27/1969		125.2	(1.70)	-111.2	1	Private Firm or Industry	Electric Line		
P	3/26/1969		134.3	9.10	-120.3	1	Private Firm or Industry	Electric Line		
P	4/28/1969		139.4	5.10	-125.4	1	Private Firm or Industry	Electric Line		
P	5/28/1969		141.6	2.20	-127.6	1	Private Firm or Industry	Electric Line		
P	6/27/1969		147.7	6.10	-133.7	1	Private Firm or Industry	Electric Line		
P	7/28/1969		153.5	5.80	-139.5	1	Private Firm or Industry	Electric Line		

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 81-05-602

groundwater

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	8/28/1969		154.7	1.20	-140.7	1	Private Firm or Industry	Electric Line		
P	9/30/1969		154	(0.70)	-140	1	Private Firm or Industry	Electric Line		
P	10/30/1969		150.1	(3.90)	-136.1	1	Private Firm or Industry	Electric Line		
P	11/25/1969		148.2	(1.90)	-134.2	1	Private Firm or Industry	Electric Line		
P	12/26/1969		143.5	(4.70)	-129.5	1	Private Firm or Industry	Electric Line		
P	1/28/1970		147.1	3.60	-133.1	1	Private Firm or Industry	Electric Line		
P	2/25/1970		134.8	(12.30)	-120.8	1	Private Firm or Industry	Electric Line		
P	4/24/1970		138.3	3.50	-124.3	1	Private Firm or Industry	Electric Line		
P	5/28/1970		147.2	8.90	-133.2	1	Private Firm or Industry	Electric Line		
P	6/30/1970		144.3	(2.90)	-130.3	1	Private Firm or Industry	Electric Line		
P	7/31/1970		148.2	3.90	-134.2	1	Private Firm or Industry	Electric Line		
P	8/27/1970		150.9	2.70	-136.9	1	Private Firm or Industry	Electric Line		
P	9/29/1970		154	3.10	-140	1	Private Firm or Industry	Electric Line		
P	10/30/1970		151.4	(2.60)	-137.4	1	Private Firm or Industry	Electric Line		
P	12/2/1970		146.1	(5.30)	-132.1	1	Private Firm or Industry	Electric Line		
P	12/29/1970		143.1	(3.00)	-129.1	1	Private Firm or Industry	Electric Line		
P	1/29/1971		145.1	2.00	-131.1	1	Private Firm or Industry	Electric Line		
P	2/24/1971		140.5	(4.60)	-126.5	1	Private Firm or Industry	Electric Line		
P	3/29/1971		139.4	(1.10)	-125.4	1	Private Firm or Industry	Electric Line		
P	4/28/1971		145.5	6.10	-131.5	1	Private Firm or Industry	Electric Line		
P	5/25/1971		147	1.50	-133	1	Private Firm or Industry	Electric Line		
P	6/30/1971		150.6	3.60	-136.6	1	Private Firm or Industry	Electric Line		
P	7/30/1971		156.2	5.60	-142.2	1	Private Firm or Industry	Electric Line		
P	8/30/1971		151.9	(4.30)	-137.9	1	Private Firm or Industry	Electric Line		
P	9/27/1971		142.8	(9.10)	-128.8	1	Private Firm or Industry	Electric Line		
P	11/0/1971		150.8	8.00	-136.8	1	Private Firm or Industry	Electric Line		
P	12/0/1971		149.6	(1.20)	-135.6	1	Private Firm or Industry	Electric Line		
P	1/0/1972		148	(1.60)	-134	1	Private Firm or Industry	Electric Line		
P	2/0/1972		143.8	(4.20)	-129.8	1	Private Firm or Industry	Electric Line		
P	3/0/1972		140	(3.80)	-126	1	Private Firm or Industry	Electric Line		
P	4/0/1972		146.5	6.50	-132.5	1	Private Firm or Industry	Electric Line		
P	5/0/1972		148.9	2.40	-134.9	1	Private Firm or Industry	Electric Line		
P	7/0/1972		153.8	4.90	-139.8	1	Private Firm or Industry	Electric Line		
P	9/0/1972		142.8	(11.00)	-128.8	1	Private Firm or Industry	Electric Line		
P	10/0/1972		133.9	(8.90)	-119.9	1	Private Firm or Industry	Electric Line		
P	12/0/1972		134	0.10	-120	1	Private Firm or Industry	Electric Line		
P	1/0/1973		138.9	4.90	-124.9	1	Private Firm or Industry	Electric Line		
P	3/0/1973		138.5	(0.40)	-124.5	1	Private Firm or Industry	Electric Line		
P	4/0/1973		142.4	3.90	-128.4	1	Private Firm or Industry	Electric Line		
P	5/0/1973		145.3	2.90	-131.3	1	Private Firm or Industry	Electric Line		
P	6/0/1973		139.2	(6.10)	-125.2	1	Private Firm or Industry	Electric Line		
P	7/0/1973		154.4	15.20	-140.4	1	Private Firm or Industry	Electric Line		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	9/0/1973		159.1	4.70	-145.1	1	Private Firm or Industry	Electric Line		
P	10/0/1973		154.7	(4.40)	-140.7	1	Private Firm or Industry	Electric Line		
P	11/0/1973		153.2	(1.50)	-139.2	1	Private Firm or Industry	Electric Line		
P	8/27/1974		159.3	6.10	-145.3	1	Private Firm or Industry	Electric Line		
P	9/30/1974		161.8	2.50	-147.8	1	Private Firm or Industry	Electric Line		
P	10/31/1974		158.3	(3.50)	-144.3	1	Private Firm or Industry	Electric Line		
P	11/26/1974		154.5	(3.80)	-140.5	1	Private Firm or Industry	Electric Line		
P	12/0/1974		154	(0.50)	-140	1	Private Firm or Industry	Electric Line		
P	1/0/1975		155.1	1.10	-141.1	1	Registered Water Well Driller	Electric Line		
P	2/0/1975		154.2	(0.90)	-140.2	1	Registered Water Well Driller	Electric Line		
P	3/0/1975		154.8	0.60	-140.8	1	Registered Water Well Driller	Electric Line		
P	5/0/1975		149.7	(5.10)	-135.7	1	Registered Water Well Driller	Electric Line		
P	6/0/1975		157.9	8.20	-143.9	1	Registered Water Well Driller	Electric Line		
P	8/0/1975		146.5	(11.40)	-132.5	1	Registered Water Well Driller	Electric Line		
P	9/0/1975		147.8	1.30	-133.8	1	Registered Water Well Driller	Electric Line		
P	10/0/1975		144.8	(3.00)	-130.8	1	Registered Water Well Driller	Electric Line		
P	11/2/1975		146.4	1.60	-132.4	1	Registered Water Well Driller	Electric Line		
P	12/4/1975		134.6	(11.80)	-120.6	1	Registered Water Well Driller	Electric Line		
P	1/0/1976		137.1	2.50	-123.1	1	Registered Water Well Driller	Electric Line		
P	2/0/1976		135.8	(1.30)	-121.8	1	Registered Water Well Driller	Electric Line		
P	3/0/1976		128.9	(6.90)	-114.9	1	Registered Water Well Driller	Electric Line		
P	4/0/1976		123.5	(5.40)	-109.5	1	Registered Water Well Driller	Electric Line		
P	5/0/1976		121.3	(2.20)	-107.3	1	Registered Water Well Driller	Electric Line		
P	6/0/1976		127	5.70	-113	1	Registered Water Well Driller	Electric Line		
P	7/0/1976		128.2	1.20	-114.2	1	Registered Water Well Driller	Electric Line		
P	8/0/1976		136.6	8.40	-122.6	1	Registered Water Well Driller	Electric Line		
P	9/0/1976		135.4	(1.20)	-121.4	1	Registered Water Well Driller	Electric Line		
P	10/0/1976		127.3	(8.10)	-113.3	1	Registered Water Well Driller	Electric Line		
P	11/0/1976		129.3	2.00	-115.3	1	Registered Water Well Driller	Electric Line		
P	12/0/1976		127.4	(1.90)	-113.4	1	U.S. Geological Survey	Steel Tape		
P	1/0/1977		129.9	2.50	-115.9	1	U.S. Geological Survey	Steel Tape		
P	2/0/1977		121.2	(8.70)	-107.2	1	U.S. Geological Survey	Steel Tape		
P	3/0/1977		119.2	(2.00)	-105.2	1	U.S. Geological Survey	Steel Tape		
P	4/0/1977		121.8	2.60	-107.8	1	U.S. Geological Survey	Steel Tape		
P	5/0/1977		111	(10.80)	-97	1	U.S. Geological Survey	Steel Tape		
P	6/0/1977		120.2	9.20	-106.2	1	U.S. Geological Survey	Steel Tape		
P	7/0/1977		124.8	4.60	-110.8	1	U.S. Geological Survey	Steel Tape		
P	8/0/1977		125.2	0.40	-111.2	1	U.S. Geological Survey	Steel Tape		
P	9/0/1977		121.8	(3.40)	-107.8	1	U.S. Geological Survey	Steel Tape		
P	10/0/1977		111.4	(10.40)	-97.4	1	U.S. Geological Survey	Steel Tape		
P	11/0/1977		112.1	0.70	-98.1	1	U.S. Geological Survey	Steel Tape		
P	12/0/1977		102	(10.10)	-88	1	U.S. Geological Survey	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/0/1978		120.9	18.90	-106.9	1	U.S. Geological Survey	Steel Tape		
P	2/0/1978		110.8	(10.10)	-96.8	1	U.S. Geological Survey	Steel Tape		
P	3/0/1978		102.3	(8.50)	-88.3	1	U.S. Geological Survey	Steel Tape		
P	4/0/1978		101.8	(0.50)	-87.8	1	U.S. Geological Survey	Steel Tape		
P	5/0/1978		114.8	13.00	-100.8	1	U.S. Geological Survey	Steel Tape		
P	6/0/1978		111.5	(3.30)	-97.5	1	U.S. Geological Survey	Steel Tape		
P	7/0/1978		119.2	7.70	-105.2	1	Registered Water Well Driller	Electric Line		
P	8/0/1978		123.5	4.30	-109.5	1	Registered Water Well Driller	Electric Line		
P	9/0/1978		129.7	6.20	-115.7	1	Registered Water Well Driller	Electric Line		
P	10/0/1978		131.5	1.80	-117.5	1	Registered Water Well Driller	Electric Line		
P	11/0/1978		127	(4.50)	-113	1	Registered Water Well Driller	Electric Line		
P	12/0/1978		129.4	2.40	-115.4	1	U.S. Geological Survey	Steel Tape		
P	1/0/1979		121	(8.40)	-107	1	Registered Water Well Driller	Electric Line		
P	2/0/1979		120.3	(0.70)	-106.3	1	Registered Water Well Driller	Electric Line		
P	3/0/1979		117.2	(3.10)	-103.2	1	Registered Water Well Driller	Electric Line		
P	4/0/1979		118.8	1.60	-104.8	1	Registered Water Well Driller	Electric Line		
P	5/0/1979		120.1	1.30	-106.1	1	Registered Water Well Driller	Electric Line		
P	6/0/1979		122.5	2.40	-108.5	1	Registered Water Well Driller	Electric Line		
P	7/0/1979		121.7	(0.80)	-107.7	1	Registered Water Well Driller	Electric Line		
P	8/0/1979		122	0.30	-108	1	Registered Water Well Driller	Electric Line		
P	9/0/1979		127.4	5.40	-113.4	1	Registered Water Well Driller	Electric Line		
P	10/0/1979		119.3	(8.10)	-105.3	1	Registered Water Well Driller	Electric Line		
P	11/0/1979		116.7	(2.60)	-102.7	1	Registered Water Well Driller	Electric Line		
P	12/0/1979		113.5	(3.20)	-99.5	1	Registered Water Well Driller	Electric Line		
P	1/0/1980		113.2	(0.30)	-99.2	1	Registered Water Well Driller	Electric Line		
P	2/0/1980		111.8	(1.40)	-97.8	1	Registered Water Well Driller	Electric Line		
P	3/0/1980		105.5	(6.30)	-91.5	1	Registered Water Well Driller	Electric Line		
P	4/0/1980		104.1	(1.40)	-90.1	1	Registered Water Well Driller	Electric Line		
P	5/0/1980		110	5.90	-96	1	Registered Water Well Driller	Electric Line		
P	6/0/1980		110.3	0.30	-96.3	1	Registered Water Well Driller	Electric Line		
P	7/0/1980		116.2	5.90	-102.2	1	Registered Water Well Driller	Electric Line		
P	8/0/1980		121.5	5.30	-107.5	1	Registered Water Well Driller	Electric Line		
P	9/0/1980		125.4	3.90	-111.4	1	Registered Water Well Driller	Electric Line		
P	10/0/1980		125	(0.40)	-111	1	Registered Water Well Driller	Electric Line		
P	11/0/1980		124.6	(0.40)	-110.6	1	Registered Water Well Driller	Electric Line		
P	12/0/1980		119.7	(4.90)	-105.7	1	Registered Water Well Driller	Electric Line		
P	1/1/1981		106	(13.70)	-92	1	U.S. Geological Survey	Unknown		
P	2/1/1981		103.5	(2.50)	-89.5	1	U.S. Geological Survey	Unknown		
P	3/1/1981		108.7	5.20	-94.7	1	U.S. Geological Survey	Unknown		
P	4/1/1981		105.5	(3.20)	-91.5	1	U.S. Geological Survey	Unknown		
P	5/1/1981		104.6	(0.90)	-90.6	1	U.S. Geological Survey	Unknown		
P	6/1/1981		120.1	15.50	-106.1	1	U.S. Geological Survey	Unknown		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	7/1/1981		126.7	6.60	-112.7	1	U.S. Geological Survey	Unknown		
P	8/1/1981		126.9	0.20	-112.9	1	U.S. Geological Survey	Unknown		
P	9/1/1981		124.1	(2.80)	-110.1	1	U.S. Geological Survey	Unknown		
P	10/1/1981		121.9	(2.20)	-107.9	1	U.S. Geological Survey	Unknown		
P	11/1/1981		119.7	(2.20)	-105.7	1	U.S. Geological Survey	Unknown		
P	12/1/1981		110.2	(9.50)	-96.2	1	U.S. Geological Survey	Unknown		
P	1/1/1982		122.5	12.30	-108.5	1	U.S. Geological Survey	Unknown		
P	2/1/1982		116.5	(6.00)	-102.5	1	U.S. Geological Survey	Unknown		
P	3/1/1982		112	(4.50)	-98	1	U.S. Geological Survey	Unknown		
P	4/1/1982		111.3	(0.70)	-97.3	1	U.S. Geological Survey	Unknown		
P	6/1/1982		120.2	8.90	-106.2	1	U.S. Geological Survey	Unknown		
P	9/1/1982		122.8	2.60	-108.8	1	U.S. Geological Survey	Unknown		
P	12/1/1982		85.1	(37.70)	-71.1	1	U.S. Geological Survey	Unknown		
X	0/0/1992					1	U.S. Geological Survey		35	

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable
X	No Measurement

Remark ID	Remark Description
17	Measurement before well completion
35	Well removed from Water Level Program (no reason stated - outside source)

Water Quality Analysis

Sample Date: 12/0/1953 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Groundwater Conservation District (general)

Sampled Aquifer: Chicot Aquifer, Upper

Analyzed Lab: Misc. Industrial Lab **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		35.83	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		486.3	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		506	mg/L	
00910	CALCIUM (MG/L)		26	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		43	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		285	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		155	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	50	ug/L	
00920	MAGNESIUM (MG/L)		22	mg/L	
00400	PH (STANDARD UNITS), FIELD		8.1	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		6.62		
00955	SILICA, DISSOLVED (MG/L AS SI02)		16	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		11.76		
00932	SODIUM, CALCULATED, PERCENT		82	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)	calculated	337	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		1	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		978	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

WRD Exp. (GW)
April 1966

Well No. BH 81-05-602

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR — GEOLOGICAL SURVEY — WATER RESOURCES DIVISION

MASTER CARD

Record by W. SANDEEN Source of data Dow RECORDS Date 7-26-67 Map FREEPORT, 1963

State TEXAS 48 County (or town) BRAZORIA BH

Latitude: 28 56 33 N Longitude: 095 21 13 Sequential number: 1

Lat-long accuracy: 4 (N, E) T. ___ S, R ___ W, Sec ___

Local well number: BH81056027 Other number: BH DBS# 13

Local use: ___ Owner or name: DOW CHEMICAL COMPANY

Owner or name: DOW CHEM CO Address: FREEPORT, TEXAS

Ownership: (C) County, (F) Fed Gov't, (M) City, (N) Corp or Co, (P) Private, (S) Agency, (W) Water Dist ___ N

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Dom, (I) Irr, (M) Ind, (N) P S, (R) Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, (W) Recharge, (X) Desal-P S, (Y) Desal-other, (B) Other ___ U

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Res, (O) Obs, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdrew, (X) Waste, (B) Destroyed ___ O

DATA AVAILABLE: Well data ___ Freq. W/L meas.: APR, 1963 Field aquifer char. ___

Hyd. lab. data: ___

Qual. water data; type: ___ P

Freq. sampling: APR DEC 1953 Pumpage inventory: yes (no) period: ___

Aperture cards: ___ yes

Log data: ___ D E

142
14
-128
CU 1-56

WELL-DESCRIPTION CARD

257, PLUGGED BACK

SAME AS ON MASTER CARD Depth well: 246 ft 246 Meas. (ppt) accuracy ___ 6

Depth cased; (first perf.) 226 ft 226 Casing type: STEEL ; Diam. 2 in 2

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (O) open end, (P) perf. (S) screen, (T) sd. pt., (W) shored, (X) open hole, (B) other ___ S

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd rot., (J) jetted, (P) air percussion, rotary, (R) reverse trenching, (T) driven, (V) drive wash, (B) other ___ H

Date Drilled: 12-21-53 953 Pump intake setting: NONE ft

Driller: LAYNE TEXAS

Lift (type): (A) air, (B) bucket, (C) cent, name (J) jet, (L) multiple, (cent.), (M) multiple, (turb.), (N) none, (P) piston, (R) rot, submerg, (S) turb, (T) other address (B) IV Deep Shallow

Power (type): diesel, elec, nat gas, gasoline, hand, LP gas, wind; H.P. NONE Trans. or meter no. ___

Descrip. MP 3.0 ft above below LSD Alt. MP ___

Alt. LSD: 14± 14 Accuracy: (source) 5' TOP 3

Water Level 160.5 ft above below MP; Ft above below LSD 161 Accuracy: TAPE BY DOW. A

Date meas: 1-29-67 167 Yield: ___ gpm Method determined ___

Drawdown: ___ ft Accuracy: ___ Pumping period ___ hrs

QUALITY OF WATER DATA: Iron ___ ppm Sulfate ___ ppm Chloride ___ ppm Hard. ___ ppm

Sp. Conduct ___ K x 10^6 Temp. ___ °F Date sampled ___

Taste, color, etc. ___

45.5
3
0112
14
R-98
1-60

161
14
R-147
1-67

Well No. [illegible] 3-01-607

Latitude-longitude ___ d ___ m ___ s N/S ___ d ___ m ___ s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD (1–19) Physiographic Province: ___ (20–21) 02 Section: ___

(22) 1 Drainage Basin: ___ (23–25) 512 Subbasin: ___ (26)

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (0) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat ___ (27) F

MAJOR AQUIFER: ___ system, ___ series (28–29) QG ___ aquifer, formation, group (30–31) SL

Lithology: ___ (32–33) ___ Origin: ___ (34) ___ Aquifer Thickness: ___ ft

(35–37) ___ Length of well open to: 16 ft (38–40) 16 Depth to top of: 226 ft (41–43) 242

MINOR AQUIFER: ___ system, ___ series (44–45) ___ aquifer, formation, group (46–47) ___

Lithology: ___ (48–49) ___ Origin: ___ (50) ___ Aquifer Thickness: ___ ft

(51–53) ___ Length of well open to: ___ ft (54–56) ___ Depth to top of: ___ ft (57–59) ___

Intervals Screened: 226 - 236;

Depth to consolidated rock: ___ ft (60–63) ___ Source of data: ___ (64) ___

Depth to basement: ___ ft (65–68) ___ Source of data: ___ (69) ___

Surficial material: ___ (70–71) ___ Infiltration characteristics: ___ (72) ___

Coefficient Trans: ___ gpd/ft (73–75) ___ Coefficient Storage: ___ (76–78) ___

Coefficient Perm: ___ gpd/ft^2; Spec cap: ___ gpm/ft; Number of geologic cards: ___ (79) ___

DRILLERS LOG

0 - 2	2	SURFACE
2 - 21	19	RED & GRAY CLAY
21 - 36	15	GRAY CLAY
36 - 50	14	BROWN SAND
50 - 122	72	BLUE CLAY
122 - 130	8	BROWN CLAY
130 - 143	13	SAND
143 - 220	77	SAND, SHELL AND CLAY
220 - 238	18	SAND
238 - 257	19	BROWN CLAY

1-93 14-93 226 236

Well No.

OPO 857-700

Geological Survey

UNITED STATES DEPARTMENT OF THE INTERIOR
Ground Water Analysis

Water Resources Division
Austin, Texas

State: Texas **4 8** County: BRAZORIA **3 4** Well No. Latitude **285633N** Longitude **0951242** (5) Seq. No. **1** Date (M D Y) **12 - - 53** Sampling Depth Type

Local Well No. BH 81-05-602 Location

Owner: — Date drilled: Depth WBF Prod. intervals KEY PUNCHED Water level

Sampled after pumping Yield GPM Pt. of coll. Appearance Use Collector

Constituent	Value	Columns
K x 10^6 (R KCl, R sample)		31–35
pH	8.1	36–38
Temperature °C		39–41
Density at 20°C		
SiO_2 (mg/l)	16	42–44
Al		
Fe (Sample Total, Sample Diss.)		
Total / Dissolved		
Ca	26	45–49
Mg	22	50–53
Na		54–58
Na + K Calc.	337	
K		59–61
HCO_3 (mg/l)	506	62–65
Total Alk as CO_3		
CO_3	43	66–67
SO_4	<1	68–72
Cl	285	73–78
Source	6	79
Card No.	Q	80
F		26–28
NO_3		29–32
NO_2		
PO_4 (Ortho, Total)		33–35
B		36–38
Al		39–41
Fe	<0.05	42–45
Mn		46–49
Cu		50–52
Pb		53–54
Zn		55–57
Dissolved solids: Determined		58–63
Dissolved solids: Calculated	1242	64–69
Hardness Ca+Mg		70–73
NCH		74–77
Color		78–79
Card No.	R	80
Br		26–28
I		29–31
Alk. as $CaCO_3$		32–35
Free CO_2		36–38
Percent Na		
SAR		39–41
RSC		42–44
MBAS		45–47
NO_2		67–68
Card No.	S	80

Total anions

Milliequivalents per liter: Na+K — Cl; Ca — $HCO_3 + CO_3$; Mg — SO_4

Analyst Checked by
Date begun Completed

Transmittals Date
Records processing
Collector
Owner

TEXAS WATER DEVELOPMENT BOARD

REPORT 163

GROUND-WATER RESOURCES OF BRAZORIA COUNTY, TEXAS

By

William M. Sandeen and John B. Wesselman
United States Geological Survey

This report was prepared by the U.S. Geological Survey
under cooperative agreement with the
Texas Water Development Board

February 1973

Reprinted by the Texas Department of Water Resources

December 1982

81-05-602

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (FT)	CASING		WATER-BEARING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-81-05-307	Dow Chemical Co.	Layne Texas Co.	1942	225	16,8	225	CU	7	13 57.4	Feb. 13, 1942 July 11, 1967	T,E	Ind	Screen from 201 to 223 ft. 1/
308	do.	do.	1943	233	--	233	CU	8	59	June 1943	N	N	Screen from 207 to 234 ft. Reported pumping level 71 ft. at 145 gpm June 6, 1943. Well destroyed. 1/
309	do.	do.	1943	230	--	230	CU	8	48	do.	N	N	Screen from 174 to 186 and 227 ft. Pumping level 59 ft. at 150 gpm June 1943. 1/
312	Dow Chemical Co. Well 4	do.	1942	249	16	249	CU	9	27	Jan. 1942	T,E	Ind	Screen from 213 to 248 ft. Reported yield 455 gpm Jan. 1942. 1/
314	Dow Chemical Co. Well 6	do.	1942	237	--	237	CU	9	--	--	N	N	Screen from 179 to 195 ft.
315	Dow Chemical Co. Well 19b	do.	1950	1,146	20 14 8	18 967 1,146	CL	8	27.8	July 11, 1967	T,E	Ind	Test hole drilled to 1,150 ft. Screen from 977 to 1,127 ft. 1/
316	Dow Chemical Co. Well 10	do.	1943	236	10	236	CU	9	48	May 1943	T,E	Ind	Screen from 203 to 233 ft. Reported pumping level 53 ft at 145 gpm, May 1946. 1/
317	Dow Chemical Co. Well 9	do.	1942	1,065	12 8	924 1,065	CL	9	+ 4 25.4 26.6	July 2, 1942 Oct. 3, 1967 Oct. 4, 1967	N	N	Screen from 928 to 1,061 ft. Test hole drilled to 1,238 ft. Reported pumping level 30 ft. at 800 gpm, July 1942. 1/
318	Dow Chemical Co.	do.	1942	1,065	12 8	924 1,065	CL	9	25.3	Oct. 3, 1967	N	N	Screen from 924 to 1,056 ft. Reported pumping level 30 ft at 800 gpm, July 1942. 1/
319	Dow Chemical Co. Well 8	do.	1966	234	10	234	CU	8	58.6	July 11, 1967	T	Ind	Screen from 207 to 234 ft.
601	Dow Chemical Co. Well 17	do.	1950	248	16	248	CU	15	140.5	Dec. 30, 1966	N	N	Screen from 208 to 232 ft. Reported pumping level 176 ft. at 465 gpm, June 1967.
# 602	Dow Chemical Co. Obs. Well 13	do.	1953	246	2	246	CU	14	119.5 160.5	Dec. 18, 1953 Jan. 29, 1967	N	N	Screen from 226 to 236 ft. Observation well. Test hole to 257 ft. 1/ 3/
603	Dow Chemical Co. Well 6	do.	1940	252	12 6	213 252	CU	15	22	May 1940	N	N	Screen from 226 to 246 ft. Test hole drilled to 254 ft. 1/
604	Dow Chemical Co. Well 7	do.	1940	253	13	253	CU	15	28 83	June 1940 June 1941	N	N	Well destroyed. Reported pumping level 62 ft at 425 gpm, June 1940. 1/

See footnotes at end of table.

Well BH-81-05-318

Owner: Dow Chemical Co.
Driller: Layne-Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Surface material	6	6
Clay, sandy clay, sand breaks	97	103
Sand, clay breaks	20	123
Clay, some sandy sandy breaks	81	204
Sand, good water	31	235
Clay	30	265
Sand, fine-grained and shale breaks	24	289
Shale and some sandy breaks	236	525
Sand	16	541
Shale	25	566
Sand, shale	40	606
Shale, some sandy breaks	184	790
Sand and shale	60	850
Shale	33	883
Sand	4	887
Shale, tough	110	997
Shale and sandy shale	14	1,011
Sand (good, top part fine-grained)	49	1,060
Shale	5	1,065

Well BH-81-05-602

Owner: Dow Chemical Co. Obs. Well 13
Driller: Layne-Texas Co.

Surface	2	2
Clay, red and gray	19	21
Clay, gray	15	36
Sand, brown	14	50
Clay, blue	72	122
Clay, brown	8	130
Sand	13	143
Sand, shell and clay	77	220
Sand	18	238
Clay, brown	19	257

Well BH-81-05-603

Owner: Dow Chemical Co. Well 6
Driller: Layne-Texas Co.

Surface soil	2	2
Muck	23	25
Clay	9	34
Sand, fine-grained	10	44
Clay and streaks of sand	47	91
Clay, blue	11	102
Sand, fine-grained	12	114
Clay, red	7	121
Sand, fine-grained brown	26	147
Clay	74	221
Sand, coarse-grained and gravel	27	248
Clay, tough	6	254

Well BH-81-05-604

Owner: Dow Chemical Co. Well 7
Driller: Layne-Texas Co.

Fill and muck	12	12
Clay	11	23
Clay and streaks of sand	27	50
Sand, fine-grained	5	55
Clay, soft	19	74
Sand, fine-grained blue	12	86
Clay	23	109
Clay and sand	46	155
Sand, white	20	175
Clay	40	215
Sand, coarse-grained and gravel	32	247
Clay	6	253

Well BH-81-05-605

Owner: Dow Chemical Co. Well 14
Driller: Layne-Texas Co.

Clay, surface material	15	15
Clay	25	40
Sand, red	18	58
Clay	21	79
Clay, sandy	20	99
Sand	10	109
Clay	9	118
Sand, red	5	123

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)
Well BH-81-04-701—Continued	
Aug. 6, 1957	12.50
Feb. 4, 1958	17.0
Well BH-81-04-702	
Owner: J. L. Ducroz	
May 18, 1937	+ 3.78
Jan. 6, 1949	19.74
Jan. 19, 1950	21.56
Aug. 23, 1950	23.34
Jan. 26, 1951	23.45
Aug. 21, 1951	24.09
Jan. 9, 1952	21.48
Aug. 12, 1952	21.78
Jan. 13, 1953	21.46
July 28, 1953	22.10
Jan. 26, 1956	31.12
Well BH-81-04-803	
Owner: T. J. Poole	
Jan. 6, 1949	3.22
Aug. 23, 1949	9.05
Jan. 19, 1950	2.28
Aug. 23, 1950	1.59
Jan. 26, 1951	3.36
Aug. 21, 1951	4.30
Jan. 9, 1952	4.09
July 28, 1953	5.34
Well BH-81-05-602	
Owner: Dow Chemical Co. Obs. Well 13	
Dec. 18, 1953	119.50
Jan. 4, 1954	121.0
Jan. 18, 1954	118.9
Jan. 25, 1954	117.7
Feb. 3, 1954	122.9
May 4, 1954	125.01
May 31, 1954	130.1
July 9, 1954	138.8
Aug. 9, 1954	135.24
Sept. 10, 1954	131.2
Oct. 8, 1954	132.4
Nov. 8, 1954	121.2
Dec. 3, 1954	130.1
Jan. 13, 1955	134.2
Feb. 4, 1955	132.3
Mar. 8, 1955	134.8
Apr. 7, 1955	124.4
May 10, 1955	127.1
June 8, 1955	142.2
July 13, 1955	145.8
Aug. 11, 1955	159.9
Sept. 9, 1955	155.7
Oct. 4, 1955	174.6
Nov. 4, 1955	182.8
Dec. 8, 1955	184.2
Jan. 18, 1956	180.5
Feb. 7, 1956	165.5
Mar. 2, 1956	158.3
Apr. 4, 1956	145.1
May 1, 1956	136.1
June 6, 1956	141.8
July 30, 1956	141.9
Sept. 5, 1956	149.5
Nov. 6, 1956	151.7
Dec. 5, 1956	148.4
Jan. 4, 1957	146.3
Feb. 4, 1957	163.5
Mar. 4, 1957	154.2
Apr. 3, 1957	152.3
Apr. 26, 1957	154.5
June 4, 1957	152.0
July 2, 1957	150.0
Aug. 1, 1957	147.3
Sept. 1957	138.4
Oct. 1957	131.4
Nov. 1957	131.4
Dec. 1957	129.5
Jan. 1958	123.2
Feb. 28, 1958	126.2
Mar. 1958	119.1
Apr. 1958	124.2
May 1958	120.6
June 1958	130.6
July 1958	134.1
Sept. 1958	131.4
Jan. 1959	119.4
Sept. 1959	123.4
Jan. 1960	115.5
Sept. 1960	123.2
Jan. 1961	103.3
Feb. 1961	102.3
Mar. 1961	103.6
Apr. 1961	108.2
May 1961	111.2
June 30, 1961	108.0
July 27, 1961	104.6
Aug. 1961	106.3
Oct. 1961	102.7
Nov. 1961	98.0
Dec. 1961	95.5
Jan. 1962	101.6
Feb. 1962	99.4
Mar. 1962	98.8
Apr. 1962	95.8
May 1962	109.5
June 1962	117.2
July 1962	128.3
Aug. 29, 1962	125.6
Sept. 27, 1962	121.6
Oct. 25, 1962	122.4
Nov. 27, 1962	116.8

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 81-05-607

groundwater

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	8105607
County	Brazoria
River Basin	Brazos
Groundwater Management Area	14
Regional Water Planning Area	H - Region H
Groundwater Conservation District	Brazoria County GCD
Latitude (decimal degrees)	28.932778
Latitude (degrees minutes seconds)	28° 55' 58" N
Longitude (decimal degrees)	-95.381111
Longitude (degrees minutes seconds)	095° 22' 52" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	112CHCTU - Chicot Aquifer, Upper
Aquifer	Gulf Coast
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	15
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	281
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	11/25/1953
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	

Well Type	Observation
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Dow Chemical Co. obs #5
Driller	Layne Texas Co.
Other Data Available	Electric Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	12/10/1997
Last Update Date	12/10/1997

Remarks well #5. Not completed.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

WRD Exp. (GW)
April 1966

Well No. BH 81-05-607

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR — GEOLOGICAL SURVEY — WATER RESOURCES DIVISION

NOT COMPLETED DUE TO INSUFFICIENT SAND

MASTER CARD

1:24,000

Record by W. SANDEEN Source of data DOW RECORDS Date 7-24-67 Map JONES CREEK 1963

State TEXAS 48 County (or town) BRAZORIA BH

Latitude: 28 55 57 N Longitude: 095 25 51 Sequential number: 1

Lat-long accuracy: 2 T. ___ N S, R ___ W, Sec ___, ___ k, ___ k, ___ k

Local well number: BH8105607 Other number: OBS # 5 B & H

Local use: ___ Owner or name: DOW CHEMICAL COMPANY

Owner or name: DOW CHEM CO. Address: FREE PORT, TEXAS

Ownership: (C) County, (F) Fed Gov't, (M) City, (N) Corp or Co, (P) Private, (S) State Agency, (W) Water Dist — N

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Irr, (I) Mnd, (M) Ind, (P) P S, (R) Rec, (S) Stock, (T) Institt, (U) Unused, (V) Repressure, (W) Recharge, (X) Desal-P S, (Y) Desal-other, (Z) Other — U

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Hse, (O) Obs, (Q) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdrew, (X) Waste, (S) Destroyed — Z

DATA AVAILABLE: Well data ___ Freq. W/L meas.: ___ N Field aquifer char. ___

Hyd. lab. data: ___

Qual. water data; type: ___

Freq. sampling: ___ Pumpage inventory: yes no, period: ___

Aperture cards: ___ yes

Log data: E LOG NOT COMPLETED INCLUDE TO AVOID CONFUSION. E D

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 281 ft 281 Meas. rept accuracy G

Depth cased; (first perf.) IV A ft Casing type: ___; Diam.: N ", in

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (O) open end, (P) perf., screen, sd. pt., (S) shored, (T) open hole, (Z) other NONE Z

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd auger, (J) jetted, (P) air percussion, (R) reverse rotary; (T) trenching, (V) driven, (W) drive wash, (Z) other ___ H

Date Drilled: 11-25-53 9 5 3 Pump intake setting: ___ ft

Driller: LAXME TEXAS (name, address)

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple (cent.), (M) multiple (turb.), (N) none, (P) piston, (R) rot, submerg, (S) turb, (T) other N Deep Shallow

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. NONE Trans. or meter no.

Descrip. MP ___ ft above below LSD. Alt. MP ___

Alt. LSD: 157 1 5 Accuracy: (source) 5' TOPO 2

Water Level ___ ft above below MP; Ft above below LSD ___ Accuracy: ___

Date meas: ___ Yield: ___ gpm Method determined ___

Drawdown: ___ ft Accuracy: ___ Pumping period ___ hrs

QUALITY OF WATER DATA: Iron ___ ppm Sulfate ___ ppm Chloride ___ ppm Hard. ___ ppm

Sp. Conduct ___ K x 10^6 Temp. ___ °F Date sampled ___

Taste, color, etc. ___

MAIL TO:

Well No. BH-61-05-607

Latitude-longitude d m s N S d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD | Physiographic Province: ______ [0 3] Section: ______

[F] Drainage Basin: ______ [S?B] Subbasin: ______ [ ]

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (O) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat [F]

MAJOR AQUIFER: ______ system, ______ series [Q G] ______ aquifer, formation, group [C U]

Lithology: ______ [ ] Origin: ______ [ ] Aquifer Thickness: ______ ft

[ ] Length of well open to: ______ ft [ ] Depth to top of: ______ ft [ ]

MINOR AQUIFER: ______ system, ______ series [ ] ______ aquifer, formation, group [ ]

Lithology: ______ [ ] Origin: ______ [ ] Aquifer Thickness: ______ ft

[ ] Length of well open to: ______ ft [ ] Depth to top of: ______ ft [ ]

Intervals Screened: -0- WELL ABANDONED NA

Depth to consolidated rock: ______ ft [ ] Source of data: ______ [ ]

Depth to basement: ______ ft [ ] Source of data: ______ [ ]

Surficial material: ______ [ ] Infiltration characteristics: ______ [ ]

Coefficient Trans: ______ gpd/ft [ ] Coefficient Storage: ______ [ ]

Coefficient Perm: ______ gpd/ft^2; Spec cap: ______ gpm/ft; Number of geologic cards: ______ [ ]

DALS LOG

0-10	10	FILL
10-39	29	YELLOW & GRAY CLAY
39-50	11	RED CLAY
50-156	106	BLUE CLAY
156-163	7	SAND & SHELL
163-274	111	BLUE CLAY
274-281	7	CLAY

Well No.

GPO 857-700

No well data for well #66819

Attachment 11

Soil Map

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Brazoria County, Texas

March 8, 2025

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

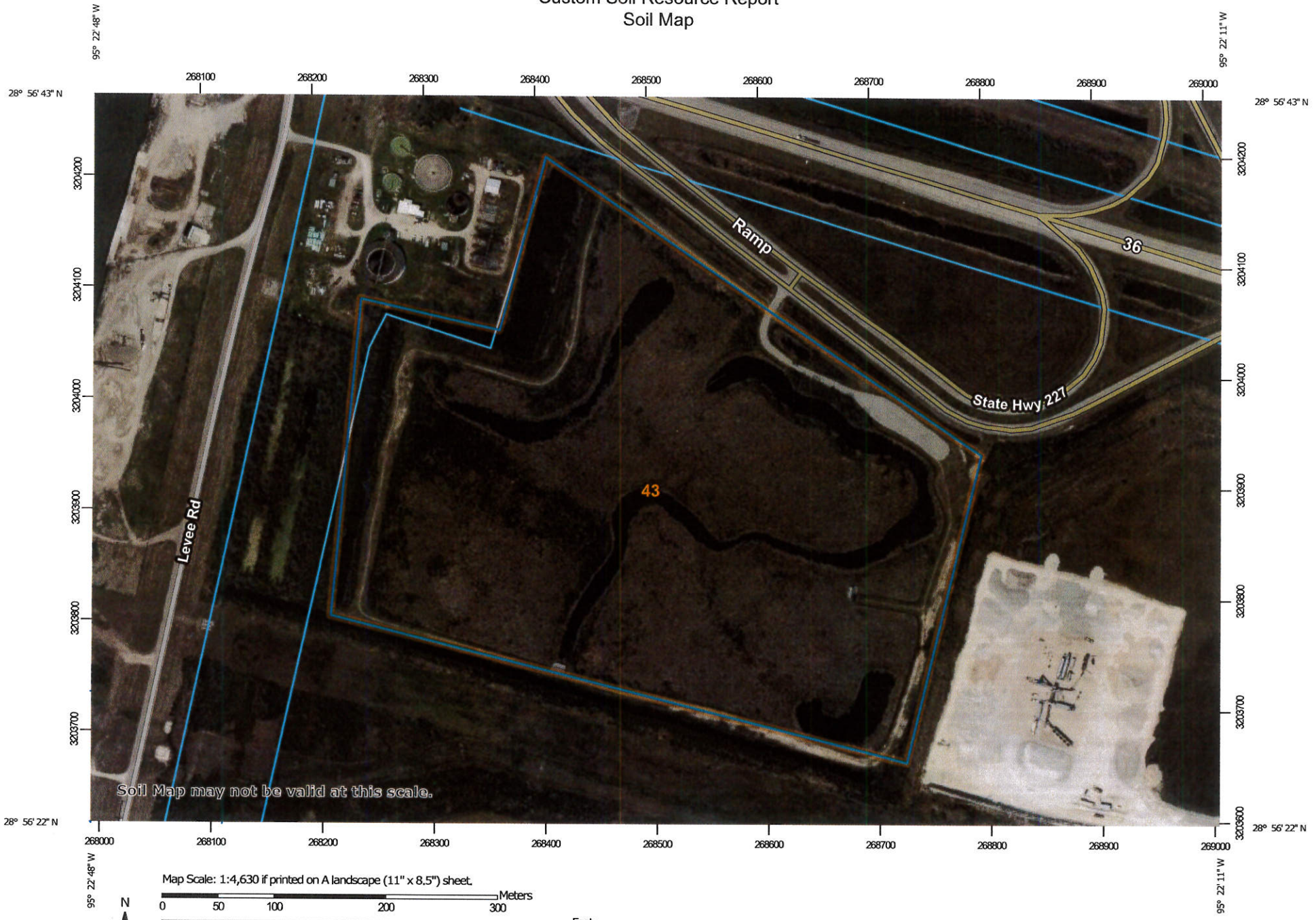
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:4,630 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Brazoria County, Texas
Survey Area Data: Version 22, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 20, 2022—Mar 25, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
43	Surfside clay, 0 to 1 percent slopes, occasionally flooded	48.2	100.0%
Totals for Area of Interest		**48.2**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Brazoria County, Texas

43—Surfside clay, 0 to 1 percent slopes, occasionally flooded

Map Unit Setting

National map unit symbol: 2vv3t
Elevation: 0 to 10 feet
Mean annual precipitation: 40 to 60 inches
Mean annual air temperature: 69 to 72 degrees F
Frost-free period: 275 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

Surfside and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Surfside

Setting

Landform: Flood plains
Landform position (three-dimensional): Dip
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous holocene age saline clayey alluvium derived from igneous, metamorphic and sedimentary rock

Typical profile

Ag1 - 0 to 14 inches: clay
Ag2 - 14 to 32 inches: clay
Bg - 32 to 80 inches: clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Strongly saline (16.0 to 32.0 mmhos/cm)
Sodium adsorption ratio, maximum: 40.0
Available water supply, 0 to 60 inches: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): 6s
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: R150BY551TX - Salty Prairie
Hydric soil rating: Yes

Minor Components

Velasco

Percent of map unit: 5 percent
Landform: Flood plains
Landform position (three-dimensional): Dip
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R150BY550TX - Northern Salt Marsh
Hydric soil rating: Yes

Veston

Percent of map unit: 4 percent
Landform: Barrier flats
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R150BY550TX - Northern Salt Marsh
Hydric soil rating: Yes

Ijam

Percent of map unit: 1 percent
Landform: Flats
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R151XY673TX - INTERMEDIATE Firm MARSH
Hydric soil rating: Yes

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Attachment 12
Lab Reports

130 S. Trade Center Parkway, Conroe TX 77385
Tel: (936) 321-6060
Email: lab@nwdls.com
www. NWDLS.com

September 23, 2024

Laboratory Report

Jerry Meeks Jr.
Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Report ID: 20240923104719JKW

The following test results meet all NELAP requirements for analytes for which certification is available. Any deviations from our quality system will be noted in the case narrative. All analyses performed by North Water District Laboratory Services, Inc. unless noted.

For questions regarding this report, contact Monica Martin at 936-321-6060.

Sincerely,

Justin Wood For Aundra Noe
Project Manager

130 S. Trade Center Parkway, Conroe TX 77385
Tel: (936) 321-6060
Email: lab@nwdls.com
www. NWDLS.com
TCEQ TX-C24-00185

Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Sample Results

Client Sample ID: Outfall 001
Lab Sample ID: 24F3396-01
Veolia Water - Permit Renewal [none]

Sample Matrix: Waste Water
Date Collected: 06/27/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Chemistry										
SM 4500-CN^- G	Amenable Cyanide	A	<10.0U	ug/L	1	5.00	10.0	BHG0858	07/08/2024 14:48	TBB
SM 4500-CN^- C	Total Cyanide	A	<10.0U	ug/L	1	5.00	10.0	BHG0858	07/08/2024 14:48	TBB
EPA 1664A	n-Hexane Extractable Material (O&G)	A	<5.00U	mg/L	1	5.00	5.00	BHG0933	07/09/2024 09:17	IDC
Field										
Hach 10360	DO Field	N	6.08	mg/L	1	1.00	1.00	BHG0142	06/27/2024 08:10	AEN
Calc	Flow Field	N	0.790	MGD	1	0.00	0.00	BHG0142	06/27/2024 08:10	AEN
SM 4500-H+ B	pH	A	7.34	pH Units @ 25 °C	1	1.00	1.00	BHG0142	06/27/2024 08:10	AEN

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TCEQ TX-C24-00185

Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler
Lab Sample ID: 24F3396-02
Veolia Water - Permit Renewal [none]

Sample Matrix: Waste Water
Date Collected: 06/27/2024 8:10
Collected by: Jerry Meeks Jr.

Semivolatile Organic Compounds by GCMS

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
ASTM D7065	*Surrogate: n-NP-surr*		*54.0% S*		*60-140*					*06/29/2024 04:46*	
EPA 625.1	1,2,4,5-Tetrachlorobenzene	A	<10.0	U	ug/L	1	0.0760	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	1,2,4-Trichlorobenzene	A	<10.0	U	ug/L	1	0.0943	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	1,2-Diphenylhydrazine	A	<20.0	U	ug/L	1	0.250	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methy	A	<10.0	U	ug/L	1	0.129	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2,4,5-Trichlorophenol	A	<10.0	U	ug/L	1	0.210	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2,4,6-Trichlorophenol	A	<10.0	U	ug/L	1	0.385	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2,4-Dichlorophenol	A	<10.0	U	ug/L	1	0.256	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2,4-Dimethylphenol	A	<10.0	U	ug/L	1	0.294	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2,4-Dinitrophenol	A	<50.0	U	ug/L	1	2.85	50.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2,4-Dinitrotoluene (2,4-DNT)	A	<10.0	U	ug/L	1	0.0530	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2,6-Dinitrotoluene (2,6-DNT)	A	<10.0	U	ug/L	1	0.584	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2-Chloronaphthalene	A	<10.0	U	ug/L	1	0.123	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2-Chlorophenol	A	<10.0	U	ug/L	1	0.147	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylph	A	<50.0	U	ug/L	1	0.511	50.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	2-Nitrophenol	A	<20.0	U	ug/L	1	0.218	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	3,4-Methylphenol	A	<10.0	U	ug/L	1	0.462	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	4-Bromophenyl phenyl ether (BDE-3)	A	<10.0	U	ug/L	1	0.0682	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	4-Chloro-3-methylphenol	A	<10.0	U	ug/L	1	0.218	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	4-Chlorophenyl phenylether	A	<10.0	U	ug/L	1	0.207	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	4-Nitrophenol	A	<50.0	U	ug/L	1	2.40	50.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Acenaphthene	A	<10.0	U	ug/L	1	0.0776	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Acenaphthylene	A	<10.0	U	ug/L	1	0.0594	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Anthracene	A	<10.0	U	ug/L	1	0.0532	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Benzo(a)anthracene	A	<5.00	U	ug/L	1	0.0738	5.00	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Benzo(a)pyrene	A	<5.00	U	ug/L	1	0.143	5.00	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	benzo(b&k)fluoranthene	A	<5.00	U	ug/L	1	0.118	5.00	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Benzo(g,h,i)perylene	A	<20.0	U	ug/L	1	0.112	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	bis(2-Chloroethoxy)methane	A	<10.0	U	ug/L	1	0.112	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	bis(2-Chloroethyl) ether	A	<10.0	U	ug/L	1	0.184	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Bis(2-ethylhexyl)phthalate	A	<10.0	U	ug/L	1	0.500	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Butyl benzyl phthalate	A	<10.0	U	ug/L	1	0.123	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Chrysene	A	<5.00	U	ug/L	1	0.0573	5.00	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Dibenzo(a,h)anthracene	A	<5.00	U	ug/L	1	0.152	5.00	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Diethyl phthalate	A	<10.0	U	ug/L	1	0.150	10.0	BHG0031	07/03/2024 01:26	KRB

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TCEQ TX-C24-00185

Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler (Continued)
Lab Sample ID: 24F3396-02
Veolia Water - Permit Renewal [none]

Sample Matrix: Waste Water
Date Collected: 06/27/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Semivolatile Organic Compounds by GCMS (Continued)											
EPA 625.1	Dimethyl phthalate	A	<10.0	U	ug/L	1	0.0869	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Di-n-butyl phthalate	A	<10.0	U	ug/L	1	0.505	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Di-n-octyl phthalate	A	<10.0	U	ug/L	1	0.163	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Fluoranthene	A	<10.0	U	ug/L	1	0.0676	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Fluorene	A	<10.0	U	ug/L	1	0.0589	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Hexachlorobenzene	A	<5.00	U	ug/L	1	0.0629	5.00	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Hexachlorobutadiene	A	<10.0	U	ug/L	1	0.0697	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Hexachloroethane	A	<20.0	U	ug/L	1	0.0644	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Hexachlorophene	A	<10.0	U	ug/L	1	0.343	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Indeno(1,2,3-cd) pyrene	A	<5.00	U	ug/L	1	0.126	5.00	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Isophorone	A	<10.0	U	ug/L	1	0.0853	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Naphthalene	A	<10.0	U	ug/L	1	0.0742	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Nitrobenzene	A	<10.0	U	ug/L	1	0.118	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	n-Nitrosodiethylamine	A	<20.0	U	ug/L	1	0.162	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	n-Nitroso-di-n-butylamine	A	<20.0	U	ug/L	1	1.87	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	n-Nitrosodi-n-propylamine	A	<20.0	U	ug/L	1	0.445	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	n-Nitrosodiphenylamine	A	<20.0	U	ug/L	1	0.0609	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Pentachlorobenzene	A	<20.0	U	ug/L	1	0.0514	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Pentachlorophenol	A	<5.00	U	ug/L	1	0.437	5.00	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Phenanthrene	A	<10.0	U	ug/L	1	0.0816	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Phenol, Total	A	<10.0	U	ug/L	1	0.470	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Pyrene	A	<10.0	U	ug/L	1	0.0848	10.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	Pyridine	A	<20.0	U	ug/L	1	4.40	20.0	BHG0031	07/03/2024 01:26	KRB
EPA 625.1	*Surrogate: 2,4,6-Tribromophenol-surr*		*106%*		*33.6-139*					*07/03/2024 01:26*	
EPA 625.1	*Surrogate: 2-Fluorobiphenyl-surr*		*93.4%*		*32.2-138*					*07/03/2024 01:26*	
EPA 625.1	*Surrogate: 2-Fluorophenol-surr*		*117%*		*32.7-137*					*07/03/2024 01:26*	
EPA 625.1	*Surrogate: Nitrobenzene-d5-surr*		*109%*		*31.2-136*					*07/03/2024 01:26*	
EPA 625.1	*Surrogate: Phenol-d5-surr*		*92.9%*		*28.9-155*					*07/03/2024 01:26*	
EPA 625.1	*Surrogate: p-Terphenyl-d14-surr*		*89.8%*		*37.6-117*					*07/03/2024 01:26*	
Organics by GC											
SM 6640 B	2,4-D	A	<0.700	U	ug/L	2	0.234	0.700	BHG0419	07/18/2024 10:04	cdg
SM 6640 B	Silvex (2,4,5-TP)	A	<0.300	U	ug/L	2	0.236	0.300	BHG0419	07/18/2024 10:04	cdg
EPA 1657	Azinphos-methyl (Guthion)	A	<0.100	U	ug/L	1	0.0332	0.100	BHG0406	07/17/2024 05:53	cdg
EPA 1657	Chlorpyrifos	A	<0.0500	U	ug/L	1	0.0256	0.0500	BHG0406	07/17/2024 05:53	cdg
EPA 1657	Demeton	A	<0.200	U	ug/L	1	0.0129	0.200	BHG0406	07/17/2024 05:53	cdg
EPA 1657	Diazinon	A	<0.500	U	ug/L	1	0.0321	0.500	BHG0406	07/17/2024 05:53	cdg
EPA 1657	Malathion	A	<0.100	U	ug/L	1	0.0133	0.100	BHG0406	07/17/2024 05:53	cdg

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TCEQ TX-C24-00185

Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler (Continued)
Lab Sample ID: 24F3396-02
Veolia Water - Permit Renewal [none]

Sample Matrix: Waste Water
Date Collected: 06/27/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Organics by GC (Continued)											
EPA 1657	Parathion, ethyl	A	<0.100	U	ug/L	1	0.0206	0.100	BHG0406	07/17/2024 05:53	cdg
Metals, Total											
EPA 200.8	Aluminum	A	26.0		ug/L	1	0.167	5.00	BHF3940	07/02/2024 09:22	JKC
EPA 200.8	Antimony	A	<5.00	U	ug/L	1	0.0589	5.00	BHF3940	07/02/2024 12:56	JKC
EPA 200.8	Arsenic	A	2.97		ug/L	1	0.0468	0.500	BHF3940	07/02/2024 11:39	JKC
EPA 200.8	Barium	A	41.6		ug/L	1	0.0200	6.00	BHF3940	07/02/2024 12:56	JKC
EPA 200.8	Beryllium	A	<0.500	U	ug/L	1	0.0137	0.500	BHF3940	07/09/2024 11:02	JKC
EPA 200.8	Cadmium	A	<1.00	U	ug/L	1	0.00798	1.00	BHF3940	07/09/2024 11:02	JKC
EPA 200.8	Chromium	A	<3.00	U	ug/L	1	0.0839	3.00	BHF3940	07/02/2024 12:56	JKC
EPA 200.8	Copper	A	<2.00	U	ug/L	1	0.182	2.00	BHF3940	07/02/2024 09:22	JKC
Calc	Chromium (III)		<0.00300		mg/L	1	8.39E-5	0.00300	[CALC]	07/02/2024 12:56	JKC
EPA 200.8	Lead	A	<0.500	U	ug/L	1	0.0120	0.500	BHF3940	07/09/2024 11:02	JKC
EPA 200.8	Nickel	A	2.83		ug/L	1	0.0398	2.00	BHF3940	07/02/2024 09:22	JKC
EPA 200.8	Selenium	A	<5.00	U	ug/L	1	0.354	5.00	BHF3940	07/02/2024 09:22	JKC
EPA 200.8	Silver	A	<0.500	U	ug/L	1	0.00467	0.500	BHF3940	07/09/2024 11:02	JKC
EPA 200.8	Thallium	A	<1.25	U	ug/L	1	0.0617	1.25	BHF3940	07/02/2024 12:56	JKC
EPA 200.8	Zinc	A	<5.00	U	ug/L	1	0.207	5.00	BHF3940	07/02/2024 09:22	JKC
General Chemistry											
SM 2320 B	Alkalinity as CaCO3	A	157		mg/L	1	10.0	10.0	BHF3955	06/28/2024 16:15	FPN
SM 5210 B	Carbonaceous BOD (CBOD)	A	3.59		mg/L	13514	2.03	2.03	BHF3919	07/02/2024 12:35	BAK
EPA 300.0	Chloride	A	246		mg/L	5	0.172	5.00	BHF4087	06/28/2024 23:28	AGZ
SM 2510 B	Conductivity	A	1340		umhos/cm @ 25 °C	1	2.00	2.00	BHF3955	06/28/2024 16:15	FPN
EPA 300.0	Fluoride	A	<0.250	U	mg/L	1	0.0105	0.250	BHF4087	06/28/2024 23:08	AGZ
EPA 350.1	Ammonia as N	A	12.4		mg/L	50	0.700	2.00	BHG0085	07/02/2024 13:52	AMM
EPA 300.0	Nitrate as N	A	<100	U	ug/L	1	14.2	100	BHF4087	06/28/2024 23:08	AGZ
EPA 300.0	Nitrite as N	A	<50.0	U	ug/L	1	5.10	50.0	BHF4087	06/28/2024 23:08	AGZ
EPA 300.0	Sulfate	A	75.2		mg/L	5	0.170	5.00	BHF4087	06/28/2024 23:28	AGZ
SM 2540 C	Residue-filterable (TDS)	A	604		mg/L	1	10.0	10.0	BHF3943	07/01/2024 10:36	BP
SM 4500-NH3 C	Total Kjeldahl Nitrogen - (TKN)	A	23.7		mg/L	1	0.100	1.00	BHG0077	07/02/2024 09:15	GIW
EPA 365.1	Total Phosphorus	A	5.10		mg/L	1	0.117	0.200	BHG0180	07/10/2024 16:32	GJG
SM 2540 D	Residue-nonfilterable (TSS)	A	6.95		mg/L	1	1.00	1.00	BHF3952	07/01/2024 12:48	BP

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TCEQ TX-C24-00185

Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler
Lab Sample ID: 24F3396-02RE1
Veolia Water - Permit Renewal [none]

Sample Matrix: Waste Water
Date Collected: 06/27/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Semivolatile Organic Compounds by GCMS											
ASTM D7065	Nonylphenol (Rerun)	N	<333	U	ug/L	5	5.93	333	BHF4081	07/02/2024 05:42	CDG
ASTM D7065	*Surrogate: n-NP-surr (Rerun)*		*90.5%*		*60-140*					*07/02/2024 05:42*	

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Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler
Lab Sample ID: 24F3396-02RE2
Veolia Water - Permit Renewal [none]

Sample Matrix: Waste Water
Date Collected: 06/27/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Semivolatile Organic Compounds by GCMS											
EPA 625.1	*Surrogate: 2-Fluorobiphenyl-surr (Rerun)*		*55.7%*		*32.2-138*					*07/12/2024 03:42*	
EPA 625.1	*Surrogate: Nitrobenzene-d5-surr (Rerun)*		*88.3%*		*31.2-136*					*07/12/2024 03:42*	
EPA 625.1	*Surrogate: p-Terphenyl-d14-surr (Rerun)*		*56.3%*		*37.6-117*					*07/12/2024 03:42*	

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Veolia Water
931 E Floodgate Rd
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Reported:
09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler
Lab Sample ID: 24F3396-02RE3
Veolia Water - Permit Renewal [none]

Sample Matrix: Waste Water
Date Collected: 06/27/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Semivolatile Organic Compounds by GCMS										
EPA 625.1	3,3'-Dichlorobenzidine (Rerun)	A	<5.00U	ug/L	1	3.87	5.00	BHG0031	07/12/2024 23:35	KRB
EPA 625.1	Benzidine (Rerun)	A	<50.0U	ug/L	1	11.8	50.0	BHG0031	07/12/2024 23:35	KRB
EPA 625.1	*Surrogate: 2-Fluorobiphenyl-surr (Rerun)*		*49.9%*	*32.2-138*					*07/12/2024 23:35*	
EPA 625.1	*Surrogate: Nitrobenzene-d5-surr (Rerun)*		*61.4%*	*31.2-136*					*07/12/2024 23:35*	
EPA 625.1	*Surrogate: p-Terphenyl-d14-surr (Rerun)*		*52.0%*	*37.6-117*					*07/12/2024 23:35*	

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Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler
Lab Sample ID: 24F3396-02RE4
Veolia Water - Permit Renewal [none]

Sample Matrix: Waste Water
Date Collected: 06/27/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Semivolatile Organic Compounds by GCMS											
EPA 625.1	*Surrogate: 2-Fluorobiphenyl-surr (Rerun)*		*70.0%*		*32.2-138*					*07/16/2024 05:24*	
EPA 625.1	*Surrogate: Nitrobenzene-d5-surr (Rerun)*		*86.9%*		*31.2-136*					*07/16/2024 05:24*	
EPA 625.1	*Surrogate: p-Terphenyl-d14-surr (Rerun)*		*69.1%*		*37.6-117*					*07/16/2024 05:24*	

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Reported:
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Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler
Lab Sample ID: 24F3396-02RE5
Veolia Water - Permit Renewal [none]

Sample Matrix: Waste Water
Date Collected: 06/27/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Semivolatile Organic Compounds by GCMS											
EPA 625.1	Hexachlorocyclopentadiene (Rerun)	A	<10.0	U	ug/L	3	0.750	10.0	BHG0031	07/30/2024 08:17	KRB
EPA 625.1	n-Nitrosodimethylamine (Rerun)	A	<50.0	U	ug/L	3	3.71	50.0	BHG0031	07/30/2024 08:17	KRB
EPA 625.1	*Surrogate: 2,4,6-Tribromophenol-surr (Rerur.*		*68.2%*		*33.6-139*					*07/30/2024 08:17*	
EPA 625.1	*Surrogate: 2-Fluorobiphenyl-surr (Rerun)*		*77.0%*		*32.2-138*					*07/30/2024 08:17*	
EPA 625.1	*Surrogate: 2-Fluorophenol-surr (Rerun)*		*91.7%*		*32.7-137*					*07/30/2024 08:17*	
EPA 625.1	*Surrogate: Nitrobenzene-d5-surr (Rerun)*		*93.5%*		*31.2-136*					*07/30/2024 08:17*	
EPA 625.1	*Surrogate: Phenol-d5-surr (Rerun)*		*71.9%*		*28.9-155*					*07/30/2024 08:17*	
EPA 625.1	*Surrogate: p-Terphenyl-d14-surr (Rerun)*		*64.0%*		*37.6-117*					*07/30/2024 08:17*	

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09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: 18 Mohm DI
Lab Sample ID: 24G1575-01
Veolia - Outfall 001 3 Part Grab Composite 1 RC [none]

Sample Matrix: Waste Water
Date Collected: 08/15/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Metals, Total											
EPA 1631E	Mercury	A	<0.00500	U	ug/L	1	0.00250	0.00500	BHH3453	08/27/2024 15:00	TBB

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Sample Results
(Continued)

Client Sample ID: Outfall 001 3 Part Grab
Lab Sample ID: 24G1575-02
Veolia - Outfall 001 3 Part Grab Composite 1 RC [none]

Sample Matrix: Waste Water
Date Collected: 08/15/2024 7:30
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Metals, Total										
EPA 1631E	Mercury	A	<0.00500U	ug/L	1	0.00250	0.00500	BHH3453	08/27/2024 15:10	TBB

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Reported:
09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: 18 Mohm DI
Lab Sample ID: 24G1576-01
Veolia - Outfall 001 3 Part Grab Composite 2 RC [none]

Sample Matrix: Waste Water
Date Collected: 08/15/2024 0:00
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Metals, Total											
EPA 1631E	Mercury	A	<0.00500	U	ug/L	1	0.00250	0.00500	BHH3453	08/27/2024 15:15	TBB

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Reported:
09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: Outfall 001 3 Part Grab
Lab Sample ID: 24G1576-02
Veolia - Outfall 001 3 Part Grab Composite 2 RC [none]

Sample Matrix: Waste Water
Date Collected: 08/15/2024 7:30
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Metals, Total											
EPA 1631E	Mercury	A	<0.00500	U	ug/L	1	0.00250	0.00500	BHH3453	08/27/2024 15:19	TBB

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Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler
Lab Sample ID: 24G2868-01
Veolia Water - Permit Renewal Recollect II [none]

Sample Matrix: Waste Water
Date Collected: 08/15/2024 8:10
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Metals, Dissolved											
SM 3500-Cr B	Chromium (VI)	A	4.44		ug/L	1	1.50	3.00	BHH2911	08/22/2024 10:09	JVG

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Reported:
09/23/2024 10:47

Sample Results
(Continued)

Client Sample ID: Outfall 001 Sampler
Lab Sample ID: 24H4177-01
Veolia Water - Permit Renewal Recollect II [none]

Sample Matrix: Waste Water
Date Collected: 08/29/2024 8:20
Collected by: Jerry Meeks Jr.

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Metals, Dissolved											
SM 3500-Cr B	Chromium (VI)	A	31.9		ug/L	1	1.50	3.00	BHH3712	09/03/2024 10:33	JVG

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Quality Control

Semivolatile Organic Compounds by GCMS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHF4081 - SW-3511										
MB NP (BHF4081-BLK1)					Prepared & Analyzed: 6/28/2024					
Nonylphenol	<333	U	333	ug/L						
Surrogate: n-NP-surr			*6.21*	*ug/L*	*7.96*		*78.1*	*60-140*		
BS NP (BHF4081-BS1)					Prepared & Analyzed: 6/28/2024					
Nonylphenol	38.3	U	333	ug/L	39.8		96.2	56-112		
Surrogate: n-NP-surr			*6.88*	*ug/L*	*7.95*		*86.6*	*60-140*		
BSD NP (BHF4081-BSD1)					Prepared: 6/28/2024 Analyzed: 6/29/2024					
Nonylphenol	37.3	U	333	ug/L	39.8		93.7	56-112	2.51	22
Surrogate: n-NP-surr			*6.15*	*ug/L*	*7.97*		*77.2*	*60-140*		
24F2138-01 MS (BHF4081-MS1)		**Source: 24F2138-01**			Prepared: 6/28/2024 Analyzed: 6/29/2024					
Nonylphenol	<333	CQ, J1, U	333	ug/L	40.0	<333		56-112		
Surrogate: n-NP-surr			*4.87*	*ug/L*	*7.99*		*61.0*	*60-140*		
Matrix Spike (BHF4081-MS2)		**Source: 24F2138-01RE1**			Prepared: 6/28/2024 Analyzed: 7/2/2024					
Nonylphenol	20.4	J1, U	333	ug/L	40.0	<333	51.2	56-112		
Surrogate: n-NP-surr			*8.01*	*ug/L*	*7.99*		*100*	*60-140*		
24F2138-01 MSD (BHF4081-MSD1)		**Source: 24F2138-01**			Prepared: 6/28/2024 Analyzed: 6/29/2024					
Nonylphenol	<333	CQ, J1, U	333	ug/L	39.5	<333		56-112		22
Surrogate: n-NP-surr			*5.75*	*ug/L*	*7.91*		*72.8*	*60-140*		
Matrix Spike Dup (BHF4081-MSD2)		**Source: 24F2138-01RE1**			Prepared: 6/28/2024 Analyzed: 7/2/2024					
Nonylphenol	19.9	J1, U	333	ug/L	39.5	<333	50.4	56-112	2.68	22
Surrogate: n-NP-surr			*7.73*	*ug/L*	*7.91*		*97.7*	*60-140*		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE										
Blank (BHG0031-BLK1)					Prepared: 7/1/2024 Analyzed: 7/2/2024					
2-Methylphenol	<1.10	U	1.10	ug/L						
1,2,4,5-Tetrachlorobenzene	<0.300	U	0.300	ug/L						
1,2,4-Trichlorobenzene	<0.300	U	0.300	ug/L						
1,2-Diphenylhydrazine	<0.750	U	0.750	ug/L						
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methy	<0.400	U	0.400	ug/L						
2,4,5-Trichlorophenol	<0.700	U	0.700	ug/L						
2,4,6-Trichlorophenol	<1.20	U	1.20	ug/L						
2,4-Dichlorophenol	<0.800	U	0.800	ug/L						
2,4-Dimethylphenol	<0.900	U	0.900	ug/L						
2,4-Dinitrophenol	<8.60	U	8.60	ug/L						
2,4-Dinitrotoluene (2,4-DNT)	<0.200	U	0.200	ug/L						
2,6-Dinitrotoluene (2,6-DNT)	<1.80	U	1.80	ug/L						
2-Chloronaphthalene	<0.400	U	0.400	ug/L						
2-Chlorophenol	<0.500	U	0.500	ug/L						
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylph	<1.60	U	1.60	ug/L						
2-Nitrophenol	<0.700	U	0.700	ug/L						
3,4-Methylphenol	<1.40	U	1.40	ug/L						
4-Bromophenyl phenyl ether (BDE-3)	<0.300	U	0.300	ug/L						
4-Chloro-3-methylphenol	<0.700	U	0.700	ug/L						
4-Chlorophenyl phenylether	<0.700	U	0.700	ug/L						
4-Nitrophenol	<7.20	U	7.20	ug/L						
Acenaphthene	<0.300	U	0.300	ug/L						
Acenaphthylene	<0.200	U	0.200	ug/L						
Anthracene	<0.200	U	0.200	ug/L						
Benzo(a)anthracene	<0.300	U	0.300	ug/L						
Benzo(a)pyrene	<0.500	U	0.500	ug/L						
benzo(b&k)fluoranthene	<0.400	U	0.400	ug/L						
Benzo(g,h,i)perylene	<0.400	U	0.400	ug/L						
bis(2-Chloroethoxy)methane	<0.400	U	0.400	ug/L						
bis(2-Chloroethyl) ether	<0.600	U	0.600	ug/L						
Bis(2-ethylhexyl)phthalate	<1.50	U	1.50	ug/L						
Butyl benzyl phthalate	<0.400	U	0.400	ug/L						
Chrysene	<0.200	U	0.200	ug/L						
Dibenzo(a,h)anthracene	<0.500	U	0.500	ug/L						
Diethyl phthalate	<0.500	U	0.500	ug/L						
Dimethyl phthalate	<0.300	U	0.300	ug/L						
Di-n-butyl phthalate	<1.60	U	1.60	ug/L						
Di-n-octyl phthalate	<0.500	U	0.500	ug/L						
Fluoranthene	<0.300	U	0.300	ug/L						
Fluorene	<0.200	U	0.200	ug/L						
Hexachlorobenzene	<0.200	U	0.200	ug/L						
Hexachlorobutadiene	<0.300	U	0.300	ug/L						
Hexachlorocyclopentadiene	<0.750	U	0.750	ug/L						
Hexachloroethane	<0.200	U	0.200	ug/L						
Hexachlorophene	<1.10	U	1.10	ug/L						
Indeno(1,2,3-cd) pyrene	<0.400	U	0.400	ug/L						

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
Blank (BHG0031-BLK1)					Prepared: 7/1/2024 Analyzed: 7/2/2024					
Isophorone	<0.300	U	0.300	ug/L						
Naphthalene	<0.300	U	0.300	ug/L						
Nitrobenzene	<0.400	U	0.400	ug/L						
n-Nitrosodiethylamine	<0.500	U	0.500	ug/L						
n-Nitrosodimethylamine	<3.80	U	3.80	ug/L						
n-Nitroso-di-n-butylamine	<5.70	U	5.70	ug/L						
n-Nitrosodi-n-propylamine	<1.40	U	1.40	ug/L						
n-Nitrosodiphenylamine	<0.200	U	0.200	ug/L						
Pentachlorobenzene	<0.200	U	0.200	ug/L						
Pentachlorophenol	<1.40	U	1.40	ug/L						
Phenanthrene	<0.300	U	0.300	ug/L						
Phenol, Total	<1.50	U	1.50	ug/L						
Pyrene	<0.300	U	0.300	ug/L						
Pyridine	<13.3	U	13.3	ug/L						
Surrogate: 2,4,6-Tribromophenol-surr			*4.18*	*ug/L*	*4.00*		*105*	*33.6-139*		
Surrogate: 2-Fluorobiphenyl-surr			*2.07*	*ug/L*	*2.00*		*104*	*32.2-138*		
Surrogate: 2-Fluorophenol-surr			*4.75*	*ug/L*	*4.00*		*119*	*32.7-137*		
Surrogate: Nitrobenzene-d5-surr			*2.48*	*ug/L*	*2.00*		*124*	*31.2-136*		
Surrogate: Phenol-d5-surr			*4.18*	*ug/L*	*4.00*		*105*	*28.9-155*		
Surrogate: p-Terphenyl-d14-surr		*S*	*4.16*	*ug/L*	*2.00*		*208*	*37.6-117*		
Blank (BHG0031-BLK2)					Prepared: 7/1/2024 Analyzed: 7/5/2024					
3,3'-Dichlorobenzidine	<5.00	U	5.00	ug/L						
Benzidine	<50.0	U	50.0	ug/L						
Surrogate: 2-Fluorobiphenyl-surr			*0.983*	*ug/L*	*2.00*		*49.2*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.11*	*ug/L*	*2.00*		*55.3*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.18*	*ug/L*	*2.00*		*59.0*	*37.6-117*		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
Blank (BHG0031-BLK3)				Prepared: 7/1/2024 Analyzed: 7/12/2024						
Surrogate: 2-Fluorobiphenyl-surr			*1.22*	*ug/L*	*2.00*		*61.2*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.73*	*ug/L*	*2.00*		*86.7*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr		*S*	*2.78*	*ug/L*	*2.00*		*139*	*37.6-117*		
Blank (BHG0031-BLK4)				Prepared: 7/1/2024 Analyzed: 7/12/2024						
3,3'-Dichlorobenzidine	<5.00	U	5.00	ug/L						
Benzidine	<50.0	U	50.0	ug/L						
Surrogate: 2-Fluorobiphenyl-surr			*1.05*	*ug/L*	*2.00*		*52.4*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.17*	*ug/L*	*2.00*		*58.5*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr		*S*	*2.40*	*ug/L*	*2.00*		*120*	*37.6-117*		
Blank (BHG0031-BLK5)				Prepared: 7/1/2024 Analyzed: 7/16/2024						
Surrogate: 2-Fluorobiphenyl-surr			*1.38*	*ug/L*	*2.00*		*69.0*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.58*	*ug/L*	*2.00*		*79.2*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr		*S*	*3.29*	*ug/L*	*2.00*		*165*	*37.6-117*		
LCS (BHG0031-BS1)				Prepared: 7/1/2024 Analyzed: 7/5/2024						
3,3'-Dichlorobenzidine	39.5		4.00	ug/L	50.0		78.9	0-262		
Benzidine	<16.0	U	16.0	ug/L	50.0			0-131		
Surrogate: 2-Fluorobiphenyl-surr			*1.30*	*ug/L*	*2.00*		*64.8*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.53*	*ug/L*	*2.00*		*76.5*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.13*	*ug/L*	*2.00*		*56.3*	*37.6-117*		
LCS (BHG0031-BS2)				Prepared: 7/1/2024 Analyzed: 7/2/2024						
2-Methylphenol	4.08		1.10	ug/L	4.00		102	60-140		
1,2,4,5-Tetrachlorobenzene	1.75		0.300	ug/L	2.00		87.4	60-140		
1,2,4-Trichlorobenzene	1.70		0.300	ug/L	2.00		85.2	44-142		
1,2-Diphenylhydrazine	1.87		0.750	ug/L	2.00		93.3	60-140		
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methy	2.00		0.400	ug/L	2.00		100	60-140		
2,4,5-Trichlorophenol	4.10		0.700	ug/L	4.00		103	60-140		
2,4,6-Trichlorophenol	4.10		1.20	ug/L	4.00		102	37-144		
2,4-Dichlorophenol	4.30		0.800	ug/L	4.00		107	39-135		
2,4-Dimethylphenol	4.41		0.900	ug/L	4.00		110	32-120		
2,4-Dinitrophenol	10.6		8.60	ug/L	10.0		106	0-191		
2,4-Dinitrotoluene (2,4-DNT)	2.20		0.200	ug/L	2.00		110	39-139		
2,6-Dinitrotoluene (2,6-DNT)	2.90		1.80	ug/L	2.00		145	50-158		
2-Chloronaphthalene	1.93		0.400	ug/L	2.00		96.6	60-120		
2-Chlorophenol	2.85		0.500	ug/L	4.00		71.3	23-134		
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylph	4.27		1.60	ug/L	4.00		107	0-181		
2-Nitrophenol	4.03		0.700	ug/L	4.00		101	29-182		
3,4-Methylphenol	6.98		1.40	ug/L	8.00		87.2	60-140		
4-Bromophenyl phenyl ether (BDE-3)	1.81		0.300	ug/L	2.00		90.7	53-127		
4-Chloro-3-methylphenol	4.48		0.700	ug/L	4.00		112	22-147		
4-Chlorophenyl phenylether	1.96		0.700	ug/L	2.00		97.8	25-158		
4-Nitrophenol	12.1		7.20	ug/L	10.0		121	0-132		

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Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
LCS (BHG0031-BS2)					Prepared: 7/1/2024 Analyzed: 7/2/2024					
Acenaphthene	2.01		0.300	ug/L	2.00		101	47-145		
Acenaphthylene	1.81		0.200	ug/L	2.00		90.4	33-145		
Anthracene	1.89		0.200	ug/L	2.00		94.6	27-133		
Benzo(a)anthracene	2.21		0.300	ug/L	2.00		110	33-143		
Benzo(a)pyrene	2.00		0.500	ug/L	2.00		100	17-163		
benzo(b&k)fluoranthene	4.21		0.400	ug/L	4.00		105	60-140		
Benzo(g,h,i)perylene	1.73		0.400	ug/L	2.00		86.6	0-219		
bis(2-Chloroethoxy)methane	2.23		0.400	ug/L	2.00		112	33-184		
bis(2-Chloroethyl) ether	2.20		0.600	ug/L	2.00		110	12-158		
Bis(2-ethylhexyl)phthalate	2.83		1.50	ug/L	2.00		141	8-158		
Butyl benzyl phthalate	2.06		0.400	ug/L	2.00		103	0-152		
Chrysene	2.09		0.200	ug/L	2.00		105	17-168		
Dibenzo(a,h)anthracene	2.03		0.500	ug/L	2.00		101	0-227		
Diethyl phthalate	2.58	J1	0.500	ug/L	2.00		129	0-120		
Dimethyl phthalate	2.40		0.300	ug/L	2.00		120	0-120		
Di-n-butyl phthalate	1.81		1.60	ug/L	2.00		90.5	1-120		
Di-n-octyl phthalate	2.20		0.500	ug/L	2.00		110	4-146		
Fluoranthene	2.11		0.300	ug/L	2.00		105	26-137		
Fluorene	2.09		0.200	ug/L	2.00		104	59-121		
Hexachlorobenzene	1.68		0.200	ug/L	2.00		83.9	0-152		
Hexachlorobutadiene	1.42		0.300	ug/L	2.00		71.1	24-120		
Hexachlorocyclopentadiene	1.40		0.750	ug/L	2.00		70.1	60-140		
Hexachloroethane	1.61		0.200	ug/L	2.00		80.4	40-120		
Hexachlorophene	4.07		1.10	ug/L	4.00		102	60-140		
Indeno(1,2,3-cd) pyrene	1.94		0.400	ug/L	2.00		97.2	0-171		
Isophorone	2.01		0.300	ug/L	2.00		101	21-196		
Naphthalene	1.99		0.300	ug/L	2.00		99.3	21-133		
Nitrobenzene	2.19		0.400	ug/L	2.00		109	35-180		
n-Nitrosodiethylamine	1.74		0.500	ug/L	2.00		87.2	60-140		
n-Nitrosodimethylamine	3.05	U	3.80	ug/L	10.0		30.5	4.18-37.2		
n-Nitroso-di-n-butylamine	<5.70	U	5.70	ug/L	2.00			60-140		
n-Nitrosodi-n-propylamine	2.23		1.40	ug/L	2.00		112	0-230		
n-Nitrosodiphenylamine	0.740	J1	0.200	ug/L	2.00		37.0	60-140		
Pentachlorobenzene	1.67		0.200	ug/L	2.00		83.3	60-140		
Pentachlorophenol	4.19		1.40	ug/L	4.00		105	14-176		
Phenanthrene	1.91		0.300	ug/L	2.00		95.4	54-120		
Phenol, Total	4.11		1.50	ug/L	4.00		103	5-120		
Pyrene	1.85		0.300	ug/L	2.00		92.7	52-120		
Pyridine	<13.3	U	13.3	ug/L	10.0			0-137		
Surrogate: 2,4,6-Tribromophenol-surr			*4.32*	*ug/L*	*4.00*		*108*	*33.6-139*		
Surrogate: 2-Fluorobiphenyl-surr			*1.77*	*ug/L*	*2.00*		*88.7*	*32.2-138*		
Surrogate: 2-Fluorophenol-surr			*4.33*	*ug/L*	*4.00*		*108*	*32.7-137*		
Surrogate: Nitrobenzene-d5-surr			*2.00*	*ug/L*	*2.00*		*99.8*	*31.2-136*		
Surrogate: Phenol-d5-surr			*4.22*	*ug/L*	*4.00*		*106*	*28.9-155*		
Surrogate: p-Terphenyl-d14-surr			*1.95*	*ug/L*	*2.00*		*97.5*	*37.6-117*		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
LCS (BHG0031-BS3)					Prepared: 7/1/2024 Analyzed: 7/12/2024					
Surrogate: 2-Fluorobiphenyl-surr			*1.08*	*ug/L*	*2.00*		*53.8*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.39*	*ug/L*	*2.00*		*69.7*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.32*	*ug/L*	*2.00*		*65.8*	*37.6-117*		
LCS (BHG0031-BS4)					Prepared: 7/1/2024 Analyzed: 7/12/2024					
3,3'-Dichlorobenzidine	25.9		4.00	ug/L	50.0		51.8	0-262		
Benzidine	<16.0	U	16.0	ug/L	50.0			0-131		
Surrogate: 2-Fluorobiphenyl-surr			*0.947*	*ug/L*	*2.00*		*47.4*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.04*	*ug/L*	*2.00*		*51.9*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.09*	*ug/L*	*2.00*		*54.6*	*37.6-117*		
LCS (BHG0031-BS5)					Prepared: 7/1/2024 Analyzed: 7/16/2024					
Surrogate: 2-Fluorobiphenyl-surr			*1.14*	*ug/L*	*2.00*		*57.0*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.26*	*ug/L*	*2.00*		*62.9*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.48*	*ug/L*	*2.00*		*73.9*	*37.6-117*		
LCS Dup (BHG0031-BSD1)					Prepared: 7/1/2024 Analyzed: 7/5/2024					
3,3'-Dichlorobenzidine	33.4		5.00	ug/L	50.0		66.8	0-262	16.6	108
Benzidine	<50.0	U	50.0	ug/L	50.0			0-131	200	40
Surrogate: 2-Fluorobiphenyl-surr			*1.10*	*ug/L*	*2.00*		*54.9*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.12*	*ug/L*	*2.00*		*56.2*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.27*	*ug/L*	*2.00*		*63.4*	*37.6-117*		
LCS Dup (BHG0031-BSD2)					Prepared: 7/1/2024 Analyzed: 7/2/2024					
2-Methylphenol	3.98		1.10	ug/L	4.00		99.6	60-140	2.28	40
1,2,4,5-Tetrachlorobenzene	1.74		0.300	ug/L	2.00		87.1	60-140	0.262	40
1,2,4-Trichlorobenzene	1.41		0.300	ug/L	2.00		70.4	44-142	18.9	50
1,2-Diphenylhydrazine	1.85		0.750	ug/L	2.00		92.5	60-140	0.878	40
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methy	1.81		0.400	ug/L	2.00		90.4	60-140	10.2	40
2,4,5-Trichlorophenol	4.19		0.700	ug/L	4.00		105	60-140	2.08	40
2,4,6-Trichlorophenol	4.17		1.20	ug/L	4.00		104	37-144	1.90	58
2,4-Dichlorophenol	4.06		0.800	ug/L	4.00		102	39-135	5.57	50
2,4-Dimethylphenol	4.34		0.900	ug/L	4.00		108	32-120	1.75	58
2,4-Dinitrophenol	10.9		8.60	ug/L	10.0		109	0-191	3.01	132
2,4-Dinitrotoluene (2,4-DNT)	2.25		0.200	ug/L	2.00		112	39-139	2.07	42
2,6-Dinitrotoluene (2,6-DNT)	2.53		1.80	ug/L	2.00		127	50-158	13.5	48
2-Chloronaphthalene	1.76		0.400	ug/L	2.00		88.1	60-120	9.28	24
2-Chlorophenol	2.11		0.500	ug/L	4.00		52.8	23-134	29.8	61
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylph	4.30		1.60	ug/L	4.00		108	0-181	0.773	203
2-Nitrophenol	3.93		0.700	ug/L	4.00		98.2	29-182	2.64	55
3,4-Methylphenol	7.27		1.40	ug/L	8.00		90.8	60-140	4.02	40
4-Bromophenyl phenyl ether (BDE-3)	1.60		0.300	ug/L	2.00		80.1	53-127	12.4	43
4-Chloro-3-methylphenol	4.09		0.700	ug/L	4.00		102	22-147	9.07	73
4-Chlorophenyl phenylether	1.88		0.700	ug/L	2.00		94.0	25-158	3.97	61
4-Nitrophenol	11.8		7.20	ug/L	10.0		118	0-132	2.07	131

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
LCS Dup (BHG0031-BSD2)					Prepared: 7/1/2024 Analyzed: 7/2/2024					
Acenaphthene	1.87		0.300	ug/L	2.00		93.4	47-145	7.54	48
Acenaphthylene	1.77		0.200	ug/L	2.00		88.3	33-145	2.44	74
Anthracene	1.82		0.200	ug/L	2.00		91.1	27-133	3.75	66
Benzo(a)anthracene	2.07		0.300	ug/L	2.00		104	33-143	6.38	53
Benzo(a)pyrene	2.04		0.500	ug/L	2.00		102	17-163	1.71	72
benzo(b&k)fluoranthene	3.99		0.400	ug/L	4.00		99.9	60-140	5.23	40
Benzo(g,h,i)perylene	1.78		0.400	ug/L	2.00		89.0	0-219	2.81	97
bis(2-Chloroethoxy)methane	2.20		0.400	ug/L	2.00		110	33-184	1.48	54
bis(2-Chloroethyl) ether	2.48		0.600	ug/L	2.00		124	12-158	12.2	108
Bis(2-ethylhexyl)phthalate	2.79		1.50	ug/L	2.00		140	8-158	1.33	82
Butyl benzyl phthalate	1.93		0.400	ug/L	2.00		96.4	0-152	6.82	60
Chrysene	2.11		0.200	ug/L	2.00		105	17-168	0.610	87
Dibenzo(a,h)anthracene	2.05		0.500	ug/L	2.00		102	0-227	0.805	126
Diethyl phthalate	2.47	J1	0.500	ug/L	2.00		124	0-120	4.42	100
Dimethyl phthalate	2.22		0.300	ug/L	2.00		111	0-120	7.98	183
Di-n-butyl phthalate	1.79		1.60	ug/L	2.00		89.5	1-120	1.05	47
Di-n-octyl phthalate	2.06		0.500	ug/L	2.00		103	4-146	6.55	69
Fluoranthene	2.12		0.300	ug/L	2.00		106	26-137	0.414	66
Fluorene	2.00		0.200	ug/L	2.00		100	59-121	4.27	38
Hexachlorobenzene	1.48		0.200	ug/L	2.00		73.8	0-152	12.9	55
Hexachlorobutadiene	1.34		0.300	ug/L	2.00		66.9	24-120	6.05	62
Hexachlorocyclopentadiene	1.40		0.750	ug/L	2.00		69.9	60-140	0.302	40
Hexachloroethane	1.19		0.200	ug/L	2.00		59.5	40-120	29.8	52
Hexachlorophene	4.14		1.10	ug/L	4.00		103	60-140	1.56	40
Indeno(1,2,3-cd) pyrene	1.90		0.400	ug/L	2.00		95.0	0-171	2.29	99
Isophorone	1.95		0.300	ug/L	2.00		97.7	21-196	2.88	93
Naphthalene	1.74		0.300	ug/L	2.00		86.9	21-133	13.3	65
Nitrobenzene	2.03		0.400	ug/L	2.00		101	35-180	7.58	62
n-Nitrosodiethylamine	1.78		0.500	ug/L	2.00		89.0	60-140	2.01	40
n-Nitrosodimethylamine	2.87	U	3.80	ug/L	10.0		28.7	4.18-37.2	6.17	40
n-Nitroso-di-n-butylamine	<5.70	U	5.70	ug/L	2.00			60-140	200	40
n-Nitrosodi-n-propylamine	2.12		1.40	ug/L	2.00		106	0-230	5.35	87
n-Nitrosodiphenylamine	0.669	J1	0.200	ug/L	2.00		33.4	60-140	10.1	40
Pentachlorobenzene	1.61		0.200	ug/L	2.00		80.7	60-140	3.23	40
Pentachlorophenol	4.15		1.40	ug/L	4.00		104	14-176	0.949	86
Phenanthrene	1.89		0.300	ug/L	2.00		94.5	54-120	0.980	39
Phenol, Total	4.53		1.50	ug/L	4.00		113	5-120	9.80	64
Pyrene	1.83		0.300	ug/L	2.00		91.3	52-120	1.52	49
Pyridine	<13.3	U	13.3	ug/L	10.0			0-137		40
Surrogate: 2,4,6-Tribromophenol-surr			*4.30*	*ug/L*	*4.00*		*107*	*33.6-139*		
Surrogate: 2-Fluorobiphenyl-surr			*1.73*	*ug/L*	*2.00*		*86.5*	*32.2-138*		
Surrogate: 2-Fluorophenol-surr			*4.27*	*ug/L*	*4.00*		*107*	*32.7-137*		
Surrogate: Nitrobenzene-d5-surr			*1.81*	*ug/L*	*2.00*		*90.3*	*31.2-136*		
Surrogate: Phenol-d5-surr			*3.96*	*ug/L*	*4.00*		*98.9*	*28.9-155*		
Surrogate: p-Terphenyl-d14-surr			*2.06*	*ug/L*	*2.00*		*103*	*37.6-117*		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
LCS Dup (BHG0031-BSD3)					Prepared: 7/1/2024 Analyzed: 7/12/2024					
Surrogate: 2-Fluorobiphenyl-surr			*1.02*	*ug/L*	*2.00*		*51.1*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.31*	*ug/L*	*2.00*		*65.5*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.24*	*ug/L*	*2.00*		*62.2*	*37.6-117*		
LCS Dup (BHG0031-BSD4)					Prepared: 7/1/2024 Analyzed: 7/12/2024					
3,3'-Dichlorobenzidine	23.7		5.00	ug/L	50.0		47.5	0-262	8.65	108
Benzidine	<50.0	U	50.0	ug/L	50.0			0-131	200	40
Surrogate: 2-Fluorobiphenyl-surr			*0.854*	*ug/L*	*2.00*		*42.7*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*0.962*	*ug/L*	*2.00*		*48.1*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*0.975*	*ug/L*	*2.00*		*48.7*	*37.6-117*		
LCS Dup (BHG0031-BSD5)					Prepared: 7/1/2024 Analyzed: 7/16/2024					
Surrogate: 2-Fluorobiphenyl-surr			*1.07*	*ug/L*	*2.00*		*53.3*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.24*	*ug/L*	*2.00*		*62.1*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.31*	*ug/L*	*2.00*		*65.7*	*37.6-117*		
Matrix Spike (BHG0031-MS1)		**Source: 24F3396-02**			Prepared: 7/1/2024 Analyzed: 7/3/2024					
2-Methylphenol	4.14		1.10	ug/L	4.00	<1.10	103	60-140		
1,2,4,5-Tetrachlorobenzene	1.94		0.300	ug/L	2.00	<0.300	97.0	60-140		
1,2,4-Trichlorobenzene	1.64		0.300	ug/L	2.00	<0.300	82.1	44-142		
1,2-Diphenylhydrazine	1.36		0.750	ug/L	2.00	<0.750	68.0	60-140		
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methy	2.07		0.400	ug/L	2.00	<0.400	103	60-140		
2,4,5-Trichlorophenol	4.12		0.700	ug/L	4.00	<0.700	103	60-140		
2,4,6-Trichlorophenol	4.67		1.20	ug/L	4.00	0.499	104	37-144		
2,4-Dichlorophenol	4.71		0.800	ug/L	4.00	<0.800	118	39-135		
2,4-Dimethylphenol	4.66		0.900	ug/L	4.00	<0.900	116	32-120		
2,4-Dinitrophenol	13.4		8.60	ug/L	10.0	<8.60	134	0-191		
2,4-Dinitrotoluene (2,4-DNT)	2.67		0.200	ug/L	2.00	<0.200	133	39-139		
2,6-Dinitrotoluene (2,6-DNT)	3.16		1.80	ug/L	2.00	0.847	115	50-158		
2-Chloronaphthalene	1.70		0.400	ug/L	2.00	<0.400	84.8	60-120		
2-Chlorophenol	2.06		0.500	ug/L	4.00	<0.500	51.4	23-134		
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylph	5.19		1.60	ug/L	4.00	<1.60	130	0-181		
2-Nitrophenol	4.78		0.700	ug/L	4.00	<0.700	120	29-182		
3,4-Methylphenol	7.93		1.40	ug/L	8.00	1.42	81.4	60-140		
4-Bromophenyl phenyl ether (BDE-3)	2.24		0.300	ug/L	2.00	<0.300	112	53-127		
4-Chloro-3-methylphenol	4.81		0.700	ug/L	4.00	<0.700	120	22-147		
4-Chlorophenyl phenylether	1.92		0.700	ug/L	2.00	<0.700	95.9	25-158		
4-Nitrophenol	12.4		7.20	ug/L	10.0	<7.20	124	0-132		
Acenaphthene	1.78		0.300	ug/L	2.00	<0.300	88.8	47-145		
Acenaphthylene	1.78		0.200	ug/L	2.00	<0.200	88.9	33-145		
Anthracene	1.98		0.200	ug/L	2.00	<0.200	98.9	27-133		
Benzo(a)anthracene	1.88		0.300	ug/L	2.00	<0.300	94.0	33-143		
Benzo(a)pyrene	1.81		0.500	ug/L	2.00	<0.500	90.7	17-163		
benzo(b&k)fluoranthene	3.59		0.400	ug/L	4.00	<0.400	89.7	60-140		
Benzo(g,h,i)perylene	1.73		0.400	ug/L	2.00	<0.400	86.3	0-219		

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Veolia Water
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Freeport, TX 77541

Reported:
09/23/2024 10:47

Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
Matrix Spike (BHG0031-MS1)	**Source: 24F3396-02**				Prepared: 7/1/2024 Analyzed: 7/3/2024					
bis(2-Chloroethoxy)methane	2.39		0.400	ug/L	2.00	<0.400	120	33-184		
bis(2-Chloroethyl) ether	2.78		0.600	ug/L	2.00	<0.600	139	12-158		
Bis(2-ethylhexyl)phthalate	3.24		1.50	ug/L	2.00	0.944	115	8-158		
Butyl benzyl phthalate	1.76		0.400	ug/L	2.00	0.128	81.8	0-152		
Chrysene	1.94		0.200	ug/L	2.00	<0.200	97.0	17-168		
Dibenzo(a,h)anthracene	2.01		0.500	ug/L	2.00	<0.500	101	0-227		
Diethyl phthalate	2.36		0.500	ug/L	2.00	0.358	100	0-120		
Dimethyl phthalate	2.37		0.300	ug/L	2.00	<0.300	119	0-120		
Di-n-butyl phthalate	1.18	U	1.60	ug/L	2.00	<1.60	59.0	1-120		
Di-n-octyl phthalate	1.67		0.500	ug/L	2.00	<0.500	83.5	4-146		
Fluoranthene	1.87		0.300	ug/L	2.00	<0.300	93.3	26-137		
Fluorene	1.97		0.200	ug/L	2.00	<0.200	98.5	59-121		
Hexachlorobenzene	1.82		0.200	ug/L	2.00	<0.200	91.2	0-152		
Hexachlorobutadiene	1.48		0.300	ug/L	2.00	<0.300	74.1	24-120		
Hexachlorocyclopentadiene	4.12	J1, L	0.750	ug/L	2.00	<0.750	206	60-140		
Hexachloroethane	1.53		0.200	ug/L	2.00	<0.200	76.3	40-120		
Hexachlorophene	5.11		1.10	ug/L	4.00	<1.10	128	60-140		
Indeno(1,2,3-cd) pyrene	1.82		0.400	ug/L	2.00	<0.400	90.8	0-171		
Isophorone	2.57		0.300	ug/L	2.00	0.375	109	21-196		
Naphthalene	2.16		0.300	ug/L	2.00	<0.300	108	21-133		
Nitrobenzene	2.90		0.400	ug/L	2.00	<0.400	145	35-180		
n-Nitrosodiethylamine	1.79		0.500	ug/L	2.00	<0.500	89.7	60-140		
n-Nitrosodimethylamine	27.7	L	3.80	ug/L	10.0	26.1	16.6	4.18-91		
n-Nitroso-di-n-butylamine	<5.70	U	5.70	ug/L	2.00	<5.70		60-140		
n-Nitrosodi-n-propylamine	2.29		1.40	ug/L	2.00	<1.40	114	0-230		
n-Nitrosodiphenylamine	<0.200	J1, U	0.200	ug/L	2.00	<0.200		60-140		
Pentachlorobenzene	1.65		0.200	ug/L	2.00	<0.200	82.4	60-140		
Pentachlorophenol	5.07		1.40	ug/L	4.00	<1.40	127	14-176		
Phenanthrene	1.98		0.300	ug/L	2.00	0.0820	94.9	54-120		
Phenol, Total	6.57	J1	1.50	ug/L	4.00	1.47	128	5-120		
Pyrene	1.60		0.300	ug/L	2.00	<0.300	80.2	52-120		
Pyridine	<13.3	J1, U	13.3	ug/L	10.0	<13.3		60-140		
Surrogate: 2,4,6-Tribromophenol-surr			*4.33*	*ug/L*	*4.00*		*108*	*33.6-139*		
Surrogate: 2-Fluorobiphenyl-surr			*1.87*	*ug/L*	*2.00*		*93.3*	*32.2-138*		
Surrogate: 2-Fluorophenol-surr			*4.69*	*ug/L*	*4.00*		*117*	*32.7-137*		
Surrogate: Nitrobenzene-d5-surr			*2.67*	*ug/L*	*2.00*		*134*	*31.2-136*		
Surrogate: Phenol-d5-surr			*4.43*	*ug/L*	*4.00*		*111*	*28.9-155*		
Surrogate: p-Terphenyl-d14-surr			*1.93*	*ug/L*	*2.00*		*96.3*	*37.6-117*		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
Matrix Spike (BHG0031-MS2)	**Source: 24F3396-02RE2**				Prepared: 7/1/2024 Analyzed: 7/12/2024					
Surrogate: 2-Fluorobiphenyl-surr			*1.10*	*ug/L*	*2.00*		*54.9*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.61*	*ug/L*	*2.00*		*80.3*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.12*	*ug/L*	*2.00*		*56.1*	*37.6-117*		
Matrix Spike (BHG0031-MS3)	**Source: 24F3396-02RE4**				Prepared: 7/1/2024 Analyzed: 7/16/2024					
Surrogate: 2-Fluorobiphenyl-surr			*0.866*	*ug/L*	*2.00*		*43.3*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.12*	*ug/L*	*2.00*		*56.2*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*0.873*	*ug/L*	*2.00*		*43.6*	*37.6-117*		
Matrix Spike (BHG0031-MS4)	**Source: 24F3396-02RE5**				Prepared: 7/1/2024 Analyzed: 7/30/2024					
3,4-Methylphenol	6.20	U	10.0	ug/L	8.00	<10.0	77.5	60-140		
Hexachlorocyclopentadiene	3.84	J1, U	10.0	ug/L	2.00	2.91	46.5	60-140		
n-Nitrosodimethylamine	18.6	J1, U	50.0	ug/L	10.0	25.5	NR	4.18-91		
Surrogate: 2,4,6-Tribromophenol-surr			*2.75*	*ug/L*	*4.00*		*68.8*	*33.6-139*		
Surrogate: 2-Fluorobiphenyl-surr			*1.45*	*ug/L*	*2.00*		*72.4*	*32.2-138*		
Surrogate: 2-Fluorophenol-surr			*2.91*	*ug/L*	*4.00*		*72.7*	*32.7-137*		
Surrogate: Nitrobenzene-d5-surr			*1.44*	*ug/L*	*2.00*		*71.9*	*31.2-136*		
Surrogate: Phenol-d5-surr			*2.86*	*ug/L*	*4.00*		*71.6*	*28.9-155*		
Surrogate: p-Terphenyl-d14-surr			*1.22*	*ug/L*	*2.00*		*60.9*	*37.6-117*		
Matrix Spike Dup (BHG0031-MSD1)	**Source: 24F3396-02**				Prepared: 7/1/2024 Analyzed: 7/3/2024					
2-Methylphenol	3.98		1.10	ug/L	4.00	<1.10	99.4	60-140	3.94	40
1,2,4,5-Tetrachlorobenzene	1.97		0.300	ug/L	2.00	<0.300	98.4	60-140	1.43	40
1,2,4-Trichlorobenzene	1.55		0.300	ug/L	2.00	<0.300	77.5	44-142	5.82	50
1,2-Diphenylhydrazine	1.40		0.750	ug/L	2.00	<0.750	70.1	60-140	3.06	40
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methy	2.02		0.400	ug/L	2.00	<0.400	101	60-140	2.30	40
2,4,5-Trichlorophenol	4.36		0.700	ug/L	4.00	<0.700	109	60-140	5.46	40
2,4,6-Trichlorophenol	5.30		1.20	ug/L	4.00	0.499	120	37-144	12.7	58
2,4-Dichlorophenol	4.82		0.800	ug/L	4.00	<0.800	120	39-135	2.30	50
2,4-Dimethylphenol	4.70		0.900	ug/L	4.00	<0.900	117	32-120	0.926	58
2,4-Dinitrophenol	13.9		8.60	ug/L	10.0	<8.60	139	0-191	4.06	132
2,4-Dinitrotoluene (2,4-DNT)	2.62		0.200	ug/L	2.00	<0.200	131	39-139	1.65	42
2,6-Dinitrotoluene (2,6-DNT)	3.60		1.80	ug/L	2.00	0.847	138	50-158	13.0	48
2-Chloronaphthalene	1.79		0.400	ug/L	2.00	<0.400	89.3	60-120	5.20	24
2-Chlorophenol	2.01		0.500	ug/L	4.00	<0.500	50.3	23-134	2.16	61
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylph	5.35		1.60	ug/L	4.00	<1.60	134	0-181	3.10	203
2-Nitrophenol	4.76		0.700	ug/L	4.00	<0.700	119	29-182	0.543	55
3,4-Methylphenol	8.41	L	1.40	ug/L	8.00	1.42	87.4	60-140	5.88	40
4-Bromophenyl phenyl ether (BDE-3)	2.26		0.300	ug/L	2.00	<0.300	113	53-127	1.07	43
4-Chloro-3-methylphenol	4.93		0.700	ug/L	4.00	<0.700	123	22-147	2.50	73
4-Chlorophenyl phenylether	2.08		0.700	ug/L	2.00	<0.700	104	25-158	8.33	61
4-Nitrophenol	12.4		7.20	ug/L	10.0	<7.20	124	0-132	0.366	131
Acenaphthene	1.94		0.300	ug/L	2.00	<0.300	97.2	47-145	9.05	48
Acenaphthylene	1.87		0.200	ug/L	2.00	<0.200	93.6	33-145	5.18	74
Anthracene	2.10		0.200	ug/L	2.00	<0.200	105	27-133	6.18	66

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
Matrix Spike Dup (BHG0031-MSD1)	**Source: 24F3396-02**				Prepared: 7/1/2024 Analyzed: 7/3/2024					
Benzo(a)anthracene	1.94		0.300	ug/L	2.00	<0.300	97.2	33-143	3.40	53
Benzo(a)pyrene	1.90		0.500	ug/L	2.00	<0.500	95.1	17-163	4.72	72
benzo(b&k)fluoranthene	3.84		0.400	ug/L	4.00	<0.400	96.0	60-140	6.70	40
Benzo(g,h,i)perylene	1.78		0.400	ug/L	2.00	<0.400	88.9	0-219	3.00	97
bis(2-Chloroethoxy)methane	2.54		0.400	ug/L	2.00	<0.400	127	33-184	5.90	54
bis(2-Chloroethyl) ether	2.60		0.600	ug/L	2.00	<0.600	130	12-158	6.77	108
Bis(2-ethylhexyl)phthalate	2.52		1.50	ug/L	2.00	0.944	78.8	8-158	25.0	82
Butyl benzyl phthalate	1.85		0.400	ug/L	2.00	0.128	85.9	0-152	4.63	60
Chrysene	2.06		0.200	ug/L	2.00	<0.200	103	17-168	6.07	87
Dibenzo(a,h)anthracene	2.14		0.500	ug/L	2.00	<0.500	107	0-227	6.18	126
Diethyl phthalate	2.27		0.500	ug/L	2.00	0.358	95.5	0-120	3.92	100
Dimethyl phthalate	2.34		0.300	ug/L	2.00	<0.300	117	0-120	1.40	183
Di-n-butyl phthalate	1.18	U	1.60	ug/L	2.00	<1.60	58.8	1-120	0.278	47
Di-n-octyl phthalate	1.76		0.500	ug/L	2.00	<0.500	88.0	4-146	5.26	69
Fluoranthene	2.10		0.300	ug/L	2.00	<0.300	105	26-137	11.8	66
Fluorene	2.11		0.200	ug/L	2.00	<0.200	105	59-121	6.71	38
Hexachlorobenzene	1.97		0.200	ug/L	2.00	<0.200	98.3	0-152	7.47	55
Hexachlorobutadiene	1.44		0.300	ug/L	2.00	<0.300	72.1	24-120	2.80	62
Hexachlorocyclopentadiene	4.84	J1, L	0.750	ug/L	2.00	<0.750	242	60-140	16.0	40
Hexachloroethane	1.50		0.200	ug/L	2.00	<0.200	74.9	40-120	1.89	52
Hexachlorophene	4.67		1.10	ug/L	4.00	<1.10	117	60-140	9.07	40
Indeno(1,2,3-cd) pyrene	1.92		0.400	ug/L	2.00	<0.400	96.2	0-171	5.70	99
Isophorone	2.56		0.300	ug/L	2.00	0.375	109	21-196	0.0798	93
Naphthalene	2.14		0.300	ug/L	2.00	<0.300	107	21-133	1.26	65
Nitrobenzene	3.01		0.400	ug/L	2.00	<0.400	151	35-180	3.74	62
n-Nitrosodiethylamine	1.86		0.500	ug/L	2.00	<0.500	92.8	60-140	3.32	40
n-Nitrosodimethylamine	31.9	L	3.80	ug/L	10.0	26.1	58.4	4.18-91	14.0	40
n-Nitroso-di-n-butylamine	1.94	U	5.70	ug/L	2.00	<5.70	96.9	60-140	200	40
n-Nitrosodi-n-propylamine	2.29		1.40	ug/L	2.00	<1.40	115	0-230	0.210	87
n-Nitrosodiphenylamine	<0.200	J1, U	0.200	ug/L	2.00	<0.200		60-140		40
Pentachlorobenzene	1.80		0.200	ug/L	2.00	<0.200	90.0	60-140	8.83	40
Pentachlorophenol	5.33		1.40	ug/L	4.00	<1.40	133	14-176	4.97	86
Phenanthrene	2.13		0.300	ug/L	2.00	0.0820	102	54-120	7.24	39
Phenol, Total	5.87		1.50	ug/L	4.00	1.47	110	5-120	11.2	64
Pyrene	1.72		0.300	ug/L	2.00	<0.300	86.2	52-120	7.25	49
Pyridine	<13.3	J1, U	13.3	ug/L	10.0	<13.3		60-140		40
Surrogate: 2,4,6-Tribromophenol-surr			*4.57*	*ug/L*	*4.00*		*114*	*33.6-139*		
Surrogate: 2-Fluorobiphenyl-surr			*1.88*	*ug/L*	*2.00*		*93.8*	*32.2-138*		
Surrogate: 2-Fluorophenol-surr			*4.68*	*ug/L*	*4.00*		*117*	*32.7-137*		
Surrogate: Nitrobenzene-d5-surr			*2.11*	*ug/L*	*2.00*		*105*	*31.2-136*		
Surrogate: Phenol-d5-surr			*4.71*	*ug/L*	*4.00*		*118*	*28.9-155*		
Surrogate: p-Terphenyl-d14-surr			*2.06*	*ug/L*	*2.00*		*103*	*37.6-117*		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0031 - EPA 625 LLE (Continued)										
Matrix Spike Dup (BHG0031-MSD2)			**Source: 24F3396-02RE2**		Prepared: 7/1/2024 Analyzed: 7/12/2024					
Surrogate: 2-Fluorobiphenyl-surr			*1.13*	*ug/L*	*2.00*		*56.7*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.64*	*ug/L*	*2.00*		*81.9*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.17*	*ug/L*	*2.00*		*58.6*	*37.6-117*		
Matrix Spike Dup (BHG0031-MSD3)			**Source: 24F3396-02RE4**		Prepared: 7/1/2024 Analyzed: 7/16/2024					
Surrogate: 2-Fluorobiphenyl-surr			*0.964*	*ug/L*	*2.00*		*48.2*	*32.2-138*		
Surrogate: Nitrobenzene-d5-surr			*1.18*	*ug/L*	*2.00*		*58.9*	*31.2-136*		
Surrogate: p-Terphenyl-d14-surr			*1.21*	*ug/L*	*2.00*		*60.4*	*37.6-117*		
Matrix Spike Dup (BHG0031-MSD4)			**Source: 24F3396-02RE5**		Prepared: 7/1/2024 Analyzed: 7/30/2024					
3,4-Methylphenol	6.65	U	10.0	ug/L	8.00	<10.0	83.2	60-140	7.05	40
Hexachlorocyclopentadiene	5.28	U	10.0	ug/L	2.00	2.91	119	60-140	31.6	40
n-Nitrosodimethylamine	32.5	J1, U	50.0	ug/L	10.0	25.5	69.1	4.18-91	54.2	40
Surrogate: 2,4,6-Tribromophenol-surr			*3.01*	*ug/L*	*4.00*		*75.3*	*33.6-139*		
Surrogate: 2-Fluorobiphenyl-surr			*1.47*	*ug/L*	*2.00*		*73.6*	*32.2-138*		
Surrogate: 2-Fluorophenol-surr			*3.48*	*ug/L*	*4.00*		*87.0*	*32.7-137*		
Surrogate: Nitrobenzene-d5-surr			*1.76*	*ug/L*	*2.00*		*87.9*	*31.2-136*		
Surrogate: Phenol-d5-surr			*3.12*	*ug/L*	*4.00*		*78.0*	*28.9-155*		
Surrogate: p-Terphenyl-d14-surr			*1.19*	*ug/L*	*2.00*		*59.4*	*37.6-117*		

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Veolia Water
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Quality Control
(Continued)

Organics by GC

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0406 - EPA 1657 SPE										
Blank (BHG0406-BLK1)					Prepared: 7/3/2024 Analyzed: 7/17/2024					
Azinphos-methyl (Guthion)	<0.101	U	0.101	ug/L						
Chlorpyrifos	<0.0503	U	0.0503	ug/L						
Demeton	<0.201	U	0.201	ug/L						
Diazinon	<0.503	U	0.503	ug/L						
Malathion	<0.101	U	0.101	ug/L						
Parathion, ethyl	<0.101	U	0.101	ug/L						
Surrogate: Tributyl Phosphate-surr	*S*		*0.0226*	*ug/L*	*0.101*		*22.5*	*40-120*		
Surrogate: Triphenyl Phosphate-surr	*S*		*0.0112*	*ug/L*	*0.101*		*11.2*	*40-120*		
LCS (BHG0406-BS1)					Prepared: 7/3/2024 Analyzed: 7/17/2024					
Azinphos-methyl (Guthion)	0.0649	J1, U	0.100	ug/L	0.250		25.9	37-150		
Chlorpyrifos	0.188		0.0501	ug/L	0.250		74.9	48-150		
Demeton	0.141	U	0.200	ug/L	0.250		56.2	16-150		
Diazinon	0.238	U	0.501	ug/L	0.250		95.1	50-150		
Malathion	0.206		0.100	ug/L	0.250		82.1	50-150		
Parathion, ethyl	0.317		0.100	ug/L	0.250		126	50-150		
Surrogate: Tributyl Phosphate-surr	*S*		*0.163*	*ug/L*	*0.100*		*162*	*40-120*		
Surrogate: Triphenyl Phosphate-surr			*0.0537*	*ug/L*	*0.100*		*53.6*	*40-120*		
LCS Dup (BHG0406-BSD1)					Prepared: 7/3/2024 Analyzed: 7/17/2024					
Azinphos-methyl (Guthion)	0.0676	J1, U	0.100	ug/L	0.249		27.1	37-150	3.99	40
Chlorpyrifos	0.164		0.0500	ug/L	0.249		65.7	48-150	13.6	40
Demeton	0.102	U	0.200	ug/L	0.249		40.8	16-150	32.0	40
Diazinon	0.214	U	0.500	ug/L	0.249		85.7	50-150	10.8	40
Malathion	0.190		0.100	ug/L	0.249		76.0	50-150	8.02	40
Parathion, ethyl	0.236		0.100	ug/L	0.249		94.4	50-150	29.4	40
Surrogate: Tributyl Phosphate-surr			*0.117*	*ug/L*	*0.0998*		*117*	*40-120*		
Surrogate: Triphenyl Phosphate-surr			*0.0444*	*ug/L*	*0.0998*		*44.5*	*40-120*		

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0406 - EPA 1657 SPE (Continued)										
Matrix Spike (BHG0406-MS1)	**Source: 24F3396-02**				Prepared: 7/3/2024 Analyzed: 7/17/2024					
Azinphos-methyl (Guthion)	<0.100	J1, U	0.100	ug/L	0.250	<0.100		25-150		
Chlorpyrifos	0.0297	J1, U	0.0500	ug/L	0.250	<0.0500	11.9	25-150		
Demeton	<0.200	J1, U	0.200	ug/L	0.250	<0.200		25-150		
Diazinon	<0.500	J1, U	0.500	ug/L	0.250	<0.500		25-150		
Malathion	<0.100	J1, U	0.100	ug/L	0.250	<0.100		25-150		
Parathion, ethyl	0.0225	J1, U	0.100	ug/L	0.250	<0.100	9.03	25-150		
Surrogate: Tributyl Phosphate-surr			*0.120*	*ug/L*	*0.0998*		*120*	*40-120*		
Surrogate: Triphenyl Phosphate-surr		*S*	*0.0103*	*ug/L*	*0.0998*		*10.3*	*40-120*		
Matrix Spike Dup (BHG0406-MSD1)	**Source: 24F3396-02**				Prepared: 7/3/2024 Analyzed: 7/17/2024					
Azinphos-methyl (Guthion)	<0.100	J1, U	0.100	ug/L	0.250	<0.100		25-150		40
Chlorpyrifos	0.0546	J1	0.0500	ug/L	0.250	<0.0500	21.8	25-150	58.9	40
Demeton	<0.200	J1, U	0.200	ug/L	0.250	<0.200		25-150		40
Diazinon	0.0692	J1, U	0.500	ug/L	0.250	<0.500	27.7	25-150	200	40
Malathion	0.0479	J1, U	0.100	ug/L	0.250	<0.100	19.1	25-150	200	40
Parathion, ethyl	0.0826	J1, U	0.100	ug/L	0.250	<0.100	33.0	25-150	114	40
Surrogate: Tributyl Phosphate-surr		*S*	*0.260*	*ug/L*	*0.100*		*259*	*40-120*		
Surrogate: Triphenyl Phosphate-surr		*S*	*0.0263*	*ug/L*	*0.100*		*26.3*	*40-120*		
Batch: BHG0419 - SM 6640 B										
MB HERB (BHG0419-BLK1)					Prepared: 7/3/2024 Analyzed: 7/18/2024					
2,4-D	<0.700	U	0.700	ug/L						
Silvex (2,4,5-TP)	<0.300	U	0.300	ug/L						
Surrogate: DCAA-surr		*S*	*15.7*	*ug/L*	*24.9*		*63.1*	*70-130*		
BS HERB (BHG0419-BS1)					Prepared: 7/3/2024 Analyzed: 7/18/2024					
2,4-D	4.92		0.700	ug/L	5.14		95.6	70-130		
Silvex (2,4,5-TP)	4.98		0.300	ug/L	4.99		99.7	70-130		
Surrogate: DCAA-surr			*21.6*	*ug/L*	*25.0*		*86.5*	*70-130*		

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0419 - SM 6640 B (Continued)										
BSD HERB (BHG0419-BSD1)					Prepared: 7/3/2024 Analyzed: 7/18/2024					
2,4-D	4.74		0.700	ug/L	5.11		92.6	70-130	3.67	30
Silvex (2,4,5-TP)	4.83		0.300	ug/L	4.97		97.2	70-130	3.09	30
Surrogate: DCAA-surr			*20.6*	*ug/L*	*24.8*		*83.1*	*70-130*		
24G1325-01 MS (BHG0419-MS1)		**Source: 24G1325-01**			Prepared: 7/3/2024 Analyzed: 7/18/2024					
2,4-D	5.33		0.700	ug/L	5.10	<0.700	105	70-130		
Silvex (2,4,5-TP)	5.35		0.300	ug/L	4.95	<0.300	108	70-130		
Surrogate: DCAA-surr			*24.8*	*ug/L*	*24.8*		*100*	*70-130*		
24G1325-01 MSD (BHG0419-MSD1)		**Source: 24G1325-01**			Prepared: 7/3/2024 Analyzed: 7/18/2024					
2,4-D	5.09		0.700	ug/L	5.09	<0.700	100	70-130	4.69	30
Silvex (2,4,5-TP)	5.08		0.300	ug/L	4.94	<0.300	103	70-130	5.00	30
Surrogate: DCAA-surr			*28.8*	*ug/L*	*24.7*		*117*	*70-130*		

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Quality Control
(Continued)

Metals, Total

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHF3940 - EPA 200.8										
Blank (BHF3940-BLK1)					Prepared: 6/28/2024 Analyzed: 7/2/2024					
Aluminum	<5.00	U	5.00	ug/L						
Copper	<2.00	U	2.00	ug/L						
Nickel	<2.00	U	2.00	ug/L						
Selenium	<5.00	U	5.00	ug/L						
Zinc	<5.00	U	5.00	ug/L						
Blank (BHF3940-BLK2)					Prepared: 6/28/2024 Analyzed: 7/2/2024					
Arsenic	<0.500	U	0.500	ug/L						
Blank (BHF3940-BLK3)					Prepared: 6/28/2024 Analyzed: 7/2/2024					
Antimony	<5.00	U	5.00	ug/L						
Barium	<6.00	U	6.00	ug/L						
Chromium	<3.00	U	3.00	ug/L						
Thallium	<1.25	U	1.25	ug/L						
Blank (BHF3940-BLK4)					Prepared: 6/28/2024 Analyzed: 7/9/2024					
Beryllium	<0.500	U	0.500	ug/L						
Cadmium	<1.00	U	1.00	ug/L						
Lead	<0.500	U	0.500	ug/L						
Silver	<0.500	U	0.500	ug/L						
LCS (BHF3940-BS1)					Prepared: 6/28/2024 Analyzed: 7/2/2024					
Aluminum	269		5.00	ug/L	250		108	85-115		
Copper	113		2.00	ug/L	100		113	85-115		
Nickel	112		2.00	ug/L	100		112	85-115		
Selenium	188		5.00	ug/L	200		93.8	85-115		
Zinc	220		5.00	ug/L	200		110	85-115		

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Quality Control
(Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHF3940 - EPA 200.8 (Continued)										
LCS (BHF3940-BS2)					Prepared: 6/28/2024 Analyzed: 7/2/2024					
Arsenic	52.2		0.500	ug/L	50.0		104	85-115		
LCS (BHF3940-BS3)					Prepared: 6/28/2024 Analyzed: 7/2/2024					
Antimony	111		1.00	ug/L	100		111	85-115		
Barium	306		6.00	ug/L	300		102	85-115		
Chromium	291		3.00	ug/L	300		97.0	85-115		
Thallium	50.9		1.25	ug/L	50.0		102	85-115		
LCS (BHF3940-BS4)					Prepared: 6/28/2024 Analyzed: 7/9/2024					
Beryllium	21.4		0.200	ug/L	20.0		107	85-115		
Cadmium	109		1.00	ug/L	100		109	85-115		
Lead	52.2		0.500	ug/L	50.0		104	85-115		
Silver	50.8		0.500	ug/L	50.0		102	85-115		
Duplicate (BHF3940-DUP1)		**Source: 24F4915-02**			Prepared: 6/28/2024 Analyzed: 7/2/2024					
Aluminum	9.14		5.00	ug/L		8.91			2.55	20
Copper	3.23	J1	2.00	ug/L		6.21			63.2	20
Nickel	3.35		2.00	ug/L		3.35			0.119	20
Selenium	0.648	U	5.00	ug/L		0.623			3.93	20
Zinc	33.8		5.00	ug/L		37.0			9.15	20
Duplicate (BHF3940-DUP2)		**Source: 24F4915-02**			Prepared: 6/28/2024 Analyzed: 7/2/2024					
Arsenic	5.72		0.500	ug/L		5.98			4.53	20
Duplicate (BHF3940-DUP3)		**Source: 24F4915-02**			Prepared: 6/28/2024 Analyzed: 7/2/2024					
Antimony	0.829	U	1.00	ug/L		0.850			2.50	20
Barium	87.3		6.00	ug/L		84.4			3.35	20
Chromium	1.47	U	3.00	ug/L		1.32			10.8	20
Thallium	<1.25	U	1.25	ug/L		<1.25				20

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Quality Control
(Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHF3940 - EPA 200.8 (Continued)										
Duplicate (BHF3940-DUP4)	**Source: 24F4915-02**				Prepared: 6/28/2024 Analyzed: 7/9/2024					
Beryllium	<0.200	U	0.200	ug/L		<0.200				20
Cadmium	0.594	U	1.00	ug/L		0.572			3.77	20
Lead	0.0490	U	0.500	ug/L		0.0520			5.94	20
Silver	<0.500	U	0.500	ug/L		<0.500				20
Matrix Spike (BHF3940-MS1)	**Source: 24F4915-02**				Prepared: 6/28/2024 Analyzed: 7/2/2024					
Aluminum	232		5.00	ug/L	250	8.91	89.2	75-125		
Copper	93.5		2.00	ug/L	100	6.21	87.3	75-125		
Nickel	92.0		2.00	ug/L	100	3.35	88.6	75-125		
Selenium	168		5.00	ug/L	200	0.623	83.6	75-125		
Zinc	212		5.00	ug/L	200	37.0	87.4	75-125		
Matrix Spike (BHF3940-MS2)	**Source: 24F4915-02**				Prepared: 6/28/2024 Analyzed: 7/2/2024					
Arsenic	53.0		0.500	ug/L	50.0	5.98	94.0	75-125		
Matrix Spike (BHF3940-MS3)	**Source: 24F4915-02**				Prepared: 6/28/2024 Analyzed: 7/2/2024					
Antimony	92.2		1.00	ug/L	100	0.850	91.3	75-125		
Barium	373		6.00	ug/L	300	84.4	96.1	75-125		
Chromium	268		3.00	ug/L	300	1.32	88.8	75-125		
Thallium	46.1		1.25	ug/L	50.0	<1.25	92.2	75-125		
Matrix Spike (BHF3940-MS4)	**Source: 24F4915-02**				Prepared: 6/28/2024 Analyzed: 7/9/2024					
Beryllium	21.4		0.200	ug/L	20.0	<0.200	107	75-125		
Cadmium	99.3		1.00	ug/L	100	0.572	98.8	75-125		
Lead	52.0		0.500	ug/L	50.0	0.0520	104	75-125		
Silver	49.1		0.500	ug/L	50.0	<0.500	98.3	75-125		

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Quality Control
(Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH3453 - EPA 1631										
Blank (BHH3453-BLK1)					Prepared: 8/26/2024 Analyzed: 8/27/2024					
Mercury	<0.00500	U	0.00500	ug/L						
Blank (BHH3453-BLK2)					Prepared: 8/26/2024 Analyzed: 8/27/2024					
Mercury	<0.00500	U	0.00500	ug/L						
Blank (BHH3453-BLK3)					Prepared: 8/26/2024 Analyzed: 8/27/2024					
Mercury	<0.00500	U	0.00500	ug/L						
Matrix Spike (BHH3453-MS1)		**Source: 24G1576-02**			Prepared: 8/26/2024 Analyzed: 8/27/2024					
Mercury	0.0325	J1	0.00526	ug/L	0.0526	<0.00526	61.7	71-125		
Matrix Spike (BHH3453-MS2)		**Source: 24H0748-01**			Prepared: 8/26/2024 Analyzed: 8/27/2024					
Mercury	0.0262	J1	0.00526	ug/L	0.0526	<0.00526	49.7	71-125		
Matrix Spike Dup (BHH3453-MSD1)		**Source: 24G1576-02**			Prepared: 8/26/2024 Analyzed: 8/27/2024					
Mercury	0.0298	J1	0.00526	ug/L	0.0526	<0.00526	56.7	71-125	8.49	24
Matrix Spike Dup (BHH3453-MSD2)		**Source: 24H0748-01**			Prepared: 8/26/2024 Analyzed: 8/27/2024					
Mercury	0.0239	J1	0.00526	ug/L	0.0526	<0.00526	45.4	71-125	8.96	24

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Quality Control
(Continued)

Metals, Dissolved

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH2911 - Cr VI										
Matrix Spike (BHH2911-MS1)		**Source: 24H3988-02**			Prepared & Analyzed: 8/22/2024					
Chromium (VI)	255		3.00	ug/L	250	7.58	99.1	70-130		
Matrix Spike Dup (BHH2911-MSD1)		**Source: 24H3988-02**			Prepared & Analyzed: 8/22/2024					
Chromium (VI)	255		3.00	ug/L	250	7.58	99.2	70-130	0.0626	20
Batch: BHH3712 - Cr VI										
Matrix Spike (BHH3712-MS1)		**Source: 24H4788-01**			Prepared & Analyzed: 9/3/2024					
Chromium (VI)	249		3.00	ug/L	250	14.5	94.0	70-130		
Matrix Spike Dup (BHH3712-MSD1)		**Source: 24H4788-01**			Prepared & Analyzed: 9/3/2024					
Chromium (VI)	250		3.00	ug/L	250	14.5	94.4	70-130	0.384	20

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Quality Control
(Continued)

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHF3919 - CBOD-5210										
LCS (BHF3919-BS1)					Prepared: 6/27/2024 Analyzed: 7/2/2024					
Carbonaceous BOD (CBOD)	200			mg/L	198		101	85-115		
Duplicate (BHF3919-DUP1)			**Source: 24F4924-04**		Prepared: 6/27/2024 Analyzed: 7/2/2024					
Carbonaceous BOD (CBOD)	<2.40	U	2.40	mg/L		<2.40				40
Duplicate (BHF3919-DUP2)			**Source: 24F0050-04**		Prepared: 6/27/2024 Analyzed: 7/2/2024					
Carbonaceous BOD (CBOD)	86.7		50.0	mg/L		73.6			16.3	20
Batch: BHF3943 - TDS										
Blank (BHF3943-BLK1)					Prepared: 6/28/2024 Analyzed: 7/1/2024					
Residue-filterable (TDS)	<10.0	U	10.0	mg/L						
LCS (BHF3943-BS1)					Prepared: 6/28/2024 Analyzed: 7/1/2024					
Residue-filterable (TDS)	146		10.0	mg/L	150		97.3	90-110		
Duplicate (BHF3943-DUP1)			**Source: 24F0112-02**		Prepared: 6/28/2024 Analyzed: 7/1/2024					
Residue-filterable (TDS)	718		10.0	mg/L		734			2.20	10
Batch: BHF3952 - TSS										
Blank (BHF3952-BLK1)					Prepared: 6/28/2024 Analyzed: 7/1/2024					
Residue-nonfilterable (TSS)	<1.00	U	1.00	mg/L						
LCS (BHF3952-BS1)					Prepared: 6/28/2024 Analyzed: 7/1/2024					
Residue-nonfilterable (TSS)	99.0		1.00	mg/L	100		99.0	85-115		

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Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHF3952 - TSS (Continued)										
Duplicate (BHF3952-DUP1)		**Source: 24F0273-01**			Prepared: 6/28/2024 Analyzed: 7/1/2024					
Residue-nonfilterable (TSS)	1.05	J1	1.00	mg/L		<1.00			200	10
Duplicate (BHF3952-DUP2)		**Source: 24F4983-02**			Prepared: 6/28/2024 Analyzed: 7/1/2024					
Residue-nonfilterable (TSS)	2.53		1.00	mg/L		2.32			8.70	10
Batch: BHF3955 - Alkalinity										
Blank (BHF3955-BLK1)					Prepared & Analyzed: 6/28/2024					
Conductivity	<2.00	U	2.00	umhos/cm @ 25 °C						
LCS (BHF3955-BS1)					Prepared & Analyzed: 6/28/2024					
Conductivity	1430			umhos/cm @ 25 °C	1410		101	90-110		
QCS (BHF3955-BS2)					Prepared & Analyzed: 6/28/2024					
Conductivity	511			umhos/cm @ 25 °C	500		102	90-110		
LCS (BHF3955-BS3)					Prepared & Analyzed: 6/28/2024					
Conductivity	54000		2.00	umhos/cm @ 25 °C				90-110		
LCS (BHF3955-BS4)					Prepared & Analyzed: 6/28/2024					
Conductivity	229		2.00	umhos/cm @ 25 °C				90-110		
Alkalinity as CaCO3	106			mg/L	100		106	90-110		
Duplicate (BHF3955-DUP1)		**Source: 24F5077-01**			Prepared & Analyzed: 6/28/2024					
Alkalinity as CaCO3	60.6		10.0	mg/L		62.7			3.45	15
Conductivity	844		2.00	umhos/cm @ 25 °C		850			0.708	15

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Reported:
09/23/2024 10:47

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHF3955 - Alkalinity (Continued)										
Duplicate (BHF3955-DUP2)	**Source: 24F4424-01**				Prepared & Analyzed: 6/28/2024					
Alkalinity as CaCO3	186		10.0	mg/L		185			0.841	15
Conductivity	533		2.00	umhos/cm @ 25 °C		526			1.32	15
Batch: BHF4087 - EPA 300.0										
Duplicate (BHF4087-DUP1)	**Source: 24F5069-01**				Prepared & Analyzed: 6/28/2024					
Sulfate	44.4		1.00	mg/L		44.4			0.0225	15
Nitrite as N	921		50.0	ug/L		916			0.544	15
Chloride	288		5.00	mg/L		292			1.29	15
Fluoride	0.330		0.250	mg/L		0.325			1.53	15
Nitrate as N	113		100	ug/L		108			4.52	15
Duplicate (BHF4087-DUP2)	**Source: 24E6647-10RE1**				Prepared & Analyzed: 6/28/2024					
Nitrate as N	102		100	ug/L		95.0			7.11	15
Sulfate	63.3		1.00	mg/L		63.3			0.0205	15
Chloride	66.5		10.0	mg/L		66.1			0.528	15
Fluoride	0.221	U	0.250	mg/L		0.224			1.35	15
Nitrite as N	<50.0	U	50.0	ug/L		<50.0				15
MRL Check (BHF4087-MRL1)					Prepared & Analyzed: 6/28/2024					
Nitrite as N	48.0	U	50.0	ug/L	50.0		96.0	50-150		
Sulfate	1.17		1.00	mg/L	1.00		117	50-150		
Fluoride	0.283		0.250	mg/L	0.250		113	50-150		
Nitrate as N	114		100	ug/L	100		114	50-150		
Chloride	1.06		1.00	mg/L	1.00		106	50-150		
Matrix Spike (BHF4087-MS1)	**Source: 24F5069-01**				Prepared & Analyzed: 6/28/2024					
Nitrate as N	2280		111	ug/L	2220	108	97.9	80-120		
Fluoride	5.54		0.278	mg/L	5.56	0.325	93.8	80-120		
Nitrite as N	2010		55.6	ug/L	1110	916	98.5	80-120		
Sulfate	69.7		1.11	mg/L	22.2	44.4	114	80-120		
Chloride	258	J1	5.56	mg/L	11.1	292	NR	80-120		

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09/23/2024 10:47

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHF4087 - EPA 300.0 (Continued)										
Matrix Spike (BHF4087-MS2)		**Source: 24E6647-10RE1**			Prepared & Analyzed: 6/28/2024					
Sulfate	77.3	J1	11.1	mg/L	22.2	63.3	62.9	80-120		
Nitrate as N	2390		111	ug/L	2220	95.0	103	80-120		
Nitrite as N	1180		55.6	ug/L	1110	<55.6	106	80-120		
Fluoride	5.45		0.278	mg/L	5.56	0.224	94.0	80-120		
Chloride	81.7	J1	11.1	mg/L	11.1	66.1	140	80-120		
Batch: BHG0077 - TKN T										
Blank (BHG0077-BLK1)					Prepared: 7/1/2024 Analyzed: 7/2/2024					
Total Kjeldahl Nitrogen - (TKN)	<1.00	U	1.00	mg/L						
LCS (BHG0077-BS1)					Prepared: 7/1/2024 Analyzed: 7/2/2024					
Total Kjeldahl Nitrogen - (TKN)	1.90		1.00	mg/L	1.97		96.5	85-115		
Duplicate (BHG0077-DUP1)		**Source: 24F2695-01**			Prepared: 7/1/2024 Analyzed: 7/2/2024					
Total Kjeldahl Nitrogen - (TKN)	56.9	J1	1.00	mg/L		42.2			29.6	20
Matrix Spike (BHG0077-MS1)		**Source: 24F2695-01**			Prepared: 7/1/2024 Analyzed: 7/2/2024					
Total Kjeldahl Nitrogen - (TKN)	58.9	J1	1.00	mg/L	4.00	42.2	417	85-115		
Batch: BHG0085 - NH3-N SEAL-350.1										
Matrix Spike (BHG0085-MS1)		**Source: 24F5176-02**			Prepared & Analyzed: 7/2/2024					
Ammonia as N	0.214		0.0400	mg/L	0.200	0.0200	97.0	90-110		
Matrix Spike (BHG0085-MS2)		**Source: 24F5105-01**			Prepared & Analyzed: 7/2/2024					
Ammonia as N	0.278		0.0400	mg/L	0.200	0.0860	96.0	90-110		

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09/23/2024 10:47

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0085 - NH3-N SEAL-350.1 (Continued)										
Matrix Spike Dup (BHG0085-MSD1)			**Source: 24F5176-02**		Prepared & Analyzed: 7/2/2024					
Ammonia as N	0.214		0.0400	mg/L	0.200	0.0200	97.0	90-110	0.00	20
Matrix Spike Dup (BHG0085-MSD2)			**Source: 24F5105-01**		Prepared & Analyzed: 7/2/2024					
Ammonia as N	0.283		0.0400	mg/L	0.200	0.0860	98.5	90-110	1.78	20
Batch: BHG0180 - Phosphorus EPA 365.1										
LCS (BHG0180-BS1)					Prepared: 7/9/2024 Analyzed: 7/10/2024					
Total Phosphorus	0.240		0.0100	mg/L	0.250		96.0	90-110		
Matrix Spike (BHG0180-MS1)			**Source: 24F2427-01**		Prepared: 7/9/2024 Analyzed: 7/10/2024					
Total Phosphorus	4.81		0.200	mg/L	5.00	<0.200	96.2	80-120		
Matrix Spike (BHG0180-MS2)			**Source: 24F4931-01**		Prepared: 7/9/2024 Analyzed: 7/10/2024					
Total Phosphorus	10.1		0.200	mg/L	5.00	5.08	101	80-120		
Matrix Spike Dup (BHG0180-MSD1)			**Source: 24F2427-01**		Prepared: 7/9/2024 Analyzed: 7/10/2024					
Total Phosphorus	4.70		0.200	mg/L	5.00	<0.200	94.0	80-120	2.27	20
Matrix Spike Dup (BHG0180-MSD2)			**Source: 24F4931-01**		Prepared: 7/9/2024 Analyzed: 7/10/2024					
Total Phosphorus	9.80		0.200	mg/L	5.00	5.08	94.3	80-120	3.47	20
Batch: BHG0858 - CN-4500										
Blank (BHG0858-BLK1)					Prepared & Analyzed: 7/8/2024					
Total Cyanide	<10.0	U	10.0	ug/L						

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Reported:
09/23/2024 10:47

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHG0858 - CN-4500 (Continued)										
LCS (BHG0858-BS1)					Prepared & Analyzed: 7/8/2024					
Total Cyanide	201		10.0	ug/L	200		100	90-110		
QCS (BHG0858-BS2)					Prepared & Analyzed: 7/8/2024					
Total Cyanide	200		10.0	ug/L	200		99.8	90-110		
MRL Check (BHG0858-MRL1)					Prepared & Analyzed: 7/8/2024					
Total Cyanide	12.1		10.0	ug/L	10.0		121	50-150		
Matrix Spike (BHG0858-MS1)		**Source: 24F3396-01**			Prepared & Analyzed: 7/8/2024					
Total Cyanide	210		10.2	ug/L	204	8.74	98.8	80-120		
Matrix Spike Dup (BHG0858-MSD1)		**Source: 24F3396-01**			Prepared & Analyzed: 7/8/2024					
Total Cyanide	206		10.2	ug/L	204	8.74	96.9	80-120	1.86	20
Batch: BHG0933 - EPA 1664										
Blank (BHG0933-BLK1)					Prepared & Analyzed: 7/9/2024					
n-Hexane Extractable Material (O&G)	<5.00	U	5.00	mg/L						
LCS (BHG0933-BS1)					Prepared & Analyzed: 7/9/2024					
n-Hexane Extractable Material (O&G)	39.6		5.00	mg/L	40.0		99.0	77.5-114.5		
LCS Dup (BHG0933-BSD1)					Prepared & Analyzed: 7/9/2024					
n-Hexane Extractable Material (O&G)	37.7		5.00	mg/L	40.0		94.3	77.5-114.5	4.89	20
Matrix Spike (BHG0933-MS1)		**Source: 24G1340-01**			Prepared & Analyzed: 7/9/2024					
n-Hexane Extractable Material (O&G)	42.7	J1	5.00	mg/L	160	7.80	21.8	77.5-114.5		

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Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Sample Condition Checklist

Work Order: 24F3394

Check Points	
No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted

Work Order: 24F3395

Check Points	
No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted

Work Order: 24F3396

Check Points	
No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted

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Veolia Water
931 E Floodgate Rd
Freeport, TX 77541

Reported:
09/23/2024 10:47

Work Order: 24G1575

Check Points

No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted

Work Order: 24G1576

Check Points

No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted

Work Order: 24G2868

Check Points

No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted

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Veolia Water
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Reported:
09/23/2024 10:47

Work Order: 24H4177

Check Points

No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted

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Veolia Water
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Freeport, TX 77541

Reported:
09/23/2024 10:47

Term and Qualifier Definitions

Item	Definition
CQ	needs a higher dilution due to interferences
J1	Estimated value - The reported value is outside the established quality control criteria for accuracy and/or precision.
L	Off scale high - The concentration of the analyte exceeds the linear range.
S	The surrogate recovery was outside the established laboratory recovery limit.
U	Non-detected compound.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated
*	A = Accredited, N = Not Accredited or Accreditation not available
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
MDL	Method Detection Limit - The minimum concentration of a substance (or analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. Based on standard deviation of replicate spiked samples take through all steps of the analytical procedure following 40 CFR Part 136 Appendix B.
SDL	Sample Detection Limit - The minimum concentration of a substance (analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The SDL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MDL = SDL.
MRL	Method Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The MRL is at or above the lowest calibration standard.
LRL	Laboratory Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The LRL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MRL = LRL.

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CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
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TCEQ TX-C24-00185

24F3394

Lab PM : Aundra Noe	**Project Name :** Veolia Water - Outfall 001 3 Part Grab Composite 1
Veolia Water Jerry Meeks Jr. 931 E Floodgate Rd Freeport, TX 77541 Phone: (979) 233-4281	**Project Comments:** DAY OF GRAB 1 - TAKE GLASS RECEPTACLE & PLACE IN SAMPLER COORDINATE GRAB 1 & GRAB 2 COLLECTION TIMES WITH OTHER FIELD TECH IF NEEDED

Schedule Commen

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation		Field Results
24F3394-01	18 Mohm DI	A Glass 4oz Boston Round	~~6/19/2024~~ 6/26/24 PEIO	AQ Grab	A Glass 4oz Boston Round	LL Hg-1631	BrCl	
24F3394-02	Outfall 001 3 Part Grab	A Glass VOA 40mL HCl pH<2 B Glass VOA 40mL HCl pH<2 C Glass VOA 40mL HCl pH<2 D Glass VOA 40mL E Glass VOA 40mL F Glass VOA 40mL G Glass 4oz Boston Round	~~6/19/2024~~ 6/26/24 OBIO	AQ Grab	A Glass VOA 40mL HCl pH<2 B Glass VOA 40mL HCl pH<2 C Glass VOA 40mL HCl pH<2 D Glass VOA 40mL E Glass VOA 40mL F Glass VOA 40mL G Glass 4oz Boston Round	LL Hg-1631 Composite VOA	BrCl 4°C	

Field Remarks:

Lab Preservation: (Circle and Write ID Below) H2SO4 HNO3 NaOH Other: _____

Sampler (Signature)	Relinquished By: (Signature)	Date/Time 6-27-24	Received By: (Signature)	Date/Time 6-27-24/14:00
Print Name: Jerry Meeks JR	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation: Veolia	Relinquished To Lab By: (Signature)	Date/Time 6-27-24/16:00	Received for Laboratory By: (Signature)	Date/Time 6/27/24/16:00

Custody Seal : Yes / No — COC Labels Agree: Yes / No — Appropriate Volume: Yes / No — Received on Ice: Yes / No — Temperature: _____ °C

Container Intact : Yes / No — Appropriate Containers: Yes / No — Coolers Intact: Yes / No — Samples Accepted: Yes / No — Thermometer ID: _____

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24F3395

Lab PM : Aundra Noe	**Project Name :** Veolia Water - Outfall 001 3 Part Grab Composite 2
Veolia Water Jerry Meeks Jr. 931 E Floodgate Rd Freeport, TX 77541 Phone: (979) 233-4281	**Project Comments:** COORDINATE GRAB 1 & GRAB 2 COLLECTION TIMES WITH OTHER FIELD TECH IF NEEDED

Schedule Comment:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
24F3395-01	18 Mohm DI	[redacted]	~~6/19/2024~~ 6/26/24 OEIC	AQ Grab	A Glass 4oz Boston Round	LL Hg-1631 BrCl	
24F3395-02	Outfall 001 3 Part Grab	[redacted]	~~6/19/2024~~ 6/26/24 OEIC	AQ Grab	A Glass VOA 40mL HCl pH<2 B Glass VOA 40mL HCl pH<2 C Glass VOA 40mL HCl pH<2 D Glass VOA 40mL E Glass VOA 40mL F Glass VOA 40mL G Glass 4oz Boston Round	LL Hg-1631 BrCl Composite VOA 4°C	

Field Remarks:

Lab Preservation: (Circle and Write ID Below) H2SO4 HNO3 NaOH Other: _____

Sampler (Signature)	Relinquished By: (Signature)	Date/Time 6/27/24	Received By: (Signature)	Date/Time 6.27.24/14:00
Print Name: Jerry Meeks Jr	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation: Veolia	Relinquished To Lab By: (Signature)	Date/Time 6.27.24/16:00	Received for Laboratory By: (Signature)	Date/Time 6/27/24/16:00

Custody Seal : Yes / No — COC Labels Agree: Yes / No — Appropriate Volume: Yes / No — Received on Ice: Yes / No — Temperature: _____ °C

Container Intact : Yes / No — Appropriate Containers: Yes / No — Coolers Intact: Yes / No — Samples Accepted: Yes / No — Thermometer ID: _____

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24F3396

Lab PM : Aundra Noe	Project Name : Veolia Water - Permit Renewal	Schedule Comment
Veolia Water Jerry Meeks Jr. 931 E Floodgate Rd Freeport, TX 77541 Phone: (979) 233-4281	**Project Comments:** DO reading must be recorded before 9am If CL2 not between 1.0 - 4.0 Call Office Unless Dechlor plant <.1 Mark out Duplicated Outfall samples on the regular chain	

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation		Field Results	
24F3396-01	Outfall 001	[illegible]	~~6/20/2024~~ 6/27/24 0810	AQ Grab	A HDPE 250mL NaOH B HDPE S250mL Na2S2O3 C Glass Wide 1L w/ Teflon-lined Lid D HDPE S250mL Na2S2O3	ENT-ASTMD6503 TC EC-9223 O&G-1664 CN AMEN-4500 CN T-4500	Na2S2O3 <10°C Na2S2O3 <10°C HCl 4°C NaOH 4°C NaOH 4°C	DO Field Flow MGD Field pH Field Total Chlorine Residual WW Field	6.08 0.79 7.34 2.14

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24F3396

Lab PM : Aundra Noe

Project Name : Veolia Water - Permit Renewal

Schedule Comment

Veolia Water
Jerry Meeks Jr.
931 E Floodgate Rd
Freeport, TX 77541
Phone: (979) 233-4281

Project Comments: DO reading must be recorded before 9am If CL2 not between 1.0 - 4.0 Call Office
Unless Dechlor plant <.1
Mark out Duplicated Outfall samples on the regular chain

24F3396-02	Outfall 001 Sampler		~~6/20/2024~~ 6/27/24 0810	AQ 24HR Comp	A HDPE 250mL AAHDPE 1L B Amber Glass 1L w/ Teflon-lined Lid C Amber Glass 1L w/ Teflon-lined Lid D HDPE 1L E PreCleaned HDPE 250mL HNO3 F HDPE 250mL G Glass VOA 60mL Protocol A H Glass VOA 60mL Protocol A I Glass VOA 60mL Protocol A J HDPE 250mL K HDPE 250mL H2SO4 L Amber Glass 250mL w/ Teflon-lined Lid M Amber Glass 250mL w/ Teflon-lined Lid N Amber Glass 1L w/ Teflon-lined Lid O Amber Glass 1L w/ Teflon-lined Lid P Amber Glass 1L w/ Teflon-lined Lid Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid T Amber Glass 1L w/ Teflon-lined Lid U Amber Glass 1L w/ Teflon-lined Lid V Amber Glass 250mL w/ Teflon-lined Lid W Amber Glass 250mL w/ Teflon-lined Lid X HDPE 250mL Y HDPE 250mL H2SO4 Z HDPE 250mL H2SO4	Aluminum ICPMS 200.8 HNO3 Antimony ICPMS 200.8 HNO3 Arsenic ICPMS 200.8 HNO3 Barium ICPMS 200.8 HNO3 Beryllium ICPMS 200.8 HNO3 Cadmium ICPMS 200.8 HNO3 Chromium ICPMS 200.8 HNO3 Copper ICPMS 200.8 HNO3 Lead ICPMS 200.8 HNO3 LPR Metals [Group Analysis] Nickel ICPMS 200.8 HNO3 Selenium ICPMS 200.8 HNO3 Silver ICPMS 200.8 HNO3 Thallium ICPMS 200.8 HNO3 Zinc ICPMS 200.8 HNO3 HERB-6640 4°C Nonylphenol-D7065 4°C OCP-608 4°C OPP-1657 4°C PCB-608 4°C SVOA-625 4°C Sub_CBURP-632 4°C Alkalinity-2320 4°C CBOD-5210 4°C Chloride IC 300.0 4°C Conductivity-2510 4°C Cr III ICPMS [Group Analysis] Cr VI-D 3500 Cr6+Buf 4°C Fluoride IC 300.0 4°C LPR Anions [Group Analysis] NH3-N SEAL-350.1 H2SO4 4°C Nitrate as N IC 300.0 4°C Nitrite as N IC 300.0 4°C ~~Sulfate IC 300.0 4°C~~ TDS-2540 4°C TKN T-4500 C H2SO4 4°C Total Phosphorus-365.1- H2SO4 4°C TSS-2540 4°C	

NWDLS

CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ TX-C24-00185

24F3396

Lab PM : Aundra Noe	**Project Name :** Veolia Water - Permit Renewal
Veolia Water Jerry Meeks Jr. 931 E Floodgate Rd Freeport, TX 77541 Phone: (979) 233-4281	**Project Comments:** DO reading must be recorded before 9am If CL2 not between 1.0 - 4.0 Call Office Unless Dechlor plant <.1 Mark out Duplicated Outfall samples on the regular chain

Schedule Commer

24F3396-03	Outfall 001 3 Part Grab	A Glass VOA 40mL B Glass VOA 40mL C Glass VOA 40mL D Glass VOA 40mL E Glass VOA 40mL F Glass VOA 40mL G Glass 4oz Boston	~~6/20/2024~~ 6/27/24 OEIO	AQ Grab	A Glass VOA 40mL HCl pH<2 B Glass VOA 40mL HCl pH<2 C Glass VOA 40mL HCl pH<2 D Glass VOA 40mL E Glass VOA 40mL F Glass VOA 40mL G Glass 4oz Boston Round	LL Hg-1631 Composite VOA	BrCl 4°C	
24F3396-04	Outfall 001 3 Part Grab C		~~6/20/2024~~ 6/27/24 OEIO	AQ Grab 3-Part Cor		VOA-624	4°C	
24F3396-05	18 Mohm DI	A Glass 4oz Boston	~~6/20/2024~~ 6/27/24 OEIO	AQ Grab	A Glass 4oz Boston Round	LL Hg-1631	BrCl	

Field Remarks:

Lab Preservation: (Circle and Write ID Below) H2SO4 HNO3 NaOH Other:

Sampler (Signature)	Relinquished By: (Signature)	Date/Time 6/27/24	Received By: (Signature)	Date/Time 6.27.24/14:00
Print Name: Jerry Meeks Jr	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation: Veolia	Relinquished To Lab By: (Signature)	Date/Time 6.27.24/16:00	Received for Laboratory By: (Signature)	Date/Time 6/27/24/16:00

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: °C

Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID:

PM Kits

CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ TX-C24-00185

24G1575

Veolia Water Jerry Meeks Jr. 931 E Floodgate Rd Freeport, TX 77541 Phone: (979) 233-4281	**Project Name** : Veolia - Outfall 001 3 Part Grab Composite 1 RC **Project Comments**: **Schedule Comments**:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation		Field Results
24G1575-01	18 Mohm DI		8/15/24 0730	AQ Grab	A Glass 4oz Boston Round	LL Hg-1631	BrCl	
24G1575-02	Outfall 001 3 Part Grab	8/14/24 0830	8/15/24 0810	AQ Grab	A Glass 4oz Boston Round	LL Hg-1631	BrCl	

Field Remarks:

Preservation: (Circle and Write ID) H2SO4 HNO3 NaOH Other: _____

Sampler (Signature)	Relinquished By: (Signature)	Date/Time 8/15/24 1120	Received By: (Signature)		Date/Time 8-15-24/11:20
Print Name: Jerry Meeks Jr	Relinquished By: (Signature)	Date/Time	Received By: (Signature)		Date/Time
Affiliation: Veolia	Relinquished To Lab By: (Signature)	Date/Time 8-15-24/15:00	Received for Laboratory By: (Signature)		Date/Time 8/15/24/1500

Custody Seal : Yes / No
Container Intact : Yes / No
COC Labels Agree: Yes / No
Appropriate Containers: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Temperature: _____ °C
Thermometer ID: _____

wko_NWDLS_COC_noDate_LS version 4: 02/22/2021

Delete Archive Report Reply Reply all Forward Zoom

Re: Missing Field Results 24G1574

Justin Wood

To: Susan Keel; Aundra Noe; Rebecca Rabon

Cc: Angela Martinez

Reply Reply all Forward

Fri 8/16/2024 11:42 AM

Meeks Jr., Jerry <jerry.meeks2@veolia.com>

To: Justin Wood

Fri 8/16/2024 11:40 AM

Some content in this message has been blocked because the sender isn't in your Safe senders list. Trust sender Show blocked content

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

The residual was 3.27 mg/L. Do I need to put it on the chains and email it to you?

Jerry Meeks, Jr.
Freeport Project
Municipal & Commercial Business
VEOLIA NORTH AMERICA

The total chlorine for both chains should be 3.27 per Jerry.

Thank you,

NWDLS
North Water District Laboratory Services, Inc.

Justin Wood
Project Manager

130 South Trade Center Parkway (Conroe, TX 77385

936.213.6878
281.881.9347
justin.wood@nwdls.com
www.nwdls.com

Find us on

HUB

24G1575 24G1577

From: Justin Wood <justin.wood@nwdls.com>
Sent: Friday, August 16, 2024 11:32 AM
To: Susan Keel <susan.keel@nwdls.com>; Aundra Noe <aundra.noe@nwdls.com>; Rebecca Rabon <rebecca.rabon@nwdls.com>
Cc: Angela Martinez <angela.martinez@nwdls.com>
Subject: Re: Missing Field Results 24G1574

Thank you! I will reach out to Jerry now.

Delete Archive Report Reply Reply all Forward Zoom R

Re: Missing Field Results 24G1574

NWDLS North Water District Laboratory Services, Inc.

Justin Wood
Project Manager

130 South Trade Center Parkway (Conroe, TX 77385

936.213.6878
281.881.9347
justin.wood@nwdls.com
www.nwdls.com

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HUB

From: Susan Keel <susan.keel@nwdls.com>
Sent: Friday, August 16, 2024 11:21 AM
To: Justin Wood <justin.wood@nwdls.com>; Aundra Noe <aundra.noe@nwdls.com>; Rebecca Rabon <rebecca.rabon@nwdls.com>
Cc: Angela Martinez <angela.martinez@nwdls.com>
Subject: Re: Missing Field Results 24G1574

Yes, sorry, here's the other scan!

From: Justin Wood <justin.wood@nwdls.com>
Sent: Friday, August 16, 2024 10:58 AM
To: Susan Keel <susan.keel@nwdls.com>; Aundra Noe <aundra.noe@nwdls.com>; Rebecca Rabon <rebecca.rabon@nwdls.com>
Cc: Angela Martinez <angela.martinez@nwdls.com>
Subject: Re: Missing Field Results 24G1574

Can you also send a scan of 24G1577 so that when I email the customer they can see both chains?

Thank you,

NWDLS North Water District Laboratory Services, Inc.

Justin Wood
Project Manager

130 South Trade Center Parkway (Conroe, TX 77385

936.213.6878
281.881.9347
justin.wood@nwdls.com
www.nwdls.com

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HUB

24G1575

24G1577

CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ TX-C24-00185

24G1576

Veolia Water Jerry Meeks Jr. 931 E Floodgate Rd Freeport, TX 77541 Phone: (979) 233-4281	**Project Name** : Veolia - Outfall 001 3 Part Grab Composite 2 RC **Project Comments**: **Schedule Comments**:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation		Field Results
24G1576-01	18 Mohm DI		8/15/24 0730	AQ Grab	A Glass 4oz Boston Round	LL Hg-1631	BrCl	
24G1576-02	Outfall 001 3 Part Grab	8/14/24 0630	8/15/24 0810	AQ Grab	A Glass 4oz Boston Round	LL Hg-1631	BrCl	

Field Remarks:

Preservation: (Circle and Write ID) H2SO4 HNO3 NaOH Other:

Sampler (Signature)	Relinquished By: (Signature)	Date/Time 8/15/24 1120	Received By: (Signature)		Date/Time 8.15.24/1120
Print Name Jerry Meeks Jr	Relinquished By: (Signature)	Date/Time	Received By: (Signature)		Date/Time
Affiliation Veolia	Relinquished To Lab By: (Signature)	Date/Time 8.15.24/15:00	Received for Laboratory By: (Signature) SZK		Date/Time 8/15/24/1500

Custody Seal : Yes / No
Container Intact : Yes / No
COC Labels Agree: Yes / No
Appropriate Containers: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Temperature: °C
Thermometer ID:

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CHAIN OF CUSTODY RECORD

NWDLS
North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ TX-C24-00185

24G2868

Veolia Water Jerry Meeks Jr. 931 E Floodgate Rd Freeport, TX 77541 Phone: (979) 233-4281	**Project Name** : Veolia Water - Permit Renewal Recollect II **Project Comments**:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
24G2868-01	Outfall 001 Sampler	8/14/24 0830	8/15/24 0810	AQ 24HR Comp	A HDPE 250 Cr6+Buf after filtration	Cr VI-D 3500 Cr6+Buf 4°C	

Field Remarks:

Preservation: (Circle and Write ID) H2SO4 HNO3 NaOH Other: _____

Sampler (Signature)	Relinquished By: (Signature)	Date/Time 8/15/24 1120	Received By: (Signature)	Date/Time 8:15:24/11:20
Print Name: Jerry Meeks Jr	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation: Veolia	Relinquished To Lab By: (Signature)	Date/Time 8:15:24/15:00	Received for Laboratory By: (Signature)	Date/Time 8/15/24/1500

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C

Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

wko_NWDLS_COC_noDate_LS version 4: 02/22/2021

CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ TX-C24-00185

24H4177

Veolia Water Jerry Meeks Jr. 931 E Floodgate Rd Freeport, TX 77541 Phone: (979) 233-4281	**Project Name** : Veolia Water - Permit Renewal Recollect II **Project Comments**:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
24H4177-01	Outfall 001 Sampler	8/28/24 0835	8/29/24 0820	AQ 24HR Comp	A HDPE 250 Cr6+Buf after filtration	Cr VI-D 3500 Cr6+Buf 4°C	

Field Remarks:

Preservation: (Circle and Write ID) H2SO4 HNO3 NaOH Other:

Sampler (Signature)	Relinquished By: (Signature)	Date/Time 8/29/24	Received By: (Signature)		Date/Time 8-29-24/11:40
Print Name Jerry Meeks Jr	Relinquished By: (Signature)	Date/Time	Received By: (Signature)		Date/Time
Affiliation Veolia	Relinquished To Lab By: (Signature)	Date/Time 8-29-24/15:20	Received for Laboratory By: (Signature) JLH		Date/Time 1520 8/29/24

Custody Seal : Yes / No
Container Intact : Yes / No
COC Labels Agree: Yes / No
Appropriate Containers: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Temperature: °C
Thermometer ID:

wko_NWDLS_COC_noDate_LS version 4: 02/22/2021

NWDLS
North Water District Laboratory Services, Inc.

SUBCONTRACT ORDER

Sending Laboratory:

North Water District Laboratory Services, Inc.
130 South Trade Center Parkway
Conroe, TX 77385
Phone: 936-321-6060
Fax: 936-321-6061

Project Manager: Aundra Noe

Subcontracted Laboratory:

SPL
2600 Dudley Rd
Kilgore, TX 75662
Phone: (903) 984-0551
Fax:

Work Order: 24F3396

Analysis	Due	Expires	Comments
Sample ID: 24F3396-02	***Waste Water***	***Sampled: 06/27/2024 14:00***	
Sub_CBURP-632	07/11/2024	07/04/2024 14:00	
Analyte(s):			
Carbaryl	Diuron		
Containers Supplied:			

CJmA — Released By — 07.01.24 — Date

UPS — Received By — 07.01.24 — Date

Laboratory Analysis Report

Total Number of Pages: 15

Job ID : 24070217

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
24F3396

Report To :

Client Name: NWDLS
Attn: Aundra Noe
Client Address: 130 S Trade Center Pkwy
City, State, Zip: Conroe, Texas, 77385

P.O.#.: 24F3396
Sample Collected By:
Date Collected: 06/27/24

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
24F3396-02	Waste Water	24070217.01
24F3396-04	Waste Water	24070217.02

Released By: Amanda Shute
Title: Project Manager
Date: 7/10/2024

This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

ab-q210-0321

Date Received : 07/02/2024 11:10

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 24070217

Date: 7/10/2024

General Term Definition

Back-Wt	Back Weight	MQL	Unadjusted Minimum Quantitation Limit
BRL	Below Reporting Limit	Post-Wt	Post Weight
cfu	colony-forming units	ppm	parts per million
Conc.	Concentration	Pre-Wt	Previous Weight
D.F.	Dilution Factor	Q	Qualifier
Front-Wt	Front Weight	RegLimit	Regulatory Limit
J	Estimation. Below calibration range but above MDL	RLU	Relative Light Unit
LCS	Laboratory Check Standard	RPD	Relative Percent Difference
LCSD	Laboratory Check Standard Duplicate	RptLimit	Reporting Limit
LOD	Limit of detection adjusted for %M + DF	SDL	Sample Detection Limit
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit

Qualifier Definition

J	Estimation. Below calibration range but above MDL.
M2	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits due to matrix interference.
S6	Surrogate recovery is outside control limits due to matrix effects.
U	Undetected at SDL (Sample Detection Limit).

LABORATORY TEST RESULTS

Job ID : 24070217 Date 7/10/2024

Client Name: NWDLS
Project Name: 24F3396
Attn: Aundra Noe

Client Sample ID: 24F3396-02
Date Collected: 06/27/24
Time Collected: 14:00
Other Information:

Job Sample ID: 24070217.01
Sample Matrix Waste Water
% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 608.3	Polychlorinated Biphenyls									
	Aroclor 1016	<0.03	ug/L	1.00	0.03	0.0500		U	07/03/24 17:11	MQ
	Aroclor 1221	<0.03	ug/L	1.00	0.03	0.0500		U	07/03/24 17:11	MQ
	Aroclor 1232	<0.03	ug/L	1.00	0.03	0.0500		U	07/03/24 17:11	MQ
	Aroclor 1242	<0.03	ug/L	1.00	0.03	0.0500		U	07/03/24 17:11	MQ
	Aroclor 1248	<0.03	ug/L	1.00	0.03	0.0500		U	07/03/24 17:11	MQ
	Aroclor 1254	<0.03	ug/L	1.00	0.03	0.0500		U	07/03/24 17:11	MQ
	Aroclor 1260	<0.03	ug/L	1.00	0.03	0.0500		U	07/03/24 17:11	MQ
	Total PCBs	<0.03	ug/L	1.00	0.03	0.0500		U	07/03/24 17:11	MQ
	Decachlorobiphenyl(surr)	7.00	%	1.00		35-129		S6	07/03/24 17:11	MQ
	Tetrachloro-m-xylene(surr)	42	%	1.00		27-127			07/03/24 17:11	MQ
EPA 608.3	Organochlorine Pesticides									
	Alpha-chlordane	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	Dicofol[2]	<0.050	ug/L	1.00	0.050	0.050		U	07/09/24 20:02	MQ
	Gamma-chlordane	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	4,4-DDD	<0.002	ug/L	1.00	0.002	0.010		U	07/09/24 20:02	MQ
	4,4-DDE	<0.009	ug/L	1.00	0.009	0.010		U	07/09/24 20:02	MQ
	4,4-DDT	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	a-BHC	<0.003	ug/L	1.00	0.003	0.010		U	07/09/24 20:02	MQ
	Aldrin	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	b-BHC	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	Chlordane	<0.100	ug/L	1.00	0.100	0.100		U	07/09/24 20:02	MQ
	d-BHC	<0.006	ug/L	1.00	0.006	0.010		U	07/09/24 20:02	MQ
	Dieldrin	<0.005	ug/L	1.00	0.005	0.010		U	07/09/24 20:02	MQ
	Endosulfan I	<0.007	ug/L	1.00	0.007	0.010		U	07/09/24 20:02	MQ
	Endosulfan II	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	Endosulfan sulfate	<0.005	ug/L	1.00	0.005	0.010		U	07/09/24 20:02	MQ
	Endrin	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	Endrin aldehyde	<0.003	ug/L	1.00	0.003	0.010		U	07/09/24 20:02	MQ
	g-BHC	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	Heptachlor	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	Heptachlor epoxide	<0.004	ug/L	1.00	0.004	0.010		U	07/09/24 20:02	MQ
	Methoxychlor	<0.003	ug/L	1.00	0.003	0.010		U	07/09/24 20:02	MQ
	Mirex[2]	<0.010	ug/L	1.00	0.010	0.010		U	07/09/24 20:02	MQ
	Toxaphene	<0.100	ug/L	1.00	0.100	0.100		U	07/09/24 20:02	MQ
	Decachlorobiphenyl(surr)	27.8	%	1.00		34-120		S6	07/09/24 20:02	MQ

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24070217

Date 7/10/2024

Client Name: NWDLS

Project Name: 24F3396

Attn: Aundra Noe

Client Sample ID: 24F3396-02
Date Collected: 06/27/24
Time Collected: 14:00
Other Information:

Job Sample ID: 24070217.01
Sample Matrix Waste Water
% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 608.3	Organochlorine Pesticides									
	Tetrachloro-m-xylene(surr)	85.5	%	1.00		24-127			07/09/24 20:02	MQ

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24070217

Date 7/10/2024

Client Name: NWDLS

Attn: Aundra Noe

Project Name: 24F3396

Client Sample ID: 24F3396-04
Date Collected: 06/27/24
Time Collected: 14:00
Other Information:

Job Sample ID: 24070217.02
Sample Matrix Waste Water
% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 624.1	Volatile Organic Compounds									
	1,1,1-Trichloroethane	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,1,2,2-Tetrachloroethane	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,1,2-Trichloroethane	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,1-Dichloroethane	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,1-Dichloroethylene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,2-Dibromoethane	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,2-Dichlorobenzene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,2-Dichloroethane	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,2-Dichloropropane	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,3-Dichlorobenzene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	1,4-Dichlorobenzene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	2-chloroethylvinyl Ether	<0.00600	mg/L	1.00	0.00600	0.01000		U	07/05/24 14:50	PN
	Acetonitrile[2]	<0.00920	mg/L	1.00	0.00920	0.0200		U	07/05/24 14:50	PN
	Acrolein	<0.00600	mg/L	1.00	0.00600	0.0100		U	07/05/24 14:50	PN
	Benzene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	Bromodichloromethane	0.00414	mg/L	1.00	0.00100	0.00500		J	07/05/24 14:50	PN
	Bromoform	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	Bromomethane	<0.00200	mg/L	1.00	0.00200	0.00500		U	07/05/24 14:50	PN
	Carbon tetrachloride	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	Chlorobenzene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	Chloroethane	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	Chloroform	0.0108	mg/L	1.00	0.00100	0.00500			07/05/24 14:50	PN
	Chloromethane	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	cis-1,3-Dichloropropene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	Dibromochloromethane	0.00170	mg/L	1.00	0.00100	0.00500		J	07/05/24 14:50	PN
	Ethylbenzene	0.00312	mg/L	1.00	0.00100	0.00500		J	07/05/24 14:50	PN
	MEK	0.00480	mg/L	1.00	0.00100	0.00500		J	07/05/24 14:50	PN
	Methylene chloride	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	Tetrachloroethylene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	Toluene	0.00115	mg/L	1.00	0.00100	0.00500		J	07/05/24 14:50	PN
	trans-1,2-Dichloroethylene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	trans-1,3-Dichloropropene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	Trichloroethylene	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN
	TTHMs	0.01664	mg/L	1.00	0.001	0.0200		J	07/05/24 14:50	PN
	Vinyl Chloride	<0.00100	mg/L	1.00	0.00100	0.00500		U	07/05/24 14:50	PN

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24070217

Date 7/10/2024

Client Name: NWDLS

Attn: Aundra Noe

Project Name: 24F3396

Client Sample ID: 24F3396-04
Date Collected: 06/27/24
Time Collected: 14:00
Other Information:

Job Sample ID: 24070217.02
Sample Matrix Waste Water
% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 624.1	Volatile Organic Compounds									
	1,2-Dichloroethane-d4(surr)	96	%	1.00		70-130			07/05/24 14:50	PN
	Dibromofluoromethane(surr)	107	%	1.00		70-130			07/05/24 14:50	PN
	p-Bromofluorobenzene(surr)	95.8	%	1.00		70-130			07/05/24 14:50	PN
	Toluene-d8(surr)	96.3	%	1.00		70-130			07/05/24 14:50	PN

ab-q212-0321

[2]-Parameter not available for accreditation.

QUALITY CONTROL CERTIFICATE

Job ID : 24070217 **Date :** 7/10/2024

Analysis : Polychlorinated Biphenyls **Method :** EPA 608.3 **Reporting Units :** ug/L

QC Batch ID : Qb240703136 **Created Date :** 07/03/24 **Created By :** AMarapadaga

Samples in This QC Batch : 24070217.01

Extraction : PB24070333 **Prep Method :** EPA 608.3 **Prep Date :** 07/03/24 10:00 **Prep By :** JCoku

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Aroclor 1016	12674-11-2	< MDL	ug/L	1.00	0.05	0.025		
Aroclor 1221	11104-28-2	< MDL	ug/L	1.00	0.05	0.026		
Aroclor 1232	11141-16-5	< MDL	ug/L	1.00	0.05	0.026		
Aroclor 1242	53469-21-9	< MDL	ug/L	1.00	0.05	0.026		
Aroclor 1248	12672-29-6	< MDL	ug/L	1.00	0.05	0.026		
Aroclor 1254	11097-69-1	< MDL	ug/L	1.00	0.05	0.026		
Aroclor 1260	11096-82-5	< MDL	ug/L	1.00	0.05	0.026		
Total PCBs		< MDL	ug/L	1.00	0.05	0.026		
Decachlorobiphenyl(surr)	2051-24-3	94	%	1.00				
Tetrachloro-m-xylene(surr)	877-09-8	80	%	1.00				

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Aroclor 1016	2	1.71	85.4	2	1.62	81	5.3	30	53.7-124	
Aroclor 1260	2	1.74	86.8	2	1.66	83	4.5	30	51.7-130	
Total PCBs	4	3.44	86.1	4	3.28	82	4.9	30	51.7-130	

QUALITY CONTROL CERTIFICATE

Job ID : 24070217 **Date :** 7/10/2024

Analysis : Volatile Organic Compounds **Method :** EPA 624.1 **Reporting Units :** mg/L

QC Batch ID : Qb24070581 **Created Date :** 07/05/24 **Created By :** PNaidu

Samples in This QC Batch : 24070217.02

Sample Preparation : PB24070560 **Prep Method :** EPA 624.1 **Prep Date :** 07/05/24 10:00 **Prep By :** KVignesh

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,1,1-Trichloroethane	71-55-6	< MDL	mg/L	1.00	0.005	0.001	
1,1,2,2-Tetrachloroethane	79-34-5	< MDL	mg/L	1.00	0.005	0.001	
1,1,2-Trichloroethane	79-00-5	< MDL	mg/L	1.00	0.005	0.001	
1,1-Dichloroethane	75-34-3	< MDL	mg/L	1.00	0.005	0.001	
1,1-Dichloroethylene	75-35-4	< MDL	mg/L	1.00	0.005	0.001	
1,2-Dibromoethane	106-93-4	< MDL	mg/L	1.00	0.005	0.001	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/L	1.00	0.005	0.001	
1,2-Dichloroethane	107-06-2	< MDL	mg/L	1.00	0.005	0.001	
1,2-Dichloropropane	78-87-5	< MDL	mg/L	1.00	0.005	0.001	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/L	1.00	0.005	0.001	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/L	1.00	0.005	0.001	
2-chloroethylvinyl Ether	110-75-8	< MDL	mg/L	1.00	0.01	0.006	
Acetonitrile	75-05-8	< MDL	mg/L	1.00	0.02	0.00923	
Acrolein	107-02-8	< MDL	mg/L	1.00	0.01	0.006	
Benzene	71-43-2	< MDL	mg/L	1.00	0.005	0.001	
Bromodichloromethane	75-27-4	< MDL	mg/L	1.00	0.005	0.001	
Bromoform	75-25-2	< MDL	mg/L	1.00	0.005	0.001	
Bromomethane	74-83-9	< MDL	mg/L	1.00	0.005	0.002	
Carbon tetrachloride	56-23-5	< MDL	mg/L	1.00	0.005	0.001	
Chlorobenzene	108-90-7	< MDL	mg/L	1.00	0.005	0.001	
Chloroethane	75-00-3	< MDL	mg/L	1.00	0.005	0.001	
Chloroform	67-66-3	< MDL	mg/L	1.00	0.005	0.001	
Chloromethane	74-87-3	< MDL	mg/L	1.00	0.005	0.001	
cis-1,3-Dichloropropene	10061-01-5	< MDL	mg/L	1.00	0.005	0.001	
Dibromochloromethane	124-48-1	< MDL	mg/L	1.00	0.005	0.001	
Ethylbenzene	100-41-4	< MDL	mg/L	1.00	0.005	0.001	
MEK	78-93-3	< MDL	mg/L	1.00	0.005	0.001	
Methylene chloride	75-09-2	< MDL	mg/L	1.00	0.005	0.001	
Tetrachloroethylene	127-18-4	< MDL	mg/L	1.00	0.005	0.001	
Toluene	108-88-3	< MDL	mg/L	1.00	0.005	0.001	
trans-1,2-Dichloroethylene	156-60-5	< MDL	mg/L	1.00	0.005	0.001	
trans-1,3-Dichloropropene	10061-02-6	< MDL	mg/L	1.00	0.005	0.001	
Trichloroethylene	79-01-6	< MDL	mg/L	1.00	0.005	0.001	
TTHMs		< MDL	mg/L	1.00	0.02	0.002	
Vinyl Chloride	75-01-4	< MDL	mg/L	1.00	0.005	0.001	
Dibromofluoromethane(surr	1868-53-7	104	%	1.00			
1,2-Dichloroethane-d4(surr	17060-07-0	103	%	1.00			
Toluene-d8(surr)	2037-26-5	97.4	%	1.00			

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 24070217 **Date :** 7/10/2024

Analysis : Volatile Organic Compounds **Method :** EPA 624.1 **Reporting Units :** mg/L

QC Batch ID : Qb24070581 **Created Date :** 07/05/24 **Created By :** PNaidu

Samples in This QC Batch : 24070217.02

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
p-Bromofluorobenzene(surr	460-00-4	97.5	%	1.00				

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1-Dichloroethylene	0.04	0.0393	98.3	0.04	0.0393	98.3	0.1	30	82.6-123	
Acetonitrile	0.16	0.152	95.1	0.16	0.149	93.4	2.1	30	60-140	
Benzene	0.04	0.0381	95.2	0.04	0.0388	97	1.9	30	89.9-118	
Chlorobenzene	0.04	0.0392	98.1	0.04	0.0392	98	0.1	30	91.5-114	
Toluene	0.04	0.0380	95	0.04	0.0388	97.1	2.1	30	89.6-118	
Trichloroethylene	0.04	0.0393	98.2	0.04	0.0401	100	2.1	30	84.2-115	
1,1,1-Trichloroethane	0.04	0.0396	98.9	0.04	0.0398	99.5	0.6	30	83.2-127	
1,1,2,2-Tetrachloroethane	0.04	0.0387	96.9	0.04	0.0377	94.3	2.7	30	83.1-121	
1,1,2-Trichloroethane	0.04	0.0370	92.5	0.04	0.0374	93.5	1.1	30	82.1-122	
1,1-Dichloroethane	0.04	0.0388	97	0.04	0.0381	95.4	1.8	30	84.8-123	
1,2-Dibromoethane	0.04	0.0371	92.8	0.04	0.0360	90.1	3.1	30	87.1-119	
1,2-Dichlorobenzene	0.04	0.0395	98.8	0.04	0.0405	101	2.4	30	91.1-115	
1,2-Dichloroethane	0.04	0.0380	95	0.04	0.0366	91.5	3.7	30	82.8-123	
1,2-Dichloropropane	0.04	0.0389	97.3	0.04	0.0396	99.1	1.8	30	87.9-122	
1,3-Dichlorobenzene	0.04	0.0409	102	0.04	0.0421	105	2.9	30	91.7-114	
1,4-Dichlorobenzene	0.04	0.0412	103	0.04	0.0418	105	1.5	30	91.4-115	
MEK	0.04	0.0342	85.4	0.04	0.0327	81.7	4.4	30	59.2-133	
Acrolein	0.08	0.0847	106	0.08	0.0861	108	1.6	30	67.4-118	
Bromodichloromethane	0.04	0.0396	99.1	0.04	0.0392	98	1.1	30	86.3-122	
Bromoform	0.04	0.0396	99	0.04	0.0383	95.8	3.3	30	81.6-120	
Bromomethane	0.04	0.0340	85	0.04	0.0339	84.7	0.3	30	58.1-150	
Carbon tetrachloride	0.04	0.0411	103	0.04	0.0403	101	1.9	30	85.6-130	
Chloroethane	0.04	0.0349	87.2	0.04	0.0367	91.6	5.1	30	77.5-130	
Chloroform	0.04	0.0384	96.1	0.04	0.0389	97.2	1.2	30	85.4-121	
Chloromethane	0.04	0.0370	92.5	0.04	0.0365	91.3	1.4	30	71.4-131	
cis-1,3-Dichloropropene	0.04	0.0423	106	0.04	0.0425	106	0.5	30	89.6-118	
Dibromochloromethane	0.04	0.0391	97.7	0.04	0.0381	95.3	2.6	30	83.8-118	
Ethylbenzene	0.04	0.0397	99.2	0.04	0.0404	101	1.8	30	91.1-115	
Methylene chloride	0.04	0.0372	92.9	0.04	0.0370	92.6	0.5	28	60-140	
Tetrachloroethylene	0.04	0.0334	83.4	0.04	0.0352	88.1	5.3	30	70-130	
trans-1,2-Dichloroethylene	0.04	0.0390	97.4	0.04	0.0389	97.2	0.1	30	85.3-123	
trans-1,3-Dichloropropene	0.04	0.0408	102	0.04	0.0411	103	0.7	30	84.7-119	
Vinyl Chloride	0.04	0.0359	89.7	0.04	0.0352	88	1.9	30	78.5-121	
2-chloroethylvinyl Ether	0.08	0.0729	91.1	0.08	0.0745	93.1	2.2	30	32.6-169	
TTHMs	0.16	0.156766	98	0.16	0.154488	96.6	1.5	30	60-140	

QUALITY CONTROL CERTIFICATE

Job ID : 24070217 **Date :** 7/10/2024

Analysis : Volatile Organic Compounds **Method :** EPA 624.1 **Reporting Units :** mg/L

QC Batch ID : Qb24070581 **Created Date :** 07/05/24 **Created By :** PNaidu

Samples in This QC Batch : 24070217.02

QC Type: MS and MSD
QC Sample ID: 24070217.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1-Dichloroethylene	BRL	0.04	0.0367	91.8						74.5-129	
2-chloroethylvinyl Ether	BRL	0.08	0.0919	115						10-239	
Acetonitrile	BRL	0.16	0.147	91.9						60-140	
Benzene	BRL	0.04	0.0389	97.1						88.4-143	
Chlorobenzene	BRL	0.04	0.0390	97.4						88-112	
Toluene	0.00115	0.04	0.0391	97.7						47-150	
Trichloroethylene	BRL	0.04	0.0392	98						78.8-117	
1,1,1-Trichloroethane	BRL	0.04	0.0391	97.8						74.1-132	
1,1,2,2-Tetrachloroethane	BRL	0.04	0.0422	106						92.5-151	
1,1,2-Trichloroethane	BRL	0.04	0.0401	100						83.1-143	
1,1-Dichloroethane	BRL	0.04	0.0366	91.5						74.6-127	
1,2-Dibromoethane	BRL	0.04	0.0400	100						90-133	
1,2-Dichlorobenzene	BRL	0.04	0.0394	98.4						88.7-115	
1,2-Dichloroethane	BRL	0.04	0.0383	95.8						59-155	
1,2-Dichloropropane	BRL	0.04	0.0392	97.9						84.1-128	
1,3-Dichlorobenzene	BRL	0.04	0.0403	101						84.5-114	
1,4-Dichlorobenzene	BRL	0.04	0.0405	101						83.6-115	
MEK	BRL	0.04	0.0448	112						26.5-198	
Acrolein	BRL	0.08	0.0645	80.6						40-160	
Bromodichloromethane	BRL	0.04	0.0439	110						79.2-143	
Bromoform	BRL	0.04	0.0422	106						67.2-167	
Bromomethane	BRL	0.04	0.0221	55.2						10-242	
Carbon tetrachloride	BRL	0.04	0.0399	99.8						78.7-137	
Chloroethane	BRL	0.04	0.0312	78						68.3-134	
Chloroform	0.0108	0.04	0.0487	94.7						69.2-138	
Chloromethane	BRL	0.04	0.0338	84.6						10-273	
cis-1,3-Dichloropropene	BRL	0.04	0.0435	109						76.9-129	
Dibromochloromethane	BRL	0.04	0.0415	104						65.1-149	
Ethylbenzene	BRL	0.04	0.0414	104						64.3-133	
Methylene chloride	BRL	0.04	0.0343	85.7						25.1-195	
Tetrachloroethylene	BRL	0.04	0.0359	89.6						64-138	
trans-1,2-Dichloroethylene	BRL	0.04	0.0375	93.7						79.6-126	
trans-1,3-Dichloropropene	BRL	0.04	0.0439	110						76.2-134	
Vinyl Chloride	BRL	0.04	0.0327	81.9						54.7-139	
TTHMs	0.0167	0.16	0.176322	99.8						60-140	

QUALITY CONTROL CERTIFICATE

Job ID : 24070217 **Date :** 7/10/2024

Analysis : Organochlorine Pesticides **Method :** EPA 608.3 **Reporting Units :** ug/L

QC Batch ID : Qb24071065 **Created Date :** 07/09/24 **Created By :** mqiao

Samples in This QC Batch : 24070217.01

Extraction : PB24070335 **Prep Method :** EPA 608.3 **Prep Date :** 07/03/24 10:00 **Prep By :** JCoku

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Alpha-chlordane	5103-71-9	< MDL	ug/L	1.00	0.01	0.004	
Dicofol	115-32-2	< MDL	ug/L	1.00	0.05	0.05	
Gamma-chlordane	5103-74-2	< MDL	ug/L	1.00	0.01	0.004	
4,4-DDD	72-54-8	< MDL	ug/L	1.00	0.01	0.002	
4,4-DDE	72-55-9	< MDL	ug/L	1.00	0.01	0.009	
4,4-DDT	50-29-3	< MDL	ug/L	1.00	0.01	0.004	
a-BHC	319-84-6	< MDL	ug/L	1.00	0.01	0.003	
Aldrin	309-00-2	< MDL	ug/L	1.00	0.01	0.004	
b-BHC	319-85-7	< MDL	ug/L	1.00	0.01	0.004	
Chlordane	57-74-9	< MDL	ug/L	1.00	0.1	0.1	
d-BHC	319-86-8	< MDL	ug/L	1.00	0.01	0.006	
Dieldrin	60-57-1	< MDL	ug/L	1.00	0.01	0.005	
Endosulfan I	959-98-8	< MDL	ug/L	1.00	0.01	0.007	
Endosulfan II	33213-65-9	< MDL	ug/L	1.00	0.01	0.004	
Endosulfan sulfate	1031-07-8	< MDL	ug/L	1.00	0.01	0.005	
Endrin	72-20-8	< MDL	ug/L	1.00	0.01	0.004	
Endrin aldehyde	7421-93-4	< MDL	ug/L	1.00	0.01	0.003	
g-BHC	58-89-9	< MDL	ug/L	1.00	0.01	0.004	
Heptachlor	76-44-8	< MDL	ug/L	1.00	0.01	0.004	
Heptachlor epoxide	1024-57-3	< MDL	ug/L	1.00	0.01	0.004	
Methoxychlor	72-43-5	< MDL	ug/L	1.00	0.01	0.003	
Mirex	2385-85-5	< MDL	ug/L	1.00	0.01	0.01	
Toxaphene	8001-35-2	< MDL	ug/L	1.00	0.1	0.1	
Tetrachloro-m-xylene(surr)	877-09-8	75.3	%	1.00			
Decachlorobiphenyl(surr)	2051-24-3	102	%	1.00			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Alpha-chlordane	0.2	0.204	102	0.2	0.198	99.3	3.2	23	42-132	
Gamma-chlordane	0.2	0.200	100	0.2	0.197	98.5	1.8	21	45-133	
4,4-DDD	0.2	0.224	112	0.2	0.226	113	0.9	24	40.8-141	
4,4-DDE	0.2	0.220	110	0.2	0.208	104	5.6	21	30-136	
4,4-DDT	0.2	0.244	122	0.2	0.224	112	8.5	30	34.3-134	
a-BHC	0.2	0.176	88	0.2	0.179	89.5	1.7	25	37-125	
Aldrin	0.2	0.182	90.8	0.2	0.182	90.8	0.3	23	42-127	
b-BHC	0.2	0.198	98.8	0.2	0.205	103	3.7	24	38.5-132	

QUALITY CONTROL CERTIFICATE

Job ID : 24070217 **Date :** 7/10/2024

Analysis : Organochlorine Pesticides **Method :** EPA 608.3 **Reporting Units :** ug/L

QC Batch ID : Qb24071065 **Created Date :** 07/09/24 **Created By :** mqiao

Samples in This QC Batch : 24070217.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
d-BHC	0.2	0.220	110	0.2	0.212	106	3.9	20	30-139	
Dieldrin	0.2	0.218	109	0.2	0.214	107	2.1	21	40.7-133	
Endosulfan I	0.2	0.154	76.8	0.2	0.150	74.8	2.3	24	45-124	
Endosulfan II	0.2	0.176	88.3	0.2	0.168	84	4.9	21	20-114	
Endosulfan sulfate	0.2	0.218	109	0.2	0.236	118	7.7	20	45-131	
Endrin	0.2	0.210	105	0.2	0.202	101	4.1	24	35.1-136	
Endrin aldehyde	0.2	0.212	106	0.2	0.200	99.8	6.1	33	33.9-130	
g-BHC	0.2	0.187	93.5	0.2	0.188	94	0.5	25	39-132	
Heptachlor	0.2	0.204	102	0.2	0.206	103	0.7	20	34.6-134	
Heptachlor epoxide	0.2	0.192	96.3	0.2	0.194	96.8	0.8	24	39.2-132	
Methoxychlor	0.2	0.254	127	0.2	0.240	120	5.9	24	37.7-143	

QC Type: MS and MSD
QC Sample ID: 24070217.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Alpha-chlordane	BRL	0.2	0.0920	46						45-140	
Gamma-chlordane	BRL	0.2	0.118	59.3						45-150	
4,4-DDD	BRL	0.2	0.115	57.5						31-141	
4,4-DDE	BRL	0.2	0.0630	31.5						30-145	
4,4-DDT	BRL	0.2	0.0740	37						25-160	
a-BHC	BRL	0.2	0.158	79.3						37-140	
Aldrin	BRL	0.2	0.0645	32.3						42-140	M2
b-BHC	BRL	0.2	0.184	92						17-147	
d-BHC	BRL	0.2	0.184	91.8						19-140	
Dieldrin	BRL	0.2	0.114	57						36-146	
Endosulfan I	BRL	0.2	0.0985	49.3						45-153	
Endosulfan II	BRL	0.2	0.128	63.8						10-190	
Endosulfan sulfate	BRL	0.2	0.220	110						26-144	
Endrin	BRL	0.2	0.126	62.8						30-147	
Endrin aldehyde	BRL	0.2	0.138	69						60-140	
g-BHC	BRL	0.2	0.181	90.5						32-140	
Heptachlor	BRL	0.2	0.0780	39						34-140	
Heptachlor epoxide	BRL	0.2	0.182	91.3						37-142	
Methoxychlor	BRL	0.2	0.188	94						60-140	

NWDLS
North Water District Laboratory Services, Inc.

Job ID:24070217
07/02/2024 NWDLS AMS

SUBCONTRACT ORDER

Sending Laboratory:

North Water District Laboratory Services, Inc.
130 South Trade Center Parkway
Conroe, TX 77385
Phone: 936-321-6060
Fax: 936-321-6061

Project Manager: Aundra Noe

Subcontracted Laboratory:

A & B Labs
10100 East Freeway, Suite 100
Houston, TX 77029
Phone: (713) 453-6060
Fax: (713) 453-6091

Work Order: 24F3396

Analysis	Due	Expires	Comments

Sample ID: 24F3396-02 *Waste Water Sampled: 06/27/2024 14:00*

OCP-608 — 07/11/2024 07/04/2024 14:00

Analyte(s):

4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC (alpha-Hexachlorocyclohexane), beta-BHC (beta-Hexachlorocyclohexane), Chlordane (Total), cis-Chlordane (alpha-Chlordane), delta-BHC, Dicofol, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, gamma-BHC (Lindane, gamma-Hexachlorocyclol, gamma-Chlordane, Heptachlor, Heptachlor epoxide, Methoxychlor, Mirex, Toxaphene (Chlorinated Camphene)

01AD

PCB-608 — 07/11/2024 06/22/2025 14:00

Analyte(s):

Aroclor-1016 (PCB-1016), Aroclor-1221 (PCB-1221), Aroclor-1232 (PCB-1232), Aroclor-1242 (PCB-1242), Aroclor-1248 (PCB-1248), Aroclor-1254 (PCB-1254), Aroclor-1260 (PCB-1260), PCBs, Total

Containers Supplied:

Sample ID: 24F3396-04 *Waste Water Sampled: 06/27/2024 14:00*

VOA-624 — 07/11/2024 07/11/2024 14:00

Analyte(s):

1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2-Dibromoethane (EDB, Ethylene dibromide), 1,2-Dichlorobenzene (o-Dichlorobenzene), 1,2-Dichloroethane (Ethylene dichloride), 1,2-Dichloroethane-d4-surr, 1,2-Dichloropropane, 1,3-Dichlorobenzene (m-Dichlorobenzene), 1,4-Dichlorobenzene (p-Dichlorobenzene), 2-Butanone (Methyl ethyl ketone, MEK), 2-Chloroethyl vinyl ether, 4-Bromofluorobenzene-surr, Acrolein (Propenal), Acrylonitrile, Benzene, Bromodichloromethane, Bromoform, Carbon tetrachloride, Chlorobenzene, Chlorodibromomethane, Chloroethane (Ethyl chloride), Chloroform, cis-1,3-Dichloropropene, Dibromofluoromethane-surr, Ethylbenzene, Methyl bromide (Bromomethane), Methyl chloride (Chloromethane), Methylene chloride (Dichloromethane), Tetrachloroethylene (Perchloroethylene), Toluene, Toluene-d8-surr, Total Trihalomethanes (TTHMs), trans-1,2-Dichloroethylene, trans-1,3-Dichloropropylene, Trichloroethene (Trichloroethylene), Vinyl chloride (Chloroethene)

02AF

Containers Supplied:

NWDLS

SUBCONTRACT ORDER
(Continued)

Released By — Date 7/2/24 11:10

Received By ASMITH — Date 7/2/24 11:10

4.0°C
IR7
ANS

Sample Condition Checklist

A&B JobID : **24070217**	Date Received : **07/02/2024**	Time Received : **11:10AM**
Client Name : **NWDLS**		
Temperature : **4.0°C**	Sample pH : **NA**	
Thermometer ID : **IR7**	pH Paper ID : **NA**	
Perservative :	Lot# :	

	Check Points	Yes	No	N/A
1.	**Cooler Seal present and signed.**		X	
2.	**Sample(s) in a cooler.**	X		
3.	**If yes, ice in cooler.**	X		
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If No comment)**	X		
8.	**Matrix:** Water ☑ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**	X		
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**	X		
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

Received 3 VOA's unpreserved (02AC) and 3 VOA's preserved with HCL (02DF). ~ANS 07/02/24

Brought by : Client

Received by : ASmith

Check in by/date : ASmith / 07/02/2024

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

Project
1109022

NWDS-G

North Water District Laboratory
Deena McDaniel
130 S Trade Center Parkway
Suite:100
Conroe, TX 77385

Printed 07/16/2024
7:39

TABLE OF CONTENTS

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

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
1109022

Printed 7/16/2024

North Water District Laboratory
Deena McDaniel
130 S Trade Center Parkway
Suite:100
Conroe, TX 77385

Sample	Sample ID	Taken	Time	Received
2312677	*24F3396-02*	06/27/2024	14:00:00	07/02/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1127139) Volume: 1.00000 mL <== Derived from 01 (976 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 632	03	1127139	07/03/2024	1128314	07/11/2024

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

1
2

NWDS-G

North Water District Laboratory
Deena McDaniel
130 S Trade Center Parkway
Suite:100
Conroe, TX 77385

Project
1109022

Printed: 07/16/2024

RESULTS

Sample Results

2312677 24F3396-02

Non-Potable Water | Collected by: Client | North Water District | Taken: 06/27/2024 14:00:00 | Received: 07/02/2024 | PO: #26201

EPA 632 — Prepared: 1127139 07/03/2024 13:00:00 Analyzed 1128314 07/11/2024 20:59:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<2.56**	**ug/L**	2.56		**63-25-2**	03
z	**Diuron**	**<0.0461**	**ug/L**	0.0461		**330-54-1**	03

Sample Preparation

2312677 24F3396-02

06/27/2024 | Received: 07/02/2024 | #26201

Prepared: 07/02/2024 15:48:31 *Calculated* 07/02/2024 15:48:31 CAL

z **Environmental Fee (per Project)** **Verified**

Prepared: 07/16/2024 07:38:00 *Analyzed* 07/16/2024 07:38:00 WIP

z **Level IV Data Review** **Completed**

EPA 632 — Prepared: 1127139 07/03/2024 13:00:00 Analyzed 1127139 07/03/2024 13:00:00 CRS

Liquid-Liquid Extr. W/Hex Ex **1/976** **ml** 01

EPA 632 — Prepared: 1127139 07/03/2024 13:00:00 Analyzed 1128314 07/11/2024 20:59:00 BRU

NELAC **Carbaryl/Diuron** **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

SPL
The Science of Sure

1
2

Project
1109022

NWDS-G

North Water District Laboratory
Deena McDaniel
130 S Trade Center Parkway
Suite:100
Conroe, TX 77385

Printed: 07/16/2024

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

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

NWDS-G

North Water District Laboratory
Deena McDaniel
130 S Trade Center Parkway
Suite:100
Conroe, TX 77385

Project
1109022

Printed 07/16/2024

Analytical Set 1128314

EPA 632

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1127139	ND	66.1	2500	ug/L	126545799
Diuron	1127139	550	44.4	45.0	ug/L	126545799

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	1050	1000	ug/L	105	70.0 - 130	126545798
Carbaryl (Sevin)	1060	1000	ug/L	106	70.0 - 130	126545802
Carbaryl (Sevin)	1000	1000	ug/L	100	70.0 - 130	126545804
Diuron	997	1000	ug/L	99.7	70.0 - 130	126545798
Diuron	980	1000	ug/L	98.0	70.0 - 130	126545802
Diuron	909	1000	ug/L	90.9	70.0 - 130	126545804

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1127139	880	772	1000	17.1 - 131	88.0	77.2	ug/L	13.1	30.0
Diuron	1127139	16.0	13.0	1000	0.100 - 138	1.60	1.30	ug/L	20.7	30.0

* 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.)

Email: Kilgore.ProjectManagement@spllabs.com

1109022 CoC Print Group 001 of 001

NWDLS

SUBCONTRACT ORDER

Sending Laboratory:

North Water District Laboratory Services, Inc.
130 South Trade Center Parkway
Conroe, TX 77385
Phone: 936-321-6060
Fax: 936-321-6061

Project Manager: Aundra Noe

Subcontracted Laboratory:

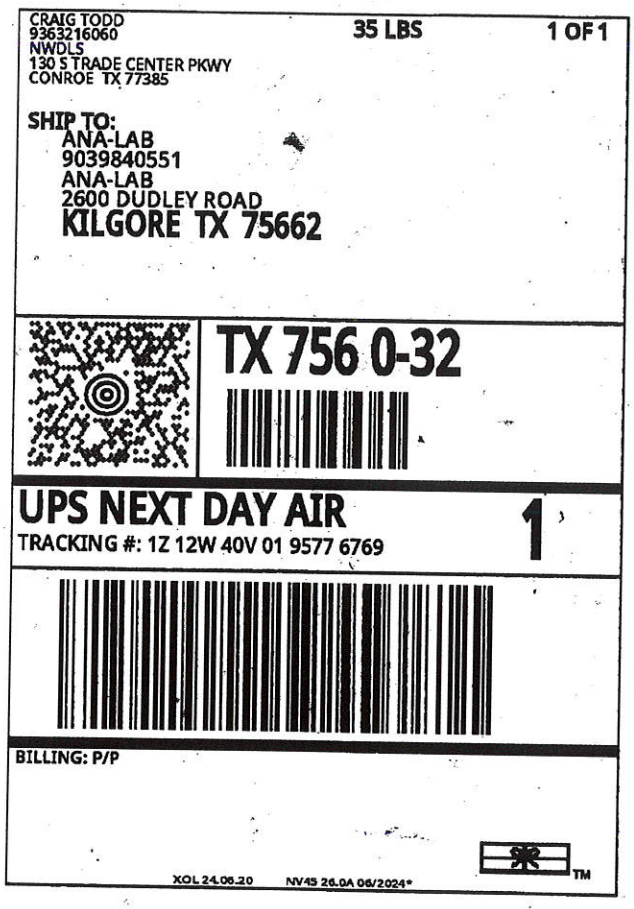
SPL
2600 Dudley Rd
Kilgore, TX 75662
Phone: (903) 984-0551
Fax:

Work Order: 24F3396

Analysis	Due	Expires	Comments
Sample ID: 24F3396-02 ***Waste Water Sampled: 06/27/2024 14:00***			
Sub_CBURP-632	07/11/2024	07/04/2024 14:00	
Analyte(s): Carbaryl	Diuron		
Containers Supplied:			

231679

Released By	Date	Received By	Date
UPS	07.01.24	UPS	07.01.24
	712124 1035	Mcqn	712124 1035



7/2/24 1520 mmV
Date Time Tech
Temp: 1.1 1.6 C

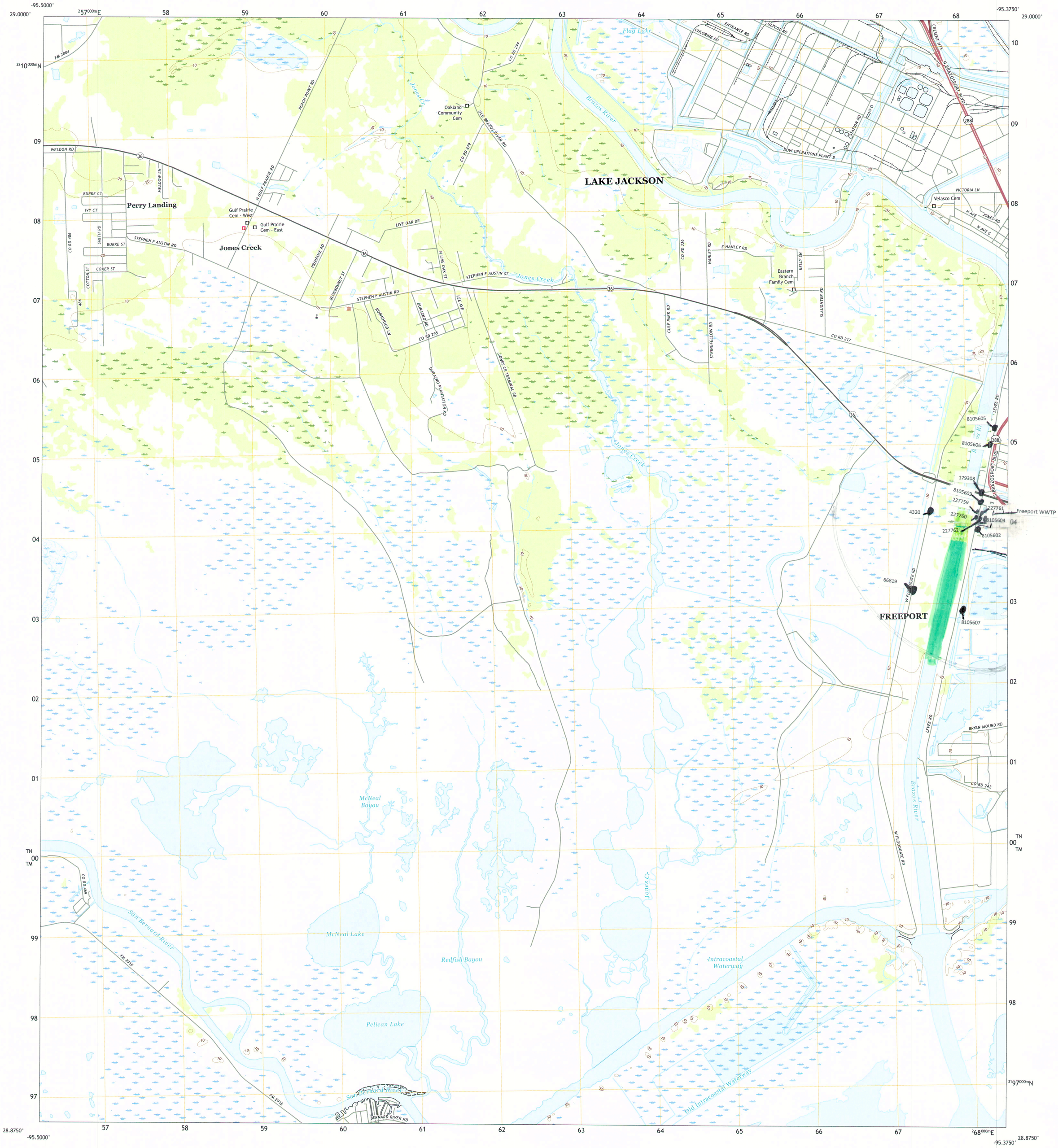
Therm#: 6205 Corr Fact: 0.5 C

USGS science for a changing world

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

The National Map US Topo

JONES CREEK QUADRANGLE
TEXAS - BRAZORIA COUNTY
7.5-MINUTE SERIES

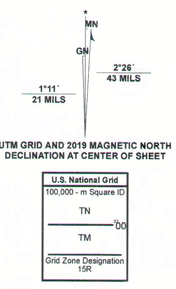


Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 15R

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
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2008
Boundaries.....Multiple sources; see metadata file 2019 - 2021

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



UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
TN
TM
Grid Zone Designation
15R

SCALE 1:24 000

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

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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

QUADRANGLE LOCATION

1	2	3
4		5
6	7	

ADJOINING QUADRANGLES

1 Brazoria
2 Lake Jackson
3 Oyster Creek
4 Cedar Lane NE
5 Freeport
6 Cedar Lakes West
7 Cedar Lakes East

ROAD CLASSIFICATION

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

JONES CREEK, TX
2022

NSN 7643016396732
NGA REF NO. USGSX24K22758

USGS science for a changing world

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

The National Map US Topo

FREEPORT QUADRANGLE
TEXAS - BRAZORIA 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 15R

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
Names	GNIS,	1979 - 2022
Hydrography	National Hydrography Dataset,	2002 - 2021
Contours	National Elevation Dataset,	2008
Boundaries	Multiple sources; see metadata file	2019 - 2021
Wetlands	FWS National Wetlands Inventory	Not Available

MN
GN
2°21'
42 MILS
1°7'
20 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
TN
00
TM
Grid Zone Designation
15R

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		

ADJOINING QUADRANGLES

1 Lake Jackson
2 Oyster Creek
3 Christmas Point
4 Jones Creek
5 Christmas Point OE S
6 Cedar Lakes East

ROAD CLASSIFICATION

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

FREEPORT, TX
2022

NSN 7643016396219
NGA REF NO. USGSX24K1E376

Rainee Trevino

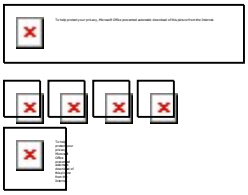
From: Meeks Jr., Jerry <jerry.meeks2@veolia.com>
Sent: Tuesday, April 8, 2025 2:18 PM
To: Rainee Trevino
Cc: James Carter
Subject: Re: Application to Renew Permit No. WQ0010882001-Notice of Deficiency Letter
Attachments: Core Data Form 2025.pdf; Plain Language Summary.docx; Municipal Discharge Renewal Spanish NORI.docx

Categories: Incomplete Response, NOD Response Review

Please see attached the additional information requested. As for the USGS Maps, I will get with USGS to get a better map to label. I will get those to you as soon as possible.

Jerry Meeks, Jr.
Lead Operator - Freeport Project
Municipal Water Contract Operations
VEOLIA NORTH AMERICA

Phone: +1 979 233 4281
veolianorthamerica.com



On Tue, Apr 8, 2025 at 10:06 AM Rainee Trevino <Rainee.Trevino@tceq.texas.gov> wrote:

> Dear Mr. Meeks,
>
> The attached Notice of Deficiency letter sent on April 8, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by April 22, 2025.
>
> Regards,
>
> **Rainee Trevino**
>
> Water Quality Division | ARP Team

Texas Commission on Environmental Quality

512-239-4324

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 600641799		RN 102184025

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	2/21/2025

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

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

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

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

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

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

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

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

15. Mailing Address:	1201 N. Ave. H						
	City	Freeport	State	TX	ZIP	77541	ZIP + 4

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	LPetty@Freeport.TX.US

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

(979) 233-3526		(979) 373-0113

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.)*

Freeport Central Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	931 E. Floodgate Rd							
	City	Freeport	**State**	TX	**ZIP**	77541	**ZIP + 4**	
24. County	Brazoria							

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

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

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:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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

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

Domestic wastewater facility.

34. Mailing Address:								
	1201 N. Ave. H							
	City	**Freeport**	**State**	**TX**	**ZIP**	**77541**	**ZIP + 4**	
35. E-Mail Address:	**Jerry.Meeks2@Veolia.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(979) 233-4281		**(979) 233-5833**

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:
	WQ0010882001			

SECTION IV: Preparer Information

40. Name:	Jerry Meeks, Jr.	**41. Title:**	Lead Operator

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(979 **)** 233-4281		**(** 979 **)** 233-5833	Jerry.Meeks2@Veolia.com

SECTION V: Authorized Signature

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

Company:	Veolia	**Job Title:**	Lead Operator		
Name *(In Print):*	Jerry Meeks, Jr.			**Phone:**	**(** 979 **)** 233- **4281**
Signature:				**Date:**	2/21/2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ00

SOLICITUD. *City of Freeport, 1201 North Aveenue H, Freeport, Texas 77541*, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010882001 (EPA I.D. No. TX 0033332) 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 2,250,000 galones por día. La planta está ubicada City of Freeport en el Condado de *Brazoria*, Texas *77541*. La ruta de descarga es del sitio de la planta a A través del emisario 001, directamente a la red de mareas del río Brazos y a través del emisario 002 a un humedal embalsado de 38,2 acres adyacente al sitio de la planta sin descarga desde los humedales. La TCEQ recibió esta solicitud el April 1, 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Freeport City Hall, Front Entrance, 1201 North Avenue H, Freeport, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.377222,28.944444&level=18

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

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

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

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

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

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

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

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

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

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

También se puede obtener información adicional del City of Freeport a la dirección indicada arriba o llamando a Mr. Lance Petty, City Manager, al 979-233-3526.

Fecha de emisión: *[Date notice issued]*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS 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 Freeport (CN600641799) operates the City of Freeport Wastewater Treatment Plant (RN102184025), a domestic wastewater treatment facility. The facility is located at 931 E. Floodgate Rd., in Freeport, Brazoria County, Texas 77541. The City of Freeport is requesting a renewal of the wastewater permit to discharge 2.25 MGD treated domestic wastewater to the Brazos River. When needed, there is also an option to discharge to the 38.2 acre impounded wetlands adjacent to the plant site with no discharge from the wetlands.

Discharges from the facility are expected to contain total suspended solids and BOD. Domestic wastewater is treated by chlorine gas.

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 Freeport (CN600641799) opera la Planta de Tratamiento de Aguas Residuales de la Ciudad de Freeport (RN102184025), una instalación de tratamiento de aguas residuales domésticas. La instalación está ubicada en 931 E. Floodgate Rd., en Freeport, Condado de Brazoria, Texas 77541. La ciudad de Freeport solicita la renovación del permiso de aguas residuales para descargar 2.25 MGD de aguas residuales domésticas tratadas al río Brazos. De ser necesario, también existe la opción de descargarlas en los humedales embalsados de 38.2 acres adyacentes a la planta, sin que se produzcan descargas desde estos.

Se espera que las descargas de la instalación contengan sólidos suspendidos totales y DBO. Las aguas residuales domésticas se tratan con cloro gaseoso.

INSTRUCTIONS

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

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

Example 1: Industrial Wastewater TPDES Application (ENGLISH)

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

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

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

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

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

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

Example 2: Domestic Wastewater TPDES Renewal application

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

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

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

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

Example 3: Domestic Wastewater TPDES New Application

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

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

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

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

Example 4: Domestic Wastewater TLAP Renewal application

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

of the permit application.

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

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

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

Rainee Trevino

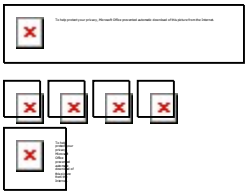
From: Meeks Jr., Jerry <jerry.meeks2@veolia.com>
Sent: Thursday, June 12, 2025 2:20 PM
To: Rainee Trevino
Subject: Re: Shared files from jerry.meeks2@veolia.com

Categories: NOD Response Review

Hope this helps. And if I need to I can reupload this to the ftp site so you have it there.

Jerry Meeks, Jr.
Lead Operator - Freeport Project
Municipal Water Contract Operations
VEOLIA NORTH AMERICA

Phone: +1 979 233 4281
veolianorthamerica.com



On Thu, Jun 12, 2025 at 2:13 PM Rainee Trevino <Rainee.Trevino@tceq.texas.gov> wrote:

-----Original Message-----
From: Rainee Trevino
Sent: Thursday, June 12, 2025 11:38 AM
To: jerry.meeks2@veolia.com
Subject: RE: Shared files from jerry.meeks2@veolia.com

I have received the map. It is still missing the following items labeled:

*Applicant's property boundary
*Wastewater treatment facility boundary
*Point of discharge (ex. X or a dot)
*The highlighted (yellow or light-colored highlighter) discharge route for three stream miles or until the effluent reaches a classified segment. - *One-mile radius

Regards,
Rainee Trevino

-----Original Message-----
From: Rainee Trevino
Sent: Thursday, June 12, 2025 9:39 AM
To: jerry.meeks2@veolia.com
Subject: RE: Shared files from jerry.meeks2@veolia.com

Good morning, Jerry,

Thanks, I am working with our folks who retrieve the applications and documents from the server to get that. Once I have it and have reviewed it, I will follow up.

Regards,
Rainee Trevino

-----Original Message-----
From: jerry.meeks2@veolia.com <jerry.meeks2@veolia.com>
Sent: Wednesday, June 11, 2025 4:17 PM
To: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Subject: Shared files from jerry.meeks2@veolia.com

One or more files have been shared with you from jerry.meeks2@veolia.com. Login to https://ftps.tceq.texas.gov to retrieve the files. Files will be available until 06/18/2025.

TPDES PERMIT NO.
WQ0010882001
[For TCEQ office use only - EPA I.D. No. TX0033332]

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

This is a renewal that replaces TPDES Permit No. WQ0010882001 issued on May 8, 2020.

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

City of Freeport

whose mailing address is

1201 North Avenue H
Freeport, Texas 77541

is authorized to treat and discharge wastes from the City of Freeport Central Wastewater Treatment Facility, SIC Code 4952

located at 931 East Floodgate Road, in the City of Freeport, Brazoria County, Texas 77541

via Outfall 001 directly to Brazos River Tidal in Segment No. 1201 of the Brazos River Basin and via Outfall 002 to a 38.2-acre impounded wetlands adjacent to the plant site with no discharge from the wetlands. See Attachment A.

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, **three 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 2.25 million gallons per day (MGD)*, nor shall the average discharge during any two-hour period (2-hour peak) exceed 5,555 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
Biochemical Oxygen Demand (5-day)	20 (375)	30	45	65	Two/week	Composite
Total Suspended Solids	20 (375)	30	45	65	Two/week	Composite
Total Nickel (µg/l)	147 (2.76)	N/A	311	735	One/six months	Composite
Enterococci, colony-forming units or most probable number per 100 ml	35	N/A	104	N/A	One/week	Grab

*The Combined discharge from Outfall 001 and Outfall 002 shall not exceed an annual average flow of 2.25 MGD.

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 2.0 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 002

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

   The annual average flow of effluent shall not exceed 1.40 MGD*, the discharge from the outfall will be used on an as needed basis and is to a 38-acre impounded wetlands adjacent to the plant site with no discharge from the wetlands.

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
Biochemical Oxygen Demand (5-day)	5 (58)	10	20	30	Two/week	Composite
Total Suspended Solids	5 (58)	10	20	30	Two/week	Composite
Total Nickel (µg/l)	147 (1.72)	N/A	311	735	One/six months	Composite
Enterococci, colony-forming units or most probable number per 100 ml	35	N/A	104	N/A	One/week	Grab

*The combined discharge from Outfall 001 and Outfall 002 shall not exceed annual average flow of 2.25 MGD.

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 2.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

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

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

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

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

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

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

2. Concentration Measurements

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

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

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

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

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

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

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

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

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

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

3. Sample Type

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

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

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

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

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

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

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

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

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

2. Test Procedures

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

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

3. Records of Results

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

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

c. Records of monitoring activities shall include the following:

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

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

iii. date and time of analysis;

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

v. the technique or method of analysis; and

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

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

Division (MC 224).

7. Noncompliance Notification

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

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

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

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

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

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

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

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

9. Changes in Discharges of Toxic Substances

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

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

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

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

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

   iv. The level established by the TCEQ.

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

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

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

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

   iv. The level established by the TCEQ.

10. Signatories to Reports

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

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

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

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

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

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

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

PERMIT CONDITIONS

1. General

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

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

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

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

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

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

2. Compliance

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

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

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

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

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

f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

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

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

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

3. Inspections and Entry

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

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

4. Permit Amendment and/or Renewal

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

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

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

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

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

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

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

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

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

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

5. Permit Transfer

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

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

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

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

       i. the permittee;

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

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

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

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

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

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

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

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

   a. The permittee shall notify the 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 12) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

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

Alternative 1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. Vector Attraction Reduction Requirements

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

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

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

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

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

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

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

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

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

Alternative 9 -

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

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

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

Alternative 10-

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

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

C. Monitoring Requirements

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

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

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 submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

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

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

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

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

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

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

8. Date(s) of transport.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) 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 12) and the Enforcement Division (MC 224), by September 30 of each year.

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

E. Record Keeping Requirements

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

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

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

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

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

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

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

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

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

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

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

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

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

A. General Requirements

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

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

B. Record Keeping Requirements

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

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

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

   d. the location of the receiving facility or facilities;

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

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

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

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

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

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

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OTHER REQUIREMENTS

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

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

2. The Executive Director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office (GLO) and has determined that the action is consistent with the applicable CMP goals and policies.

3. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as a volume within a radius of 200 feet from the point of discharge.

4. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

5. The permittee is authorized discharge from Outfall No. 002 to a 38.2-acre impounded wetlands adjacent to the plant site in compliance with the Attachment “A” of this permit.

6. The combined discharge from outfalls 001 and 002 shall not exceed an annual average flow of 2.25 MGD.

7. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Domestic Wastewater Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, one/week may be reduced to two/month in the Outfall 001, and Outfall 002. **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.

8. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 12 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 12 and the Enforcement Division (MC 224).

POLLUTANT	MAL
Total Nickel	10 ug/l

Test methods utilized shall be sensitive enough to demonstrate compliance with the permit effluent limitations. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit with consideration given to the MAL for the parameters specified above.

When an analysis of an effluent sample for any of the parameters 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 (0) shall be used for that measurement when determining calculations and reporting requirements 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 (0) 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 (0) for [list parameter(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 parameter 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 parameter, the level of detection achieved shall be used for that measurement when determining calculations and reporting requirements for the self-reporting form. A zero (0) may not be used.

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, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit (60 degrees 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 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 (BOD, etc.), 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 degrees Fahrenheit (40 degrees Celsius) unless the Executive Director, upon request of the POTW, approves the alternate temperature limit;

    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 comply with the pretreatment requirements in 40 CFR Part 403, as amended, and as specified in the following schedule of compliance. If the permittee is required to develop a pretreatment program, the final complete submission is due two (2) months from the date the permittee receives notification from the TCEQ Pretreatment Team (MC148) of the Water Quality Division indicating completion of the permittee's Activity Nos. 1- 6. (See Activity No. 7)

    a. The Executive Director determined that the permittee is required to conduct an industrial user survey to determine in a full pretreatment program must be developed to ensure the quality of its sewage sludge and to prevent interference and pass through. **The TPDES Permit No. WQ0010882001, issued on May 8, 2020, required the permittee to, within sixty (60) days of the issued date of the permit (*i.e.*, July 7, 2020) submit an industrial user survey to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division. The Executive Director has not yet received this industrial user survey. The permittee is required to submit an industrial user survey to the TCEQ Pretreatment Team (MC148) within 60 days of this permit issuance.** If the permittee does not complete any of the activities according to the following schedule, the permittee shall submit a letter signed by the permittee [according to 40 CFR §122.41(k)] to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division within 14 days of the activity due date, including, at a minimum, the date on which the required activity will be submitted, the

reason for the delay, and the steps taken to return to the established schedule. The permittee may request one 60-day extension of the due date for Activity Nos. 1 and 7. These requests for extensions shall be made in writing to the Executive Director, care of the Pretreatment Team (MC 148), no later than 14 days prior to the due date. The Executive Director may grant an extension of the deadlines of Activity Nos. 1 and 7 submitted pursuant to these permit requirements, upon a written and substantiated showing of good cause. The determination of what constitutes good cause rests solely with the Executive Director. Extensions are not effective until the permittee receives written approval from the Executive Director.

b. If after review of the submission, the Executive Director determines that the submission does not comply with the applicable requirements of 40 CFR §§403.8 and 403.9, the Executive Director will notify the permittee in writing. The notification will identify any defects in the submission and advise the permittee of the means by which the permittee can comply with the applicable requirements of 40 CFR §§403.8 and 403.9. In such a case, revised information will be necessary for the Executive Director to make a determination on whether to approve or deny the permittee's submission.

c. A new pretreatment program will proceed through the approval process in accordance with 40 CFR §§403.9 and 403.11 *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798].* The submission will become effective upon approval by the Executive Director in accordance with 40 CFR §403.11. Upon approval of a pretreatment program by the Executive Director, this permit will be modified or amended to incorporate that pretreatment program.

d. The permittee may develop and submit a complete pretreatment program at any time before the deadline established in Activity No. 7.

e. The permittee may apply for authority to revise categorical pretreatment standards to reflect POTW removal of pollutants in accordance with the requirements of 40 CFR §403.7 *[rev. 10/14/05]* at any time.

f. 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.

g. The permittee shall provide adequate written notification to the Executive Director, care of the Pretreatment Team (MC148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of the following:

    (1) 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

    (2) Any substantial change in the volume or character of pollutants being introduced into the treatment works.

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

SCHEDULE OF COMPLIANCE FOR PRETREATMENT PROGRAM DEVELOPMENT

ACTIVITY NUMBER	ACTIVITY	DATE
	Submissions required by the Activity Nos. 1-6 listed below shall be made to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division. Initially, Activity Nos. 3, 4, 5, and 6 should be submitted in draft form.	The permittee failed to submit to the TCEQ Pretreatment Team by July 7, 2020, a completed IU Survey as required by Activity No. 1 in TPDES Permit No. WQ0010046002 issued on May 8, 2020. A Notice of Violation (NOV) was issued to the permittee on May 1, 2025.
1.	Submit an industrial user (IU) survey which consists of a qualitative analysis of pollutants being contributed by IUs in its entire municipal system (including all treatment plants). In accordance with 40 Code of Federal Regulations (CFR) §§403.8(f)(2)(i)-(ii) and 403.12(i)(1), the IUs should be asked to provide, the names, addresses, contact person, and information on the type and approximate quantity of pollutants discharged into the system. For guidance on the procedures see the U.S. Environmental Protection Agency's *Guidance Manual for POTW Pretreatment Program Development*, October 1983, Chapter 2 and Appendix H. This information may be derived from knowledge of the facility's process and should not require any sampling at the source. The IU survey must identify significant industrial users (SIUs), including those categorical industrial users (CIUs) subject to categorical pretreatment standards under 40 CFR Chapter I, Subchapter N, and specifying the citations, categories, and subcategories from the 40 CFR which are applicable to such CIUs. The permittee should submit the information in tabular form, using the example table format provided. The TCEQ Pretreatment Team will notify the permittee regarding the results of the IU survey, and whether the permittee will be required to continue the program development beyond Activity No. 1. If pretreatment program development is necessary, the permittee will be required to continue the program development upon receiving notification from the TCEQ. If notified that a TPDES pretreatment program is not necessary, the permittee will submit an update of its IU survey with Worksheet 6.0 of the Domestic Technical Report, as part of the TCEQ Domestic Wastewater Permit Application, when next reapplying for this TPDES permit. The IU survey must include documented changes in industrial flow and/or characteristics of existing industries and any new contributing industries.	**The permittee is required to submit Activity No. 1, 2 months from the issued date of the permit**

SCHEDULE OF COMPLIANCE FOR PRETREATMENT PROGRAM DEVELOPMENT

ACTIVITY NUMBER	ACTIVITY	DATE
2.	Submit a sampling plan describing the monitoring to take place at the influent and effluent (and other points, as applicable) of each wastewater treatment plant to be covered under the TPDES pretreatment program, domestic/commercial background, and sewage sludge for the technically based local limits (TBLLs) development. Submit the analytical results and related quality assurance/quality control (QA/QC) information of an influent pollutant scan of a 24-hour composite sample to determine all pollutants being contributed to the system. The type of scan to be performed is the initial priority pollutant scan of the 126 pollutants from 40 CFR Part 122, Appendix D, Tables II and III plus any other additional pollutants designated in the TCEQ Texas Surface Water Quality Standards, 30 TAC Chapter 307. Submit information derived from Items (a) and (b) in this section below. All sampling, analyses, and method detection limits must be performed in accordance with 40 CFR Part 136, as amended; as approved by the EPA through the application for alternate test procedures; or as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), as amended and adopted by the TCEQ. This initial pollutant scan will be used by the permittee for developing the TBLLs as specified in Activity No. 5. (a) Using the qualitative information supplied by the IUs in Activity No. 1, and the quantitative information collected in the initial pollutant scan, the permittee shall determine which IUs may be discharging pollutants of concern which may affect the operation of the POTW(s) or pass through untreated. (b) Sampling and analyses shall be completed to quantify the pollutants of concern discharged by the IUs identified in the investigation of (a) above.	3 months from the effective date of notification to continue pretreatment program development

SCHEDULE OF COMPLIANCE FOR PRETREATMENT PROGRAM DEVELOPMENT

ACTIVITY NUMBER	ACTIVITY	DATE
3.	Submit a design of a sampling, inspection, permitting, reporting, and data management program which will implement the requirements of 40 CFR §§403.8 and 403.12, including all proposed forms. The permittee is required to design the program in order to inspect and sample the effluent from each SIU at least once per year, except as specified in 40 CFR §403.8(f)(2)(v). The permittee shall design the program in order to control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements. In the case of SIUs (identified as significant under 40 CFR §403.3(v)), this control shall be achieved through individual or general control mechanisms, in accordance with 40 CFR §403.8(f)(1)(iii).	5 months from the effective date of notification to continue pretreatment program development
4.	Submit a description of the financial programs, revenue sources, equipment, staffing, and organizational chart of those positions which will be employed to implement the pretreatment program (as required by 40 CFR §§403.8(f)(3) and 403.9(b)(3) and (b)(4)).	6 months from the effective date of notification to continue pretreatment program development
5.	Submit a complete TBLLs submission as required by 40 CFR §§403.5(c) and 403.8(f)(4). The technical development of the TBLLs should be developed in accordance with the EPA's *Local Limits Development Guidance*, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993. Include the results of a current Texas Toxicity Modeling Program (TexTox) report for each wastewater treatment plant. This report must be run subsequent to the effective date of the TCEQ notification to continue TPDES pretreatment program development. The technical development must demonstrate that the TBLLs attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination. This submission must include the TBLLs certification statement signed by the permittee [according to 40 CFR §122.41(k)].	9 months from the effective date of notification to continue pretreatment program development

SCHEDULE OF COMPLIANCE FOR PRETREATMENT PROGRAM DEVELOPMENT

ACTIVITY NUMBER	ACTIVITY	DATE
6.	The POTW is required to apply and enforce the pretreatment standards and requirements established by §§307(b) and (c), and 402(b)(8) and (9) of the Clean Water Act and any regulations implementing those sections, including 40 CFR §403.9(b). Submit the following: (a) a statement from the City Solicitor, a city official acting in a comparable capacity, or the city's independent counsel, that the POTW has the adequate authority to carry out the program; (b) a copy of any statute, ordinance, regulation, contract, agreement, or other authority that will be relied on by the POTW to administer the program; (c) a statement reflecting the endorsement of or approval by the local boards or bodies responsible for supervising and/or funding the program; (d) additional documents and agreements required in multi-jurisdictional situations for administration of the program; and (e) an enforcement response plan (ERP) that shall contain detailed procedures indicating how the POTW will investigate and respond to instances of IU noncompliance. The ERP, enforcement response guide (ERG), and other documents and forms shall, at a minimum, contain the aspects defined in 40 CFR §403.8(f)(5).	10 months from the effective date of notification to continue pretreatment program development
7.	Upon notification by the TCEQ Pretreatment Team of a completeness determination of the submitted program in accordance with 40 CFR §403.9, the permittee is required to submit an official request to the Executive Director care of the Pretreatment Team (MC148) of the Water Quality Division for program approval, including four (4) copies (three (3) bound and one (1) unbound) of the program deemed by the Executive Director to be complete. Submit a complete pretreatment program as required by 40 CFR §403.9. The complete pretreatment program shall include the final compilation of all previously submitted pretreatment program activities as amended and supplemented (*e*.g. Activity Nos. 1- 6).	The Executive Director will notify the permittee of the due date of Activity No. 7 with the notification of completion of the permittee's Activity Nos. 1 - 6.

Revised December 2019

TABLE A: INDUSTRIAL USER SURVEY RESULTS SUMMARY TABLE

Company Name	SIC Code	Description of Business Activities/ Manufacturing Processes	Business Address	Water Usage/ Wastewater Flow (GPD)	Specify the type of wastewater discharged to the publicly owned treatment works (POTW) specify with a check mark			Response Received (Y or N)	Classification SIU / CIU
					Zero Discharge To POTW	Domestic Wastewater Only	Process Wastewater Discharge		
	(1)	(2)		(3)				(4)	(5)

(1) Provide the Standard Industrial Classification (SIC) Codes for the company. If the company has multiple SIC codes, please provide them all.
(2) Provide a brief description of the company's business and/or manufacturing process.
(3) Provide water usage data or process wastewater flow data in gallons per day (gpd). When measured data is not available, provide an estimate.
(4) Specify whether or not the company responded to the industrial user survey conducted by the POTW. If the company did not respond, please explain what follow-up action occurred.

(5) Specify whether the company is a significant industrial user (SIU – 40 CFR §403.3) or a categorical industrial user (CIU – 40 CFR Parts 405 to 471). If the company is a CIU, then include the exact categorical citation, for example 40 CFR §433.15 for Metal Finishing Point Source category pretreatment standards for existing sources.

BIOMONITORING REQUIREMENTS

CHRONIC BIOMONITORING REQUIREMENTS: MARINE

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 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 below and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms," third edition (EPA-821-R-02-014) or its most recent update:

      1) Chronic static renewal 7-day survival and growth test using the mysid shrimp (*Americamysis bahia*) (Method 1007.0). A minimum of eight replicates with five organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

      2) Chronic static renewal 7-day larval survival and growth test using the inland silverside (*Menidia beryllina*) (Method 1006.0). 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 3%, 5%, 6%, 8%, and 11% effluent. The critical dilution, defined as 8% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

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

   e. Should a test species fail (i.e., demonstrate significant toxicity), the testing frequency for that test species increases to monthly until three consecutive tests pass (i.e., do not demonstrate significant toxicity), at which time the testing frequency of once per quarter resumes. If three or more failures are demonstrated during the permit term, a WET limit will be included in the

subsequently reissued permit. Any two lethal failures in a three-month period will require the permittee to initiate a TRE (see Part 4. Toxicity Reduction Evaluation).

2. Required Toxicity Testing Conditions

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

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

2) a control mean dry weight of surviving mysid shrimp of 0.20 mg or greater;

3) a control mean dry weight for surviving unpreserved inland silverside of 0.50 mg or greater and 0.43 mg or greater for surviving preserved inland silverside.

4) a control coefficient of variation percent (CV%) between replicates of 40 or less in the growth and survival tests;

5) a critical dilution CV% of 40 or less in the growth and survival endpoints for either growth and survival 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 37 or less for mysid shrimp growth; and

7) a percent minimum significant difference of 28 or less for inland silverside growth.

b. Statistical Interpretation

1) For the mysid shrimp and the inland silverside 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.

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

3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 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.

4) 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 herein defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution compared to the survival, reproduction, or growth of the test organism in the control (0% effluent).

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

6) Pursuant to the responsibility assigned to the permittee in Part 2.b.2), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Part 1.b. will be used when making a determination of test acceptability.

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

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected as close to the point of discharge as possible but unaffected by the discharge.

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

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

b) the test indicating receiving water toxicity was carried out to completion (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, reconstituted

seawater. Upon approval, the permittee may substitute other 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 mysid shrimp, Parameter TLP3E, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For the mysid shrimp, Parameter TOP3E, report the NOEC for survival.

3) For the mysid shrimp, Parameter TXP3E, report the LOEC for survival.

4) For the mysid shrimp, Parameter TWP3E, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

5) For the mysid shrimp, Parameter TPP3E, report the NOEC for growth.

6) For the mysid shrimp, Parameter TYP3E, report the LOEC for growth.

7) For the inland silverside, Parameter TLP6J, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

8) For the inland silverside, Parameter TOP6J, report the NOEC for survival.

9) For the inland silverside, Parameter TXP6J, report the LOEC for survival.

10) For the inland silverside, Parameter TWP6J, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

11) For the inland silverside, Parameter TPP6J, report the NOEC for growth.

12) For the inland silverside, Parameter TYP6J, report the LOEC for growth.

4. Toxicity Reduction Evaluation

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

b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall

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

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "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 reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

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

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

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

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

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

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

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

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

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

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

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

h. Based 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 to specify a chemical-specific limit.

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

TABLE 1 (SHEET 1 OF 4)

MYSID SHRIMP SURVIVAL AND GROWTH

		Date Time		Date Time
Dates and Times Composites Collected	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

MYSID SHRIMP SURVIVAL

Percent Effluent	Percent Survival in Replicate Chambers								Mean Percent Survival			CV%*
	A	B	C	D	E	F	G	H	24h	48h	7 day	
0%												
3%												
5%												
6%												
8%												
11%												

* Coefficient of Variation = standard deviation x 100/mean

DATA TABLE FOR GROWTH OF MYSID SHRIMP

Replicate	Mean dry weight in milligrams in replicate chambers					
	0%	3%	5%	6%	8%	11%
A						
B						
C						
D						
E						

TABLE 1 (SHEET 2 OF 4)

MYSID SHRIMP SURVIVAL AND GROWTH

DATA TABLE FOR GROWTH OF MYSID SHRIMP (Continued)

Replicate	Mean dry weight in milligrams in replicate chambers					
	0%	3%	5%	6%	8%	11%
F						
G						
H						
Mean Dry Weight (mg)						
CV%*						
PMSD						

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

   CRITICAL DILUTION (8%): _____ YES _____ NO

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 dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to non-lethal effects?

   CRITICAL DILUTION (8%): _____ 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

TABLE 1 (SHEET 3 OF 4)

INLAND SILVERSIDE MINNOW LARVAL SURVIVAL AND GROWTH TEST

		Date Time	Date Time
Dates and Times Composites Collected	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

INLAND SILVERSIDE SURVIVAL

Percent Effluent	Percent Survival in Replicate Chambers					Mean Percent Survival			CV%*
	A	B	C	D	E	24h	48h	7 days	
0%									
3%									
5%									
6%									
8%									
11%									

* Coefficient of Variation = standard deviation x 100/mean

TABLE 1 (SHEET 4 OF 4)

INLAND SILVERSIDE LARVAL SURVIVAL AND GROWTH TEST

INLAND SILVERSIDE GROWTH

Percent Effluent	Average Dry Weight in milligrams in replicate chambers					Mean Dry Weight (mg)	CV%*
	A	B	C	D	E		
0%							
3%							
5%							
6%							
8%							
11%							
PMSD							

Weights are for: ____ preserved larvae, or ____ unpreserved larvae

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

   CRITICAL DILUTION (8%): _____ YES _____ NO

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 dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to non-lethal effects?

   CRITICAL DILUTION (8%): _____ 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: MARINE

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

1. Scope, Frequency, and Methodology

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

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

1) Acute 24-hour static toxicity test using the mysid shrimp (*Americamysis bahia*). 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 inland silverside (*Menidia beryllina*). 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, then repeat, an invalid test during the same reporting period. The repeat test shall include the control and all effluent dilutions and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. Except as discussed in Part 2.b., the control and dilution water shall consist of standard, synthetic, reconstituted seawater.

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

2. Required Toxicity Testing Conditions

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

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

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 on an intermittent basis.

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 of 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, 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 mysid shrimp, Parameter TIE3E, 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 inland silverside, Parameter TII6J, 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 "1."

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

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, here defined as a mean mortality of 50% or greater to organisms exposed to the 100% effluent concentration after 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 additional 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 item 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5 of this Section.

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 a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

schedule for implementing the selected control mechanism.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, the 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 to specify a chemical specific limit.

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

TABLE 2 (SHEET 1 OF 2)

MYSID SHRIMP 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)

INLAND SILVERSIDE 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. WQ0010882001, EPA I.D. No. TX0033332, 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 Freeport
1201 North Avenue H
Freeport, Texas 77541

Prepared By: Paula Palmar
Domestic Permits Team
Domestic Wastewater Section (MC 148)
Water Quality Division
(512) 239-4561

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 **three years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2.25 million gallons per day (MGD) from Outfall 001 and a volume not to exceed an annual average flow of 1.40 MGD from Outfall 002. The Combined discharge from Outfall 001 and Outfall 002 shall not exceed an annual average flow of 2.25 MGD. The existing wastewater treatment facility serves the City of Freeport with approximately 3,700 single family homes, apartments, commercial businesses, and two pretreatment businesses.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 931 East Floodgate Road, in the City of Freeport, Brazoria County, Texas 77541.

Outfall Location**(s)**:

Outfall Number	Latitude	Longitude
001	28.945311 N	95.379751 W

The treated effluent is discharged via Outfall 001 directly to Brazos River Tidal in

Segment No. 1201 of the Brazos River Basin and via Outfall 002 to a 38.2-acre impounded wetlands adjacent to the plant site with no discharge from the wetlands in Segment No. 1201 of the Brazos River Basin. The designated uses for Segment No. 1201 are primary contact recreation, public water supply (PWS), and high aquatic life use. The PWS designation does not apply to this facility as the discharge is downstream of the PWS boundary.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The City of Freeport Central Wastewater Treatment Facility is an activated sludge process plant operated in the conventional mode in conjuction with a trickling filter. Treatment units include a bar screen, two aeration basins, an active sludge clarifier, a primary clarifier, a secondary clarifier, sludge digester, sludge drying, two chlorine contact chamber, and a dechlorination chamber. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, GFL Fort Bend LF, Permit No. 2270, in Fort Bend 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 facility potentially receives significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period May 2023 through May 2025, from Outfall 001. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and total nickel (µg/l). The average of Daily Average value for Enterococci in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Outfall 001	
Flow, MGD	0.74
BOD_5, mg/l	11
TSS, mg/l	10
Total Nickel, µg /l	8
Enterococci, CFU or MPN per 100 ml	28
Outfall 002	

Data for Outfall 002 was not available since there was not a discharge.

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-Outfall 001

The annual average flow of effluent shall not exceed 2.25 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 5,555 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
BOD_5	20	375	30	45
TSS	20	375	30	45
Total Nickel (µg /l)	147	2.76	N/A	311
DO (minimum)	2.0	N/A	N/A	N/A
Enterococci, CFU or MPN per 100 ml	35	N/A	N/A	104

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

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

Parameter	Monitoring Requirement
Flow, MGD	Continuous
BOD_5	Two/week
TSS	Two/week
Total Nickel (µg /l)	One/six months
DO	Two/week
Enterococci	One/week

B. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - Outfall 002

The annual average flow of effluent shall not exceed 1.40 MGD.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
BOD_5	5	58	10	20
TSS	5	58	10	20
Total Nickel	147	1.72	N/A	311
DO (minimum)	2.0	N/A	N/A	N/A
Enterococci, CFU or MPN/100 ml	35	N/A	N/A	104

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

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

Parameter	Monitoring Requirement
Flow, MGD	Continuous
BOD_5	Two/week
TSS	Two/week
Total Nickel (µg/l)	One/six months
DO	Two/week
Enterococci	One/week

C. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, GFL Fort Bend LF, Permit No. 2270, in Fort Bend 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.

D. PRETREATMENT REQUIREMENTS

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

60798]. The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

The Executive Director has determined that the permittee will be required to conduct an industrial user survey to determine if a full pretreatment program must be developed to ensure the quality of the sewage sludge and prevent interference and pass through. If the permittee is required to continue development of a new pretreatment program and completes Activity Nos. 1-7, then a new pretreatment program will proceed through the approval process in accordance with 40 CFR §§403.9 and 403.11 [rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798]. The submission will become effective upon approval by the Executive Director in accordance with 40 CFR §403.11.

E. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes chronic saltwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 3%, 5%, 6%, 8%, and 11%. The low-flow effluent concentration (critical dilution) is defined as 8% 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 growth test using the mysid shrimp (*Americamysis bahia)*. 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 inland silverside (*Menidia beryllina*). 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 saltwater biomonitoring requirements at a frequency of once per six months:

(a) Acute 24-hour static toxicity test using the mysid shrimp (*Americamysis bahia*).

(b) Acute 24-hour static toxicity test using the inland silverside (*Menidia beryllina*).

F. SUMMARY OF CHANGES FROM APPLICATION

None.

G. SUMMARY OF CHANGES FROM EXISTING PERMIT

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

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

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 via Outfall 001 directly to Brazos River Tidal in Segment No. 1201 of the Brazos River Basin and via Outfall 002 to a 38.2-acre impounded wetlands adjacent to the plant site with no discharge from the wetlands. The designated uses for Segment No. 1201 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. Though the piping plover, *Charadrius melodus* Ord, can Brazoria County, the county is north of Copano Bay and not a watershed of high priority per Appendix A of the 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. 1201 is not currently listed on the state's inventory of impaired and threatened waters (the 2024 CWA § 303(d) list).

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

(2) CONVENTIONAL PARAMETERS

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

The effluent limitations in the draft permit have been reviewed for consistency with the WQMP. The existing effluent limitations are contained in 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 Executive Director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office (GLO) and has determined that the action is consistent with the applicable CMP goals and policies.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

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

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

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

Acute marine criteria are applied at the edge of the zone of initial dilution (ZID), and chronic marine criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 50 feet from the point where the discharge enters Brazos River Tidal. The aquatic life mixing zone for this discharge is defined as a radius of 200 feet from the point where the discharge enters Brazos River Tidal.

TCEQ practice is to establish minimum estimated effluent percentages at the edges of the ZID and aquatic life mixing zone for discharges that are 10 MGD or less into bays, estuaries, or wide tidal rivers that are at least 400 feet wide. These critical effluent percentages are as follows:

Acute Effluent %:	30%	Chronic Effluent :	8%

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 N/A mg/l for hardness (as calcium carbonate), 3260 mg/l chlorides, 7.7 standard units for pH, and 10 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 marine fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Marine fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone for discharges into bays, estuaries, and wide tidal rivers. The human health mixing zone for this discharge is defined as a 400-foot radius from the point where the discharge enters Brazos River Tidal. TCEQ practice is to establish a minimum estimated effluent percentage at the edge of the human health mixing zone for discharges that are 10 MGD or less into bays, estuaries, and wide tidal rivers that are at least 400 feet wide. This critical effluent percentage is:

Human Health Effluent %: 4%

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. 1201, which receives the discharge from this facility, is designated as a public water supply. The screening procedure used to calculate water quality-based effluent limitations and determine the need for effluent limitations or monitoring requirements is identical to the procedure outlined in the aquatic organism bioaccumulation section of this fact sheet. Criteria used in the calculation of water quality-based effluent limitations for the protection of a drinking water supply are outlined in Table 2 (Water and Fish) of the Texas Surface Water Quality Standards (30 TAC Chapter 307). These criteria are developed from either drinking water maximum contaminant level (MCL) criteria outlined in 30 TAC Chapter 290 or from the combined human health effects of exposure to consumption of fish tissue and ingestion of drinking water.

(b) PERMIT ACTION

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

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

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

The existing permit includes 7-day chronic saltwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that: in the past three years, the permittee performed sixteen tests, with one demonstration of significant toxicity (i.e., one failure) by each test species.

A reasonable potential (RP) determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic WET testing. This determination was performed in accordance with the methodology

outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With one failure by each test species, a determination of no RP was made. WET limits are not required. However, a three-year permit will be issued in accordance with the methodology referenced above. Both test species are ineligible for the testing frequency reduction.

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

(b) PERMIT ACTION

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

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

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

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision 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 Paula Palmar at (512) 239-4561.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010882001 issued on May 8, 2020.

B. APPLICATION

Application received on April 1, 2025, and additional information received on November 6, 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 2024 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the U.S. Environmental Protection Agency on November 13, 2024.

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

Attachment A: pH Screening

Based on the CO2SYS program (Lewis and Wallace, 1998)
http://cdiac.esd.ornl.gov/oceans/co2rprt.html

INPUT

1. MIXING ZONE BOUNDARY CHARACTERISTICS	
Dilution factor at mixing zone boundary	12.500
Depth at plume trapping level (m)	2.000
2. BACKGROUND RECEIVING WATER CHARACTERISTICS	
Temperature (deg C):	35.00
pH:	7.70
Salinity (psu):	20.00
Total alkalinity (meq/L)	2.79
3. EFFLUENT CHARACTERISTICS	
Temperature (deg C):	20.00
pH:	9.00
Salinity (psu)	1.00
Total alkalinity (meq/L):	4.00

calculate

4. CLICK THE 'calculate" BUTTON TO UPDATE OUTPUT RESULTS >>>

OUTPUT

CONDITIONS AT THE MIXING ZONE BOUNDARY	
Temperature (deg C):	33.80
Salinity (psu)	18.48
Density (kg/m^3)	1008.12
Alkalinity (mmol/kg-SW):	2.86
Total Inorganic Carbon (mmol/kg-SW):	2.68
pH at Mixing Zone Boundary:	7.84

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #5 - BAY OR WIDE TIDAL RIVER

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

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

PERMIT INFORMATION

Permittee Name:	City of Freeport
TPDES Permit No:	WQ0010882001
Outfall No:	001
Prepared by:	Paula Palmar
Date:	11/3/25

DISCHARGE INFORMATION

Receiving Waterbody:	Brazos River Tidal
Segment No:	1201
TSS (mg/L):	10
Effluent Flow for Aquatic Life (MGD)	2.25
% Effluent for Chronic Aquatic Life (Mixing Zone):	8
% Effluent for Acute Aquatic Life (ZID):	30
Oyster Waters?	**no**
Effluent Flow for Human Health (MGD):	2.25
% Effluent for Human Health:	4

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

Estuarine 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	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Cadmium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (total)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (trivalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	4.85	-0.72	13489.63	0.881		1.00	Assumed
Lead	6.06	-0.85	162181.01	0.381		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	5.86	-0.74	131825.67	0.431		1.00	Assumed
Zinc	5.36	-0.52	69183.10	0.591		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*SW Acute Criterion (µg/L)*	*SW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrolein	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin	1.3	N/A	4.33	N/A	1.39	N/A	2.03	4.31
Aluminum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	149	78	497	975	159	595	233	494
Cadmium	40.0	8.75	133	109	42.7	66.7	62.7	132
Carbaryl	613	N/A	2043	N/A	654	N/A	961	2033
Chlordane	0.09	0.004	0.300	0.0500	0.0960	0.0305	0.0448	0.0948
Chlorpyrifos	0.011	0.006	0.0367	0.0750	0.0117	0.0458	0.0172	0.0364
Chromium (trivalent)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (hexavalent)	1090	49.6	3633	620	1163	378	555	1176
Copper	13.5	3.6	51.1	51.1	16.3	31.2	24.0	50.8
Copper (oyster waters)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyanide (free)	5.6	5.6	18.7	70.0	5.97	42.7	8.78	18.5
4,4'-DDT	0.13	0.001	0.433	0.0125	0.139	0.00763	0.0112	0.0237
Demeton	N/A	0.1	N/A	1.25	N/A	0.763	1.12	2.37
Diazinon	0.819	0.819	2.73	10.2	0.874	6.24	1.28	2.71
Dicofol [Kelthane]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	0.71	0.002	2.37	0.0250	0.757	0.0153	0.0224	0.0474
Diuron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I (*alpha*)	0.034	0.009	0.113	0.113	0.0363	0.0686	0.0533	0.112
Endosulfan II (*beta*)	0.034	0.009	0.113	0.113	0.0363	0.0686	0.0533	0.112
Endosulfan sulfate	0.034	0.009	0.113	0.113	0.0363	0.0686	0.0533	0.112
Endrin	0.037	0.002	0.123	0.0250	0.0395	0.0153	0.0224	0.0474
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.125	N/A	0.0763	0.112	0.237
Heptachlor	0.053	0.004	0.177	0.0500	0.0565	0.0305	0.0448	0.0948
Hexachlorocyclohexane (*gamma*) [Lindane]	0.16	N/A	0.533	N/A	0.171	N/A	0.250	0.530
Lead	133	5.3	1162	174	372	106	155	329
Malathion	N/A	0.01	N/A	0.125	N/A	0.0763	0.112	0.237
Mercury	2.1	1.1	7.00	13.8	2.24	8.39	3.29	6.96
Methoxychlor	N/A	0.03	N/A	0.375	N/A	0.229	0.336	0.711
Mirex	N/A	0.001	N/A	0.0125	N/A	0.00763	0.0112	0.0237
Nickel	118	13.1	393	164	126	99.9	146	310
Nonylphenol	7	1.7	23.3	21.3	7.47	13.0	10.9	23.2
Parathion (ethyl)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	15.1	9.6	50.3	120	16.1	73.2	23.6	50.0
Phenanthrene	7.7	4.6	25.7	57.5	8.21	35.1	12.0	25.5
Polychlorinated Biphenyls [PCBs]	10	0.03	33.3	0.375	10.7	0.229	0.336	0.711
Selenium	564	136	1880	1700	602	1037	884	1870
Silver	2	N/A	15.5	N/A	4.95	N/A	7.27	15.3
Toxaphene	0.21	0.0002	0.700	0.00250	0.224	0.00153	0.00224	0.00474
Tributyltin [TBT]	0.24	0.0074	0.800	0.0925	0.256	0.0564	0.0829	0.175
2,4,5 Trichlorophenol	259	12	863	150	276	91.5	134	284
Zinc	92.7	84.2	523	1781	167	1086	245	520

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Fish Only Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	115	2875	2674	3930	8315

Aldrin	1.147E-05	0.000287	0.000267	0.000392	0.000829
Anthracene	1317	32925	30620	45011	95228
Antimony	1071	26775	24901	36604	77441
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	581	14525	13508	19857	42010
Benzidine	0.107	2.68	2.49	3.65	7.73
Benzo(*a*)anthracene	0.025	0.625	0.581	0.854	1.80
Benzo(*a*)pyrene	0.0025	0.0625	0.0581	0.0854	0.180
Bis(chloromethyl)ether	0.2745	6.86	6.38	9.38	19.8
Bis(2-chloroethyl)ether	42.83	1071	996	1463	3096
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.55	189	176	258	545
Bromodichloromethane [Dichlorobromomethane]	275	6875	6394	9398	19884
Bromoform [Tribromomethane]	1060	26500	24645	36228	76645
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	46	1150	1070	1572	3326
Chlordane	0.0025	0.0625	0.0581	0.0854	0.180
Chlorobenzene	2737	68425	63635	93543	197905
Chlorodibromomethane [Dibromochloromethane]	183	4575	4255	6254	13232
Chloroform [Trichloromethane]	7697	192425	178955	263064	556550
Chromium (hexavalent)	502	12550	11672	17157	36298
Chrysene	2.52	63.0	58.6	86.1	182
Cresols [Methylphenols]	9301	232525	216248	317884	672532
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.0500	0.0465	0.0683	0.144
4,4'-DDE	0.00013	0.00325	0.00302	0.00444	0.00939
4,4'-DDT	0.0004	0.0100	0.00930	0.0136	0.0289
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	473	11825	10997	16165	34201
1,2-Dibromoethane [Ethylene Dibromide]	4.24	106	98.6	144	306
m-Dichlorobenzene [1,3-Dichlorobenzene]	595	14875	13834	20335	43022
o-Dichlorobenzene [1,2-Dichlorobenzene]	3299	82475	76702	112751	238542
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	2.24	56.0	52.1	76.5	161
1,2-Dichloroethane	364	9100	8463	12440	26319
1,1-Dichloroethylene [1,1-Dichloroethene]	55114	1377850	1281401	1883658	3985155
Dichloromethane [Methylene Chloride]	13333	333325	309992	455688	964075
1,2-Dichloropropane	259	6475	6022	8851	18727
1,3-Dichloropropene [1,3-Dichloropropylene]	119	2975	2767	4067	8604
Dicofol [Kelthane]	0.30	7.50	6.98	10.2	21.6
Dieldrin	2.0E-05	0.000500	0.000465	0.000683	0.00144
2,4-Dimethylphenol	8436	210900	196137	288321	609986
Di-*n*-Butyl Phthalate	92.4	2310	2148	3158	6681
Dioxins/Furans [TCDD Equivalents]	7.97E-08	0.0000020	0.0000019	0.0000027	0.0000058
Endrin	0.02	0.500	0.465	0.683	1.44
Epichlorohydrin	2013	50325	46802	68799	145554
Ethylbenzene	1867	46675	43408	63809	134998
Ethylene Glycol	1.68E+07	420000000	390600000	574182000	1214766000
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.0001	0.00250	0.00233	0.00341	0.00723
Heptachlor Epoxide	0.00029	0.00725	0.00674	0.00991	0.0209
Hexachlorobenzene	0.00068	0.0170	0.0158	0.0232	0.0491
Hexachlorobutadiene	0.22	5.50	5.12	7.51	15.9
Hexachlorocyclohexane (*alpha*)	0.0084	0.210	0.195	0.287	0.607

Hexachlorocyclohexane (*beta*)	0.26	6.50	6.05	8.88	18.7
Hexachlorocyclohexane (*gamma*) [Lindane]	0.341	8.53	7.93	11.6	24.6
Hexachlorocyclopentadiene	11.6	290	270	396	838
Hexachloroethane	2.33	58.3	54.2	79.6	168
Hexachlorophene	2.90	72.5	67.4	99.1	209
4,4'-Isopropylidenediphenol [Bisphenol A]	15982	399550	371582	546224	1155618
Lead	3.83	251	233	343	726
Mercury	0.0250	0.625	0.581	0.854	1.80
Methoxychlor	3.0	75.0	69.8	102	216
Methyl Ethyl Ketone	9.92E+05	24800000	23064000	33904080	71729040
Methyl *tert*-butyl ether [MTBE]	10482	262050	243707	358248	757927
Nickel	1140	28500	26505	38962	82430
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	1873	46825	43547	64014	135431
N-Nitrosodiethylamine	2.1	52.5	48.8	71.7	151
N-Nitroso-di-*n*-Butylamine	4.2	105	97.7	143	303
Pentachlorobenzene	0.355	8.88	8.25	12.1	25.6
Pentachlorophenol	0.29	7.25	6.74	9.91	20.9
Polychlorinated Biphenyls [PCBs]	6.4E-04	0.0160	0.0149	0.0218	0.0462
Pyridine	947	23675	22018	32366	68475
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.24	6.00	5.58	8.20	17.3
1,1,2,2-Tetrachloroethane	26.35	659	613	900	1905
Tetrachloroethylene [Tetrachloroethylene]	280	7000	6510	9569	20246
Thallium	0.23	5.75	5.35	7.86	16.6
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.275	0.256	0.375	0.795
2,4,5-TP [Silvex]	369	9225	8579	12611	26681
1,1,1-Trichloroethane	784354	19608850	18236231	26807258	56714676
1,1,2-Trichloroethane	166	4150	3860	5673	12003
Trichloroethylene [Trichloroethene]	71.9	1798	1672	2457	5198
2,4,5-Trichlorophenol	1867	46675	43408	63809	134998
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	16.5	413	384	563	1193

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

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrolein	N/A	N/A
Aldrin	1.42	1.73
Aluminum	N/A	N/A
Arsenic	163	198
Cadmium	43.9	53.3
Carbaryl	672	817
Chlordane	0.0313	0.0381
Chlorpyrifos	0.0120	0.0146
Chromium (trivalent)	N/A	N/A
Chromium (hexavalent)	389	472
Copper	16.8	20.4
Copper (oyster waters)	N/A	N/A
Cyanide (free)	6.14	7.46
4,4'-DDT	0.00784	0.00952
Demeton	0.784	0.952

Diazinon	0.898	1.09
Dicofol [Kelthane]	N/A	N/A
Dieldrin	0.0156	0.0190
Diuron	N/A	N/A
Endosulfan I (*alpha*)	0.0373	0.0453
Endosulfan II (*beta*)	0.0373	0.0453
Endosulfan sulfate	0.0373	0.0453
Endrin	0.0156	0.0190
Guthion [Azinphos Methyl]	0.0784	0.0952
Heptachlor	0.0313	0.0381
Hexachlorocyclohexane (*gamma*) [Lindane]	0.175	0.213
Lead	109	132
Malathion	0.0784	0.0952
Mercury	2.30	2.79
Methoxychlor	0.235	0.285
Mirex	0.00784	0.00952
Nickel	102	124
Nonylphenol	7.68	9.32
Parathion (ethyl)	N/A	N/A
Pentachlorophenol	16.5	20.1
Phenanthrene	8.45	10.2
Polychlorinated Biphenyls [PCBs]	0.235	0.285
Selenium	619	751
Silver	5.08	6.17
Toxaphene	0.00156	0.00190
Tributyltin [TBT]	0.0580	0.0705
2,4,5 Trichlorophenol	94.1	114
Zinc	172	209

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	2751	3340
Aldrin	0.000274	0.000333
Anthracene	31508	38260
Antimony	25622	31113
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	13899	16878
Benzidine	2.55	3.10
Benzo(*a*)anthracene	0.598	0.726
Benzo(*a*)pyrene	0.0598	0.0726
Bis(chloromethyl)ether	6.56	7.97
Bis(2-chloroethyl)ether	1024	1244
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	180	219
Bromodichloromethane [Dichlorobromomethane]	6579	7988
Bromoform [Tribromomethane]	25359	30793
Cadmium	N/A	N/A
Carbon Tetrachloride	1100	1336
Chlordane	0.0598	0.0726
Chlorobenzene	65480	79512
Chlorodibromomethane [Dibromochloromethane]	4378	5316
Chloroform [Trichloromethane]	184144	223604
Chromium (hexavalent)	12009	14583
Chrysene	60.2	73.2

Cresols [Methylphenols]	222519	270202
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0478	0.0581
4,4'-DDE	0.00311	0.00377
4,4'-DDT	0.00956	0.0116
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	11316	13741
1,2-Dibromoethane [Ethylene Dibromide]	101	123
m-Dichlorobenzene [1,3-Dichlorobenzene]	14234	17285
o-Dichlorobenzene [1,2-Dichlorobenzene]	78926	95838
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	53.5	65.0
1,2-Dichloroethane	8708	10574
1,1-Dichloroethylene [1,1-Dichloroethene]	1318561	1601109
Dichloromethane [Methylene Chloride]	318982	387335
1,2-Dichloropropane	6196	7524
1,3-Dichloropropene [1,3-Dichloropropylene]	2846	3457
Dicofol [Kelthane]	7.17	8.71
Dieldrin	0.000478	0.000581
2,4-Dimethylphenol	201824	245073
Di-*n*-Butyl Phthalate	2210	2684
Dioxins/Furans [TCDD Equivalents]	0.0000019	0.0000023
Endrin	0.478	0.581
Epichlorohydrin	48159	58479
Ethylbenzene	44666	54237
Ethylene Glycol	401927400	488054700
Fluoride	N/A	N/A
Heptachlor	0.00239	0.00290
Heptachlor Epoxide	0.00693	0.00842
Hexachlorobenzene	0.0162	0.0197
Hexachlorobutadiene	5.26	6.39
Hexachlorocyclohexane (*alpha*)	0.200	0.244
Hexachlorocyclohexane (*beta*)	6.22	7.55
Hexachlorocyclohexane (*gamma*) [Lindane]	8.15	9.90
Hexachlorocyclopentadiene	277	336
Hexachloroethane	55.7	67.6
Hexachlorophene	69.3	84.2
4,4'-Isopropylidenediphenol [Bisphenol A]	382357	464291
Lead	240	291
Mercury	0.598	0.726
Methoxychlor	71.7	87.1
Methyl Ethyl Ketone	23732856	28818468
Methyl *tert*-butyl ether [MTBE]	250773	304511
Nickel	27273	33117
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	44810	54412
N-Nitrosodiethylamine	50.2	61.0
N-Nitroso-di-*n*-Butylamine	100	122
Pentachlorobenzene	8.49	10.3
Pentachlorophenol	6.93	8.42
Polychlorinated Biphenyls [PCBs]	0.0153	0.0185
Pyridine	22656	27511
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	5.74	6.97
1,1,2,2-Tetrachloroethane	630	765

Tetrachloroethylene [Tetrachloroethylene]	6698	8134
Thallium	5.50	6.68
Toluene	N/A	N/A
Toxaphene	0.263	0.319
2,4,5-TP [Silvex]	8828	10719
1,1,1-Trichloroethane	18765081	22786170
1,1,2-Trichloroethane	3971	4822
Trichloroethylene [Trichloroethene]	1720	2088
2,4,5-Trichlorophenol	44666	54237
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	394	479