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 *

* **NOTE:** This application was declared Administratively Complete before June 1, 2024. The application materials, draft permit, and technical summary or fact sheet are available for review at the Public Viewing Location provided in the NAPD.

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 **

** **NOTA:** Esta solicitud se declaró administrativamente completa antes del 1 de junio de 2024. Los materiales de la solicitud, el proyecto de permiso, y los resumen técnico u hoja de datos están disponibles para revisión en la ubicación de consulta pública que se indica en el NAPD.

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

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

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

If you are subject to the alternative language notice requirements in 30 Texas Administrative Code §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 INDUSTRIAL 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 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.

Pilgrim's Pride Corporation (CN601276660) operates the Pilgrim's Pride Southwest Wastewater Treatment Plant RN102184041, a wastewater treatment plant treating industrial wastewater from poultry processing operations and a number of private residences. The facility is located at 664 FM 127 W, in Mt. Pleasant, Titus County, Texas 75455. This application is for a renewal of Wastewater Permit W0003017000 to discharge 3,500,000 gallons per day of treated effluent via Outfall 001.

Discharges from the facility are expected to contain pollutants listed in 40 CFR Part 432 including: 5-day biochemical oxygen demand, fecal coliform, oil and grease, total suspended solids, ammonia, total nitrogen, pH, and temperature. Additional potential pollutants from this discharge are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.Wastewater treated at this facility consists of a combination of process wastewaters from poultry first and further processing and protein conversion (rendering) operations along with industrial stormwater discharges from these operations and sanitary wastewater from a small number of private residences. Wastewater from these sources is treated by initial screening, biological treatment via anaerobic, anoxic/oxic, and aeration basins/lagoons, final clarification, tertiary filtration, chlorination, and dechlorination prior to discharge.

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

AGUAS RESIDUALES INDUSTRIALES/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 son representaciones federales exigibles de la solicitud de permiso.

Pilgrim's Pride Corporation (CN601276660) opera la planta de tratamiento de aguas residuales de Pilgrim's Pride Southwest RN102184041, una planta de tratamiento de aguas residuales que trata las aguas residuales industriales de las operaciones de procesamiento de aves y varias residencias privadas. La instalación está ubicada en 664 FM 127 W, en Mt. Pleasant, condado de Titus, Texas 75455. Esta solicitud es para renovar el permiso de aguas residuales W0003017000 para descargar 3,500,000 galones por día de efluentes tratados a través del Outfall 001.

Se espera que las descargas de la instalación contengan contaminantes enumerados en 40 CFR Part 432, que incluyen: demanda bioquímica de oxígeno de 5 días, coliformes fecales, aceite y grasa, sólidos suspendidos totales, amoníaco, nitrógeno total, pH y temperatura. Los posibles contaminantes adicionales de esta descarga se incluyen en el Industrial Wastewater Application Technical Report, Worksheet 2.0. Las aguas residuales tratadas en esta instalación son una combinación de aguas residuales de proceso de las operaciones de conversión (rendimiento) de proteínas y primer procesamiento de aves de corral junto con descargas de aguas pluviales industriales de estas operaciones y aguas residuales sanitarias de una pequeña cantidad de residencias privadas. Las aguas residuales de estas fuentes son tratadas mediante procesos físicos/químicos y biológicos de tratamiento de aguas residuales.

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.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0014546001

APPLICATION. Brazoria County Municipal Utility District No. 31, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014546001 (EPA I.D. No. TX0126951) to authorize the addition of acreage to the plant site and the discharge of treated domestic wastewater at a volume not to exceed an annual average flow of 2,000,000 gallons per day. The domestic wastewater treatment facility is located at 2401 County Road 57, in Brazoria County, Texas 77583. The discharge route is from the plant site to a Brazoria County Drainage District 5 ditch, thence to an unnamed tributary, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal. TCEQ received this application on December 1, 2023. The permit application will be available for viewing and copying at Manvel Library, 20514B Highway 6, Manvel, Texas prior to the date this notice is published in the newspaper. 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=-95.43879,29.455264&level=18

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.

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.**

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. 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 Brazoria County Municipal Utility District No. 31 at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers, Inc., at 281-373-0500.

Issuance Date: January 19, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ0014546001

SOLICITUD. Distrito Municipal de Servicios Publicos del Condado de Brazoria Numero 31, 3200 Autopista Suroeste, Oficina 2600, Houston, Tejas 77027, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) modificar el propuesto Permiso No. WQ0014546001 (EPA I.D. No. TX 0126951) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la adición de superficie al sitio de la planta y la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio anual de 2,000,000 galones por día. La planta está ubicada a 2401 Carretera del Condado 57, en el Condado de Brazoria, Texas 77583. La ruta de descarga es del sitio de la planta a una zanja del Distrito 5 de Drenaje del Condado de Brazoria, de ahí a un tributario sin nombre; de ahi a West Fork Chocolate Bayou; de ahí a Chocolate Bayou por encima de la marea. La TCEQ recibió esta solicitud el 1 de diciembre de 2023. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca de Manvel, 20514B, Autopista 6, Manvel, Tejas, antes de la fecha de publicación de este aviso en el periódico. 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=-95.43879,29.455264&level=18

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

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

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

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

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

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

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

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía

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

También se puede obtener información adicional del Distrito Municipal de Servicios Publicos del Condado de Brazoria Numero 31 a la dirección indicada arriba o llamando a Shelley Young, P.E., WaterEngineers,Inc. al 281-373-0500.

Fecha de emisión el 19 de enero de 2024

Texas Commission on Environmental Quality

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

AMENDMENT

PERMIT NO. WQ0014546001

APPLICATION AND PRELIMINARY DECISION. City of Iowa Colony, 3144 Meridiana Parkway, Iowa Colony, Texas 77583, has applied to the Texas Commission on Environmental Quality (TCEQ) for a major amendment to Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014546001 to revise the discharge route by adding a series of detention ponds to the discharge route. The current permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2,000,000 gallons per day. TCEQ received this application on December 1, 2023.

The facility is located at 2401 County Road 57, in Brazoria County, Texas 77583. **Existing Discharge Route:** The treated effluent is discharged to Brazoria County Drainage District (BCDD) 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. **New Discharge Route:** The treated effluent is discharged to a ditch, thence to a series of detention ponds, thence to BCDD 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. The unclassified receiving water uses are minimal aquatic life use for the ditch and the BCDD 5 Ditch No. 101-10-00, limited aquatic life use for the detention ponds, and high aquatic life use for West Fork Chocolate Bayou. The designated uses for Segment No. 1108 are primary contact recreation and high aquatic life use. In accordance with 30 Texas Administrative Code Section 307.5 and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in West Fork Chocolate Bayou, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. 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=-95.43879,29.455264&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 Manvel Library, 20514B Highway 6, Manvel, Texas.

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.**

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 Iowa Colony at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers, Inc., at 281-373-0500.

Issuance Date: June 6, 2025

Comisión de Calidad Ambiental de Texas

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

MODIFICACION

PERMISO NO. WQ0014546001

SOLICITUD Y DECISIÓN PRELIMINAR. Ciudad de Iowa Colony, 3144 Meridiana Parkway, Iowa Colony, Texas 77583, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ, por sus siglas en inglés) una enmienda importante al Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES, por sus siglas en inglés) Permiso No. WQ0014546001 para revisar la ruta de descarga añadiendo una serie de puntos de detención a la ruta de descarga. El permiso actual autoriza la descarga de aguas residuales domésticas tratadas de un flujo medio anual medio que no exceda los 2,000,000 galones por día. La TCEQ recibió esta solicitud en el 1 de diciembre de 2023.

La instalación estará ubicada a 2401 Camino de Condado 57, en el Condado de Brazoria, Texas 77583. **Ruta de Descarga Existente:** El efluente tratado será descargado a Zanja del Distrito de Drenaje Numbero 5 del Condado de Brazoria (BCDD 5) 101-10-00, de ahí a West Fork Chocolate Bayou, de ahí a Chocolate Bayou por encima de la marea en el Segmento No. 1108 de la Cuenca Costera de San Jacinto-Brazos. **Nueva Ruta de Descarga:** El efluente tratado será descargado a una zanja, de ahí a una serie de estanques de detención; de ahí a Zanja del BCDD 5 101-10-00, de ahí a West Fork Chocolate Bayou, de ahí a Chocolate Bayou por encima de la marea en el Segmento No. 1108 de la Cuenca Costera de San Jacinto-Brazos. Los usos no clasificados de las aguas receptoras son minimos usos de la vida acuatica para una zanja y Zanja de BCDD5 101-10-00, limitados usos de la vida acuatica para los estanques de detencion y elevados usos de la vida acuatica para West Fork Chocolate Bayou. Los usos designados para el Segmento No. 1108 son elevados usos de vida acuática y recreación contacto primaria. De acuerdo con la 30 TAC §307.5 y los procedimientos de implementación de la TCEQ (enero 2010) para las Normas de Calidad de Aguas Superficiales en Texas, fue realizada una revisión de la antidegradación de las aguas recibidas. Una revisión de antidegradación del Nivel 1 ha determinado preliminarmente que los usos de la calidad del agua existente no serán perjudicados por la acción de este permiso. Se mantendrá un criterio narrativo y numérico para proteger los usos existentes. Una revisión del Nivel 2 ha determinado preliminarmente que no se espera ninguna degradación significativa en West Fork Chocolate Bayou, el cual se ha identificado que tiene elevados usos en la vida acuática. Los usos existentes serán mantenidos y protegidos. La determinación preliminar puede ser reexaminada y puede ser modificada, si se recibe alguna información nueva. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.43879,29.455264&level=18

El Director Ejecutivo de la TCEQ ha concluido el examen técnico de la solicitud y ha preparado un bosquejo de permiso. El bosquejo de permiso, de ser aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado la decisión preliminar de que este permiso, si se emite, cumple con todos los requisitos legales y reglamentarios. La solicitud de permiso, la decisión preliminar del Director Ejecutivo y el bosquejo del permiso están disponibles para ver y copiar en Biblioteca de Manvel, 20514B, Autopista 6, Manvel, Tejas.

AVISO DE IDIOMA ALTERNATIVO. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

COMENTARIO PÚBLICO / REUNIÓN PÚBLICA. Puede enviar comentarios públicos o solicitar una reunión pública sobre esta solicitud. El propósito de una reunión pública es para brindar la oportunidad de enviar comentarios o hacer preguntas sobre la solicitud. La TCEQ convoca una reunión pública si el Director Ejecutivo determina que existe un grado significativo de interés público en la solicitud o si lo solicita un legislador local. Una reunión pública no es una audiencia de caso impugnado.

OPORTUNIDAD PARA UNA AUDIENCIA DE CASO IMPUGNADO. Después de la fecha límite para presentar comentarios públicos, el Director Ejecutivo considerará los comentarios y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. **A menos que la solicitud sea remitida directamente para una audiencia de caso impugnado, la respuesta a los comentarios se enviará por correo a todos los que enviaron comentarios públicos y a aquellas personas que estén en la lista de correo para esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia de caso impugnado o reconsiderar la decisión del Director Ejecutivo.** Una audiencia de caso impugnado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

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.

Tras el cierre de todos los periodos de comentarios y solicitudes aplicables, el Director Ejecutivo remitirá la solicitud y cualquier solicitud de reconsideración o de una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración en 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.

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir la aprobación final de la solicitud a menos que se presente una solicitud de audiencia de caso impugnado oportunamente o una solicitud de reconsideración. Si se presenta una solicitud de audiencia oportuna o una solicitud de reconsideración, el Director Ejecutivo no emitirá la aprobación final del permiso y enviará la solicitud y la solicitud a los Comisionados de TCEQ para su consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si envía comentarios públicos, una solicitud de una audiencia de caso impugnado o una reconsideración de la decisión del Director Ejecutivo, se le agregará a la lista de correo de esta solicitud específica para recibir futuros avisos públicos enviados por correo por la Oficina del Secretario Oficial. Además, puede solicitar ser colocado en: (1) la lista de correo permanente para un nombre de solicitante específico y número de permiso; y/o (2) la lista de correo para un condado específico. Si desea ser colocado en la lista de correo permanente y / o del condado, especifique claramente qué lista (s) y envíe su solicitud a la Oficina del Secretario Oficial de la TCEQ a la dirección a continuación.

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

INFORMACIÓN DISPONIBLE EN LÍNEA. Para obtener detalles sobre el estado de la solicitud, visite la Base de Datos Integrada de los Comisionados en 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 www.tceq.texas.gov/goto/comment, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a la TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de TCEQ, línea gratuita, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener más información de Ciudad de Iowa Colony en la dirección indicada anteriormente o llamando a Shelley Young, P.E., WaterEngineers, Inc., al 281-373-0500.

Fecha de Emision: 6 de junio de 2025

TPDES PERMIT NO.
WQ0014546001
[For TCEQ office use only - EPA I.D. No. TX0126951]

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

This major amendment with renewal supersedes and replaces TPDES Permit No. WQ0014546001 issued on June 26, 2019.

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

City of Iowa Colony

whose mailing address is

3144 Meridiana Parkway
Iowa Colony, Texas 77583

is authorized to treat and discharge wastes from the Brazoria County MUD 31 Wastewater Treatment Facility, SIC Code 4952

located at 2401 County Road 57, in Brazoria County, Texas 77583

Existing Discharge Route: to Brazoria County Drainage District (BCDD) 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin

New Discharge Route: to a ditch, thence to a series of detention ponds, thence to BCDD 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin (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, **five years from the date of issuance**.

ISSUED DATE:

For the Commission

INTERIM I EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through two years and 364 days, the permittee is authorized to discharge subject to the following effluent limitations:

   The daily average flow of effluent shall not exceed 0.90 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,500 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (75)	12	22	32	One/week	Composite
Total Suspended Solids	15 (113)	20	40	60	One/week	Composite
Ammonia Nitrogen	3 (23)	5	10	15	One/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Two/month	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 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. 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 twice per month 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 4.0 mg/l and shall be monitored once per week by grab sample.

INTERIM II EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon three years from the date of issuance and lasting through the completion of expansion to the 1.15 million gallons per day (MGD) facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The daily average flow of effluent shall not exceed 0.90 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,500 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (53)	12	22	32	One/week	Composite
Total Suspended Solids	12 (90)	20	40	60	One/week	Composite
Ammonia Nitrogen	2 (15)	5	10	15	One/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Two/month	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 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. 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 twice per month 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 4.0 mg/l and shall be monitored once per week by grab sample.

INTERIM II EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the 1.15 million gallons per day (MGD) facility and lasting through the completion of expansion to the 2.0 MGD facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 1.15 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,194 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (67)	12	22	32	Two/week	Composite
Total Suspended Solids	12 (120)	20	40	60	Two/week	Composite
Ammonia Nitrogen	2 (19)	5	10	15	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

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

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the 2.0 million gallons per day (MGD) facility and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 2.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 5,556 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	5 (83)	10	20	30	Two/week	Composite
Total Suspended Solids	5 (83)	10	20	30	Two/week	Composite
Ammonia Nitrogen	2 (33)	5	10	15	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

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

DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

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

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

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

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

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

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

2. Concentration Measurements

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

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

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

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

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

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

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

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

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

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

3. Sample Type

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

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

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

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

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

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

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

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

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

2. Test Procedures

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

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

3. Records of Results

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

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

c. Records of monitoring activities shall include the following:

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

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

   iii. date and time of analysis;

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

   v. the technique or method of analysis; and

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

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

Division (MC 224).

7. Noncompliance Notification

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

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

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

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

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

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

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

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

9. Changes in Discharges of Toxic Substances

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

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

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

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

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

   iv. The level established by the TCEQ.

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

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

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

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

   iv. The level established by the TCEQ.

10. Signatories to Reports

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

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

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

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

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

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

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

PERMIT CONDITIONS

1. General

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

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

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

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

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

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

2. Compliance

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

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

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

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

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

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

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

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

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

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

3. Inspections and Entry

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

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

4. Permit Amendment and/or Renewal

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

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

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

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

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

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

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

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

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

regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

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

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

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

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

       i. the permittee;

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

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

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

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

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

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

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

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

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

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

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

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

6. The permittee shall remit an annual water quality fee to the Commission as required by 30

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

7. Documentation

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

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

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

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

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

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

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

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

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

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

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

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

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

    e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well,

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

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

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

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

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

TCEQ Revision 06/2020

SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does 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 once during the term of this permit in the Interim I and II phases; annually in the Interim III and Final phases 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	- once during the term of this permit in the Interim I and II phases; annually in the Interim II and Final phases
PCBs	- once during the term of this permit in the Interim I and II phases; annually in the Interim III and Final phases

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

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

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

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

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

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

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

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

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

A. Pollutant Limits

Table 2

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

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

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

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

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

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

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

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

D. Notification Requirements

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

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

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

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

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

E. Record Keeping Requirements

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

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

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

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

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

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

5. The following certification statement:

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

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

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

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

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

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

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

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

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

F. Reporting Requirements

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

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

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

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

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

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

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

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

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

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

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

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

D. Sewage sludge or biosolids shall be tested once during the term of this permit in the Interim I and II phases; annually in the Interim III and Final phases 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.

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

F. Record Keeping Requirements

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

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

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

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

G. Reporting Requirements

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

TCEQ Revision 06/2020

OTHER REQUIREMENTS

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

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

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

3. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

4. On April 4, 2024, the permittee submitted sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3). The buffer zone is being met by drainage easement to the north of the existing treatment trains and in the middle of the two treatment facility sites. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). (See Attachment A.)

5. Within 120 days from permit issuance for the Interim II phase and prior to construction of the treatment facilities for Interim III and Final phases, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications, and a final engineering design report which comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Page 2a, 2b, and 2c of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this

permit, two/month may be reduced to one/month in the Interim I and II phases and one/week may be reduced to two/month in the Interim III and Final phases. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

7. The permittee shall notify the TCEQ Regional Office (MC Region 12) and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five days prior to the completion of the new facility on Notification of Completion Form 20007.

8. The permittee shall achieve compliance with the Interim II permitted effluent limitations for $CBOD_5$, TSS, NH_3-N required on Page 2a of the permit in accordance with the following schedule for the construction of treatment facilities.

   The permittee shall submit quarterly progress reports in accordance with the following schedule. The requirement to submit quarterly progress reports shall expire three years from the date of permit issuance.

   PROGRESS REPORT DATES
   January 1
   April 1
   July 1
   October 1

   The quarterly progress reports shall include a discussion of the interim requirements that have been completed at the time of the report and shall address the progress towards attaining the water quality-based final effluent limitations included on page 2b for Outfall 001 no later than three years from the date of permit issuance.

   Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement. All reports shall be submitted to the TCEQ Regional Office (MC Region 9) and the Water Quality Compliance Monitoring Team of the Enforcement Division (MC 224) of the TCEQ.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The following pollutants may not be introduced into the treatment facility:

   a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;

   b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;

   c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;

   d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;

   e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;

   f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;

   g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and

   h. Any trucked or hauled pollutants except at discharge points designated by the POTW.

2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*].

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

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

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

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

Revised July 2007

BIOMONITORING REQUIREMENTS

CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER

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

1. Scope, Frequency, and Methodology

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

   b. Within 90 days of initial discharge of the 1.15 interim phase facility, the permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:

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

      2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

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

   c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 31%, 42%, 56%, 74%, and 100% effluent. The critical dilution, defined as 74% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

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

   e. Testing Frequency Reduction

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

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

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

2. Required Toxicity Testing Conditions

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

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

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

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

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

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

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

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

b. Statistical Interpretation

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

2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent

dilution shall be in accordance with the manual referenced in Part 1.b..

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

4) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

5) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control (0% effluent).

6) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.

7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.

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

c. Dilution Water

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

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

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

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

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

b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); and

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

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

d. Samples and Composites

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

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

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

4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the

effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

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

3. Reporting

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

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

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

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

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

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

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

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

1) For the water flea, Parameter TLP3B, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

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

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

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

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

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

7) For the fathead minnow, Parameter TLP6C, enter a “1” if the NOEC for

survival is less than the critical dilution; otherwise, enter a "0."

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

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

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

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

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

d. Enter the following codes for retests only:

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

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

4. Persistent Toxicity

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

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

b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

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

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

d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

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

5. Toxicity Reduction Evaluation

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

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

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled “Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I” (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled “Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity” (EPA/600/R-92/080) and “Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity” (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

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

specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ ____ TO: _____

No. 3 FROM:_____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	31%	42%	56%	74%	100%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)
Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

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

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

   CRITICAL DILUTION (74%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	31%	42%	56%	74%	100%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

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

   CRITICAL DILUTION (74%): _____ YES _____ NO

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

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
31%							
42%							
56%							
74%							
100%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

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

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

   CRITICAL DILUTION (74%): _____ YES _____ NO

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
31%									
42%									
56%									
74%									
100%									

* Coefficient of Variation = standard deviation x 100/mean

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

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

   CRITICAL DILUTION (74%): _____ YES _____ NO

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

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for WET testing.

1. Scope, Frequency, and Methodology

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

b. Within 90 days of initial discharge of the 1.15 interim phase facility, the toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

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

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

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. Except as discussed in item 2.b., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

d. This permit may be amended to require a WET limit, a Best Management Practice (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation after multiple toxic events.

e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this Section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in item a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted

to comply with the minimum testing frequency defined in item b.

2. Required Toxicity Testing Conditions

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

b. Dilution Water - In accordance with item 1.c., the control and dilution water shall normally consist of standard, synthetic, moderately hard, reconstituted water. If the permittee utilizes the results of a chronic test to satisfy the requirements in item 1.e., the permittee may use the receiving water or dilution water that meets the requirements of item 2.a as the control and dilution water.

c. Samples and Composites

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

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

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

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

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

3. Reporting

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

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

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

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

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

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

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

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

d. Enter the following codes for retests only:

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

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

4. Persistent Mortality

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

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

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

5. Toxicity Reduction Evaluation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

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

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

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

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

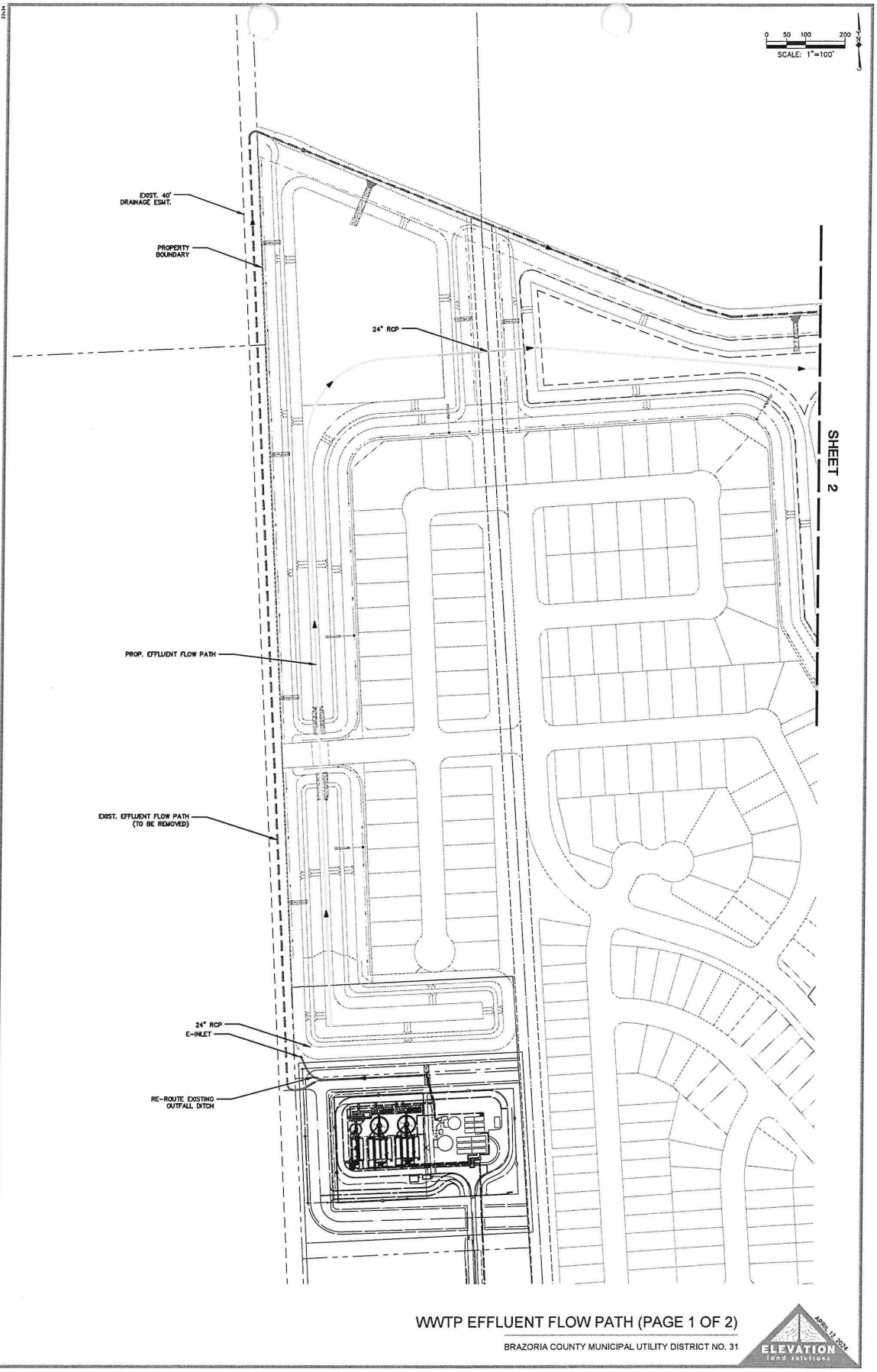
PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

Attachment A – Discharge Route
TPDES Permit No. WQ0014546001
City of Iowa Colony



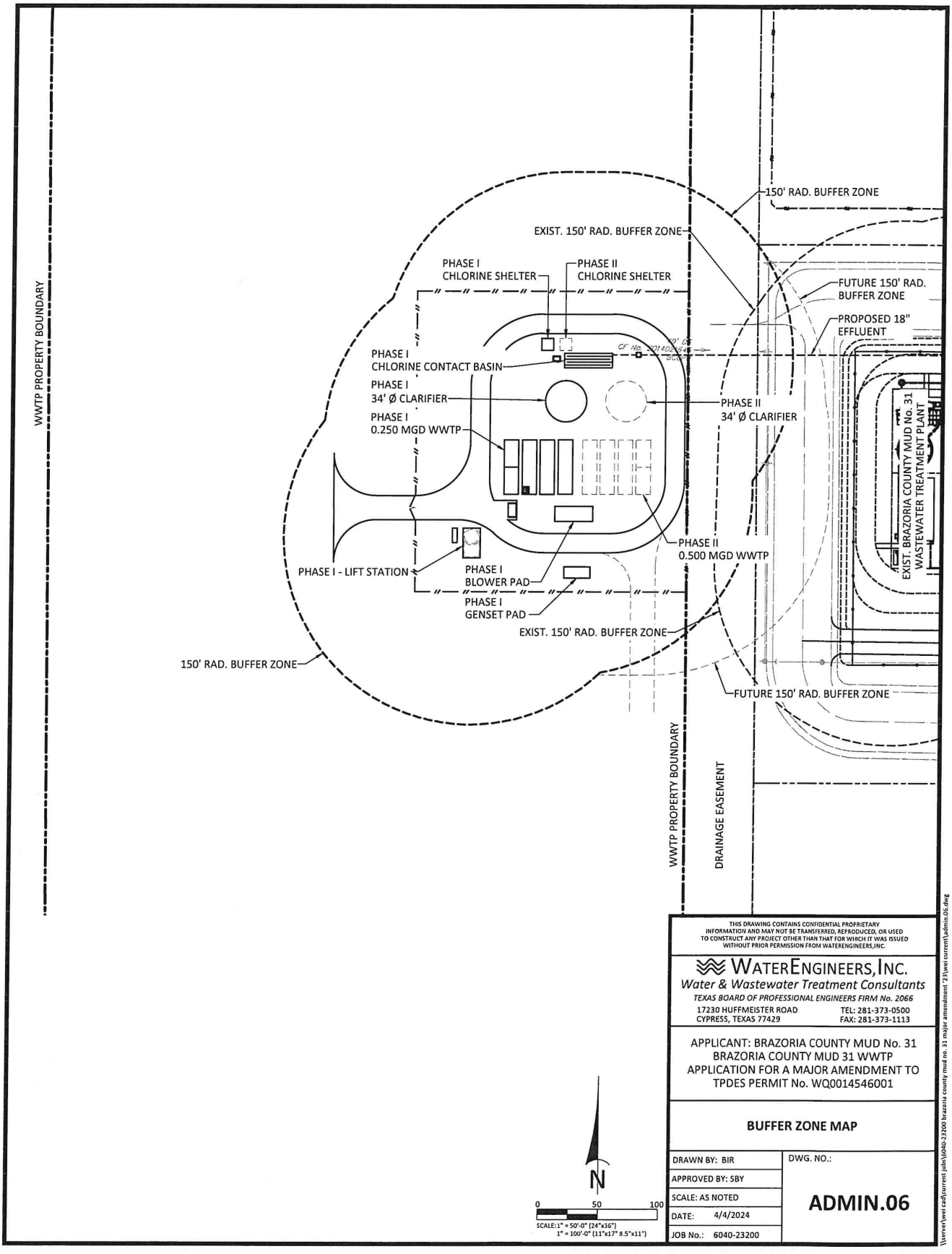
WWTP EFFLUENT FLOW PATH (PAGE 1 OF 2)

BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 31

APRIL 12, 2024

ELEVATION land solutions

Attachment B – Buffer Zone Map
TPDES Permit No. WQ0014546001
City of Iowa Colony



WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO
TPDES PERMIT No. WQ0014546001

BUFFER ZONE MAP

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	**ADMIN.06**
SCALE: AS NOTED	
DATE: 4/4/2024	
JOB No.: 6040-23200	

\\server\wei carl\current john\6040-23200 brazoria county mud no. 31 major amendment '23\wei current\admin.06.dwg

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014546001, EPA I.D. No. TX0126951, 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 Iowa Colony
3144 Meridiana Parkway
Iowa Colony, Texas 77583

Prepared By: Kimberly Kendall, P.E.
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-4540

Date: May 9, 2025

Permit Action: Major Amendment with Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

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

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for an amendment of the existing permit to revise the discharge route by adding a series of detention ponds to the discharge route. The existing wastewater treatment facility serves the Sterling Lakes, Sterling Lakes North, and Sierra Vista subdivisions.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 2401 County Road 57, in Brazoria County, Texas 77583.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.455708 N	95.438628 W

Existing Discharge Route: The treated effluent is discharged to Brazoria County Drainage District (BCDD) 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. **New Discharge Route:** The treated effluent is discharged to a ditch, thence to a series of detention ponds, thence to BCDD 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108

of the San Jacinto-Brazos Coastal Basin. The unclassified receiving water uses are minimal aquatic life use for the ditch, limited aquatic life use for the detention ponds, minimal aquatic life use for BCDD 5 Ditch No. 101-10-00, and high aquatic life use for West Fork Chocolate Bayou. The designated uses for Segment No. 1108 are primary contact recreation and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Brazoria County MUD 31 Wastewater Treatment Facility is an activated sludge process plant operated in the complete mix mode. Interim I phase consists of five trains with the flow being split proportionally to each train. Treatment units in the Interim I phase include an on-site lift station, a bar screen, eleven aeration basins, five final clarifiers, eleven sludge digesters, five chlorine contact chambers and dechlorination chamber. Interim II phase will add a sixth train. Treatment units in the Interim II phase will add an on-site lift station, a bar screen, three aeration basins, a final clarifier, two sludge digesters, a chlorine contact chambers and dechlorination chamber. The Final phase will add replicas of Train No. 6. The facility is operating in the Interim I phase.

Sludge generated from the treatment facility is hauled by a registered transporter to Richey Road Sludge Processing Facility, Permit No. WQ0004810000, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. 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 Brazoria County MUD 31 WWTP does not appear to receive significant industrial wastewater contributions. Based on the information provided by the permittee in the most recent TPDES permit application, the TCEQ determined that there are no significant industrial wastewater contributions currently being discharged to the permittee's POTW.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period November 2021 through November 2023**.** The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), and ammonia nitrogen (NH_3-N). The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	0.33
$CBOD_5$, mg/l	2.5
TSS, mg/l	2.6
NH_3-N, mg/l	0.34
E. coli, CFU or MPN per 100 ml	1

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

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

A. INTERIM I PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The daily average flow of effluent shall not exceed 0.90 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,500 gallons per minute (gpm).

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	75	15	25
TSS	15	113	25	40
NH_3-N	3	15	6	10
DO (minimum)	4.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month 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 and shall not exceed a total chlorine residual of 4.0 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. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

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

B. INTERIM II PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The daily average flow of effluent shall not exceed 0.90 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,500 gallons per minute (gpm).

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l

$CBOD_5$	7	53	12	22
TSS	12	90	20	40
NH_3-N	2	15	5	10
DO (minimum)	4.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month 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 and shall not exceed a total chlorine residual of 4.0 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. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

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

C. INTERIM III PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 1.15 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,194 gpm.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	7	67	12	22
TSS	12	120	20	40
NH_3-N	2	19	5	10
DO (minimum)	6.0	N/A	N/A	N/A
E. coli, CFU or MPN/100 ml	126	N/A	N/A	399

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

The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine

residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

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

D. FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 2.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 5,556 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	5	83	10	20
TSS	5	83	10	20
NH_3-N	2	33	5	10
DO (minimum)	6.0	N/A	N/A	N/A
E. coli, CFU or MPN/100 ml	126	N/A	N/A	399

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

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

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

E. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter to Richey Road Sludge Processing Facility, Permit No. WQ0004810000, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. 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.

F. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of Pollution" *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798].* The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

G. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 31%, 42%, 56%, 74%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 74% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

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

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

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

H. SUMMARY OF CHANGES FROM APPLICATION

The applicant requested a major amendment to the existing permit which includes effluent limits of 10 mg/l $CBOD_5$, 15 mg/l TSS, 3 mg/l NH_3-N, 126 CFU or MPN of *E. coli* per 100 ml and 4.0 mg/l minimum DO in the Interim I and II phases and 7 mg/l $CBOD_5$, 15 mg/l TSS, 2 mg/l NH_3-N and 6.0 mg/l minimum DO in the Final phase. However, the effluent limits in the Interim I and II phases of the draft permit, based on a 30-day average, are 7 mg/l $CBOD_5$, 12 mg/l TSS, 2 mg/l NH_3-N, 126 CFU or MPN of E. coli per 100 ml and 4.0 mg/l minimum DO. The effluent limitations in the Final phase of the draft permit, based on a 30-day average, are 5 mg/l $CBOD_5$, 5 mg/l TSS, 2 mg/l NH_3-N, 126 CFU or MPN of *E. coli* per 100 ml and 6.0 mg/l minimum DO.

I. SUMMARY OF CHANGES FROM EXISTING PERMIT

The applicant requested a major amendment to TPDES Permit No. WQ0014546001 to remove the currently permitted Interim I (0.48 MGD) flow phase and to add another interim (1.15 MGD) flow phase. Additionally, a series of detention ponds were added to the discharge route. More stringent effluent limitations are required in the draft permit than exist in the current permit. The monitoring frequency requirements are increased in the draft permit from the existing permit requirements.

An Interim three year compliance period is being established for $CBOD_5$, TSS, and NH_3-N at Outfall 001 according to the requirements of 30 TAC § 307.2(f) and 40 CFR § 122.47. A compliance schedule is included in the draft permit according to the requirements of 40 CFR § 122.47(a)(3). Other Requirement No. 8 was added to the draft permit for the compliance schedule.

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

The draft permit authorizes a daily average flow of 0.90 MGD in the Interim I phase, an annual average flow of 1.15 MGD in the Interim II phase, and an annual average flow of 2.0 MGD in the Final phase. The permittee is currently operating in the Interim I phase.

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.

Other Requirement No. 4 of the existing permit has been revised with the addition of the new plant site and Attachment B has been added to the draft permit.

Other Requirement No. 6 of the existing permit has been updated to correspond

with the Interim phases in the draft permit.

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

Existing Discharge Route: The treated effluent is discharged to Brazoria County Drainage District (BCDD) 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. **New Discharge Route:** The treated effluent is discharged to a ditch, thence to a series of detention ponds, thence to BCDD 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. The unclassified receiving water uses are minimal aquatic life use for the ditch and the BCDD 5 Ditch No. 101-10-00, limited aquatic life use for the detention ponds, and high aquatic life use for West Fork Chocolate Bayou. The designated uses for Segment No. 1108 are primary contact recreation and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. In accordance with 30 Texas Administrative Code Section 307.5 and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in West Fork Chocolate Bayou, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is

based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. Though the piping plover, Charadrius melodus Ord, can occur in 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. 1108 is currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list). The listing is for bacteria in water from the salt water barrier (immediately downstream of the Chocolate Bayou Rice Canal) 5.2 km (3.2 mi) downstream of State Highway (SH) 35 in Brazoria County to SH 6 in Brazoria County (Assesment Unit 1108_01). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment. In addition, in order to ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 126 CFU or MPN of *E. coli* per 100 ml has been continued in the draft permit.

The 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 consistent with the approved WQMP.

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

(3) COASTAL MANAGEMENT PLAN

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

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

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

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

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

There is no mixing zone or zone of initial dilution for this discharge directly to an intermittent stream; acute freshwater criteria apply at the end of pipe. Acute and chronic freshwater criteria are applied in the lake or reservoir.

For the intermittent stream, the percent effluent for acute protection of aquatic life is 100% because the 7Q2 of the intermittent stream is 0.0 cfs. TCEQ uses the U.S. Environmental Protection Agency horizontal jet plume model to estimate the dilution for acute and chronic protection of aquatic life for discharges into sections of lakes and reservoirs that are less than 200 feet wide. General assumptions used in the horizontal jet plume model are: a non-buoyant discharge, a submersed pipe, and no cross flow. The following critical effluent percentages are calculated based on the permitted flow of 2.0 MGD:

Acute Effluent % (stream):	100%	Chronic Effluent % (lake)	40%
Acute Effluent % (lake):	100%		

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and

a 99th 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 143 mg/l for hardness (as calcium carbonate), 115 mg/l chlorides, 7.4 standard units for pH, and 11 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 A 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

Ditch within 3 miles of a Detention Pond

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 2.0 MGD and the harmonic mean flow of 1.49 cfs for West Fork Chocolate Bayou. The following critical effluent percentage is being used:

Human Health Effluent %: 67.5%

West Fork Chocolate Bayou

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied in the lake or reservoir for a discharge to an intermittent stream that enters the lake or reservoir within 3 miles downstream of the discharge point. TCEQ uses the U.S. Environmental Protection Agency horizontal jet plume model to estimate dilution for discharges into sections of lakes or reservoirs that are less than 200 feet wide. General assumptions used in the horizontal jet plume model are: a non-buoyant discharge, a submersed pipe, and no cross flow. Based on this analysis, the following critical effluent percentage is calculated based on the permitted flow of 2.0 MGD:

Human Health Effluent %: 20%

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 A 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. 1108, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

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

The existing permit includes chronic freshwater biomonitoring requirements.

The applicant is not currently monitoring whole effluent toxicity because the requirements do not take effect until the Interim II phase. Therefore, there is no WET testing history to review. WET testing will commence within 90 days of initial discharge from the Interim II phase 1.15 MGD facility

(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.

No analytical data is available because the facility is operating in a phase with a design flow of less than 1.0 MGD.

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

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. This facility is operating in a phase with a design flow of less than 1.0 MGD. Therefore, there is no WET testing history to review.

(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 Kimberly Kendall, P.E. at (512) 239-4540.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0014546001 issued on June 26, 2019.

B. APPLICATION

Application received on December 1, 2023, and additional information received on January 16, 2024 and May 1, 2024.

C. MEMORANDA

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

D. MISCELLANEOUS

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

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

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

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

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

Attachment A: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #8 - INTERMITTENT STREAM WITHIN 3 MILES OF A LAKE/RESERVOIR

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

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

PERMIT INFORMATION

Permittee Name:	City of Iowa Colony
TPDES Permit No:	WQ0014546001
Outfall No:	001
Prepared by:	Kimberly Kendall, P.E.
Date:	5/9/25

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	a ditch
TSS (mg/L) (Intermittent):	11
pH (Standard Units) (Intermittent):	7.4
Hardness (mg/L as $CaCO_3$) (Intermittent):	143
Chloride (mg/L) (Intermittent):	115
Effluent Flow for Aquatic Life (MGD)	2.0
% Effluent for Acute Aquatic Life (Intermittent):	100
Lake/Reservoir within 3 miles:	a detention pond
Segment No.:	1108
TSS (mg/L) (Lake/Reservoir):	11
pH (Standard Units) (Lake/Reservoir):	7.4
Hardness (mg/L as $CaCO_3$) (Lake/Reservoir):	143
Chloride (mg/L) (Lake/Reservoir):	115
% Effluent for Chronic Aquatic Life (Lake/Reservoir):	40
% Effluent for Acute Aquatic Life (Lake/Reservoir):	100
Effluent Flow for Human Health (MGD):	2.0
% Effluent for Human Health (Lake/Reservoir):	20
Human Health Criterion (select: PWS, FISH, or INC)	**INC**

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

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	83134.89	0.522		1.00	Assumed
Cadmium	6.60	-1.13	264988.04	0.255		1.00	Assumed

Chromium (total)	6.52	-0.93	356044.93	0.203		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	356044.93	0.203		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	177569.93	0.339		1.00	Assumed
Lead	6.45	-0.80	413890.88	0.180		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	124855.07	0.421		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	202939.01	0.309		1.00	Assumed
Zinc	6.10	-0.70	234976.87	0.279		1.00	Assumed

Lake/Reservoir Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	83134.89	0.522		1.00	Assumed
Cadmium	6.55	-0.92	390767.76	0.189		1.00	Assumed
Chromium (total)	6.34	-0.27	##########	0.074		1.00	Assumed
Chromium (trivalent)	6.34	-0.27	##########	0.074		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.45	-0.90	325646.63	0.218		1.00	Assumed
Lead	6.31	-0.53	572877.65	0.137		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	6.34	-0.76	353623.86	0.205		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	202939.01	0.309		1.00	Assumed
Zinc	6.52	-0.68	648414.88	0.123		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (int. stream) (µg/L)*	*FW Acute Criterion (lake) (µg/L)*	*FW Chronic Criterion (lake) (µg/L)*	*WLAa (int. stream) (µg/L)*	*WLAa (lake) (µg/L)*	*WLAc (lake) (µg/L)*	*LTAa (int. stream) (µg/L)*	*LTAa (lake) (µg/L)*	*LTAc (lake) (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*

Aldrin	3.0	3.0	N/A	3.00	3.00	N/A	1.72	0.960	N/A	1.41	2.98
Aluminum	991	991	N/A	991	991	N/A	568	317	N/A	466	986
Arsenic	340	340	150	651	651	718	373	208	438	306	647
Cadmium	12.15	12.15	0.315	47.6	64.4	4.18	27.3	20.6	2.55	3.74	7.92
Carbaryl	2.0	2.0	N/A	2.00	2.00	N/A	1.15	0.640	N/A	0.940	1.99
Chlordane	2.4	2.4	0.004	2.40	2.40	0.0100	1.38	0.768	0.00610	0.00896	0.0189
Chlorpyrifos	0.083	0.083	0.041	0.0830	0.0830	0.103	0.0476	0.0266	0.0625	0.0390	0.0826
Chromium (trivalent)	764	764	99.3	3755	10383	3376	2151	3322	2060	3027	6405
Chromium (hexavalent)	15.7	15.7	10.6	15.7	15.7	26.5	9.00	5.02	16.2	7.38	15.6
Copper	19.89	19.89	12.85	58.7	91.2	147	33.7	29.2	89.8	42.8	90.7
Cyanide (free)	45.8	45.8	10.7	45.8	45.8	26.8	26.2	14.7	16.3	21.5	45.5
4,4'-DDT	1.1	1.1	0.001	1.10	1.10	0.00250	0.630	0.352	0.00153	0.00224	0.00474
Demeton	N/A	N/A	0.1	N/A	N/A	0.250	N/A	N/A	0.153	0.224	0.474
Diazinon	0.17	0.17	0.17	0.170	0.170	0.425	0.0974	0.0544	0.259	0.0799	0.169
Dicofol [Kelthane]	59.3	59.3	19.8	59.3	59.3	49.5	34.0	19.0	30.2	27.8	59.0
Dieldrin	0.24	0.24	0.002	0.240	0.240	0.00500	0.138	0.0768	0.00305	0.00448	0.00948
Diuron	210	210	70	210	210	175	120	67.2	107	98.7	208
Endosulfan I (*alpha*)	0.22	0.22	0.056	0.220	0.220	0.140	0.126	0.0704	0.0854	0.103	0.218
Endosulfan II (*beta*)	0.22	0.22	0.056	0.220	0.220	0.140	0.126	0.0704	0.0854	0.103	0.218
Endosulfan sulfate	0.22	0.22	0.056	0.220	0.220	0.140	0.126	0.0704	0.0854	0.103	0.218
Endrin	0.086	0.086	0.002	0.0860	0.0860	0.00500	0.0493	0.0275	0.00305	0.00448	0.00948
Guthion [Azinphos Methyl]	N/A	N/A	0.01	N/A	N/A	0.0250	N/A	N/A	0.0153	0.0224	0.0474
Heptachlor	0.52	0.52	0.004	0.520	0.520	0.0100	0.298	0.166	0.00610	0.00896	0.0189
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	1.126	0.08	1.13	1.13	0.200	0.645	0.360	0.122	0.179	0.379
Lead	95.1	95.1	3.71	528	694	67.7	303	222	41.3	60.6	128
Malathion	N/A	N/A	0.01	N/A	N/A	0.0250	N/A	N/A	0.0153	0.0224	0.0474
Mercury	2.4	2.4	1.3	2.40	2.40	3.25	1.38	0.768	1.98	1.12	2.38
Methoxychlor	N/A	N/A	0.03	N/A	N/A	0.0750	N/A	N/A	0.0458	0.0672	0.142
Mirex	N/A	N/A	0.001	N/A	N/A	0.00250	N/A	N/A	0.00153	0.00224	0.00474
Nickel	634	634	70.4	1504	3099	860	862	992	525	771	1632
Nonylphenol	28	28	6.6	28.0	28.0	16.5	16.0	8.96	10.1	13.1	27.8
Parathion (ethyl)	0.065	0.065	0.013	0.0650	0.0650	0.0325	0.0372	0.0208	0.0198	0.0291	0.0616
Pentachlorophenol	13.0	13.0	10.00	13.0	13.0	25.0	7.47	4.17	15.3	6.13	12.9
Phenanthrene	30	30	30	30.0	30.0	75.0	17.2	9.60	45.8	14.1	29.8
Polychlorinated Biphenyls [PCBs]	2.0	2.0	0.014	2.00	2.00	0.0350	1.15	0.640	0.0214	0.0313	0.0663
Selenium	20	20	5	20.0	20.0	12.5	11.5	6.40	7.63	9.40	19.9
Silver	0.8	0.8	N/A	24.3	24.3	N/A	13.9	7.78	N/A	11.4	24.1
Toxaphene	0.78	0.78	0.0002	0.780	0.780	0.000500	0.447	0.250	0.000305	0.000448	0.000948

Tributyltin [TBT]	0.13	0.13	0.024	0.130	0.130	0.0600	0.0745	0.0416	0.0366	0.0538	0.113
2,4,5 Trichlorophenol	136	136	64	136	136	160	77.9	43.5	97.6	63.9	135
Zinc	158.7	158.7	160.0	569	1290	3252	326	413	1984	479	1013

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	5750	5348	7860	16630
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.00057	0.000533	0.000784	0.00165
Anthracene	1109	1317	13170	65850	61241	90023	190457
Antimony	6	1071	10710	53550	49802	73208	154882
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	29050	27017	39714	84021
Benzidine	0.0015	0.107	1.07	5.35	4.98	7.31	15.4
Benzo(*a*)anthracene	0.024	0.025	0.25	1.25	1.16	1.70	3.61
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.125	0.116	0.170	0.361
Bis(chloromethyl)ether	0.0024	0.2745	2.745	13.7	12.8	18.7	39.6
Bis(2-chloroethyl)ether	0.60	42.83	428.3	2142	1992	2927	6193
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	378	351	516	1091
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	13750	12788	18797	39769
Bromoform [Tribromomethane]	66.9	1060	10600	53000	49290	72456	153291
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	2300	2139	3144	6652
Chlordane	0.0025	0.0025	0.025	0.125	0.116	0.170	0.361
Chlorobenzene	100	2737	27370	136850	127271	187087	395811
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	9150	8510	12508	26464
Chloroform [Trichloromethane]	70	7697	76970	384850	357911	526128	1113101
Chromium (hexavalent)	62	502	5020	25100	23343	34314	72596
Chrysene	2.45	2.52	25.2	126	117	172	364
Cresols [Methylphenols]	1041	9301	93010	465050	432497	635769	1345064
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.1000	0.0930	0.136	0.289
4,4'-DDE	0.00013	0.00013	0.0013	0.00650	0.00605	0.00888	0.0187
4,4'-DDT	0.0004	0.0004	0.004	0.0200	0.0186	0.0273	0.0578
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	23650	21995	32331	68402
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	212	197	289	613
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	29750	27668	40671	86045
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	164950	153404	225503	477084
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	112	104	153	323
1,2-Dichloroethane	5	364	3640	18200	16926	24881	52639

1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	2755700	2562801	3767317	7970311
Dichloromethane [Methylene Chloride]	5	13333	133330	666650	619985	911377	1928151
1,2-Dichloropropane	5	259	2590	12950	12044	17703	37455
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	5950	5534	8134	17209
Dicofol [Kelthane]	0.30	0.30	3	15.0	14.0	20.5	43.3
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.00100	0.000930	0.00136	0.00289
2,4-Dimethylphenol	444	8436	84360	421800	392274	576642	1219972
Di-*n*-Butyl Phthalate	88.9	92.4	924	4620	4297	6316	13362
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	0.0000040	0.0000037	0.0000054	0.0000115
Endrin	0.02	0.02	0.2	1.00	0.930	1.36	2.89
Epichlorohydrin	53.5	2013	20130	100650	93605	137598	291109
Ethylbenzene	700	1867	18670	93350	86816	127618	269996
Ethylene Glycol	46744	1.68E+07	1.68E+08	840000000	781200000	114836400	242953200
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.00500	0.00465	0.00683	0.0144
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0145	0.0135	0.0198	0.0419
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0340	0.0316	0.0464	0.0983
Hexachlorobutadiene	0.21	0.22	2.2	11.0	10.2	15.0	31.8
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.420	0.391	0.574	1.21
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	13.0	12.1	17.7	37.5
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	17.1	15.9	23.3	49.3
Hexachlorocyclopentadiene	10.7	11.6	116	580	539	792	1677
Hexachloroethane	1.84	2.33	23.3	117	108	159	336
Hexachlorophene	2.05	2.90	29	145	135	198	419
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	799100	743163	1092449	2311236
Lead	1.15	3.83	38.3	1398	1300	1911	4044
Mercury	0.0122	0.0122	0.122	0.610	0.567	0.833	1.76
Methoxychlor	2.92	3.0	30	150	140	205	433
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	49600000	46128000	67808160	143458080
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	524100	487413	716497	1515854
Nickel	332	1140	11400	278722	259212	381041	806148
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	93650	87095	128028	270863
N-Nitrosodiethylamine	0.0037	2.1	21	105	97.7	143	303
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	210	195	287	607
Pentachlorobenzene	0.348	0.355	3.55	17.8	16.5	24.2	51.3
Pentachlorophenol	0.22	0.29	2.9	14.5	13.5	19.8	41.9
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0320	0.0298	0.0437	0.0925
Pyridine	23	947	9470	47350	44036	64732	136950
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	12.0	11.2	16.4	34.7
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	1318	1225	1801	3810
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	14000	13020	19139	40492
Thallium	0.12	0.23	2.3	11.5	10.7	15.7	33.2
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.550	0.512	0.751	1.59

2,4,5-TP [Silvex]	50	369	3690	18450	17159	25222	53362
1,1,1-Trichloroethane	200	784354	7843540	392177 00	3647246 1	5361451 7	1134293 53
1,1,2-Trichloroethane	5	166	1660	8300	7719	11346	24006
Trichloroethylene [Trichloroethene]	5	71.9	719	3595	3343	4914	10397
2,4,5-Trichlorophenol	1039	1867	18670	93350	86816	127618	269996
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	825	767	1127	2386

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

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Aldrin	0.987	1.19
Aluminum	326	396
Arsenic	214	260
Cadmium	2.62	3.18
Carbaryl	0.658	0.799
Chlordane	0.0062 7	0.0076 2
Chlorpyrifos	0.0273	0.0331
Chromium (trivalent)	2119	2573
Chromium (hexavalent)	5.16	6.27
Copper	30.0	36.4
Cyanide (free)	15.0	18.3
4,4'-DDT	0.0015 6	0.0019 0
Demeton	0.156	0.190
Diazinon	0.0559	0.0679
Dicofol [Kelthane]	19.5	23.7
Dieldrin	0.0031 3	0.0038 1
Diuron	69.1	83.9
Endosulfan I (*alpha*)	0.0724	0.0879
Endosulfan II (*beta*)	0.0724	0.0879
Endosulfan sulfate	0.0724	0.0879
Endrin	0.0031 3	0.0038 1
Guthion [Azinphos Methyl]	0.0156	0.0190
Heptachlor	0.0062 7	0.0076 2
Hexachlorocyclohexane (*gamma*) [Lindane]	0.125	0.152
Lead	42.4	51.5
Malathion	0.0156	0.0190
Mercury	0.790	0.959
Methoxychlor	0.0470	0.0571
Mirex	0.0015 6	0.0019 0
Nickel	540	655
Nonylphenol	9.21	11.1
Parathion (ethyl)	0.0203	0.0247
Pentachlorophenol	4.29	5.21
Phenanthrene	9.87	11.9

Polychlorinated Biphenyls [PCBs]	0.0219	0.0266
Selenium	6.58	7.99
Silver	8.00	9.71
Toxaphene	0.0003 13	0.0003 81
Tributyltin [TBT]	0.0376	0.0457
2,4,5 Trichlorophenol	44.7	54.3
Zinc	335	407

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	5502	6681
Aldrin	0.0005 48	0.0006 66
Anthracene	63016	76520
Antimony	51245	62226
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	27799	33757
Benzidine	5.11	6.21
Benzo(*a*)anthracene	1.19	1.45
Benzo(*a*)pyrene	0.119	0.145
Bis(chloromethyl)ether	13.1	15.9
Bis(2-chloroethyl)ether	2049	2488
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	361	438
Bromodichloromethane [Dichlorobromomethane]	13158	15977
Bromoform [Tribromomethane]	50719	61587
Cadmium	N/A	N/A
Carbon Tetrachloride	2201	2672
Chlordane	0.119	0.145
Chlorobenzene	130961	159024
Chlorodibromomethane [Dibromochloromethane]	8756	10632
Chloroform [Trichloromethane]	368289	447209
Chromium (hexavalent)	24019	29167
Chrysene	120	146
Cresols [Methylphenols]	445038	540404
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0956	0.116
4,4'-DDE	0.0062 2	0.0075 5
4,4'-DDT	0.0191	0.0232
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	22632	27482
1,2-Dibromoethane [Ethylene Dibromide]	202	246
m-Dichlorobenzene [1,3-Dichlorobenzene]	28469	34570
o-Dichlorobenzene [1,2-Dichlorobenzene]	157852	191677
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	107	130

1,2-Dichloroethane	17416	21149
1,1-Dichloroethylene [1,1-Dichloroethene]	2637122	3202219
Dichloromethane [Methylene Chloride]	637964	774670
1,2-Dichloropropane	12392	15048
1,3-Dichloropropene [1,3-Dichloropropylene]	5693	6914
Dicofol [Kelthane]	14.3	17.4
Dieldrin	0.000956	0.00116
2,4-Dimethylphenol	403649	490146
Di-*n*-Butyl Phthalate	4421	5368
Dioxins/Furans [TCDD Equivalents]	0.0000038	0.0000046
Endrin	0.956	1.16
Epichlorohydrin	96319	116958
Ethylbenzene	89333	108475
Ethylene Glycol	803854800	976109400
Fluoride	N/A	N/A
Heptachlor	0.00478	0.00581
Heptachlor Epoxide	0.0138	0.0168
Hexachlorobenzene	0.0325	0.0395
Hexachlorobutadiene	10.5	12.7
Hexachlorocyclohexane (*alpha*)	0.401	0.488
Hexachlorocyclohexane (*beta*)	12.4	15.1
Hexachlorocyclohexane (*gamma*) [Lindane]	16.3	19.8
Hexachlorocyclopentadiene	555	673
Hexachloroethane	111	135
Hexachlorophene	138	168
4,4'-Isopropylidenediphenol [Bisphenol A]	764714	928582
Lead	1338	1624
Mercury	0.583	0.708
Methoxychlor	143	174
Methyl Ethyl Ketone	47465712	57636936
Methyl *tert*-butyl ether [MTBE]	501547	609022
Nickel	266728	323884
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	89620	108824
N-Nitrosodiethylamine	100	122
N-Nitroso-di-*n*-Butylamine	200	244
Pentachlorobenzene	16.9	20.6
Pentachlorophenol	13.8	16.8
Polychlorinated Biphenyls [PCBs]	0.0306	0.0371
Pyridine	45312	55022
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	11.4	13.9
1,1,2,2-Tetrachloroethane	1260	1530
Tetrachloroethylene [Tetrachloroethylene]	13397	16268
Thallium	11.0	13.3
Toluene	N/A	N/A
Toxaphene	0.526	0.639

2,4,5-TP [Silvex]	17656	21439
	375301	455723
1,1,1-Trichloroethane	62	40
1,1,2-Trichloroethane	7942	9644
Trichloroethylene [Trichloroethene]	3440	4177
2,4,5-Trichlorophenol	89333	108475
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	789	958

TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER

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

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

PERMIT INFORMATION

Permittee Name:	City of Iowa Colony
TPDES Permit No.:	WQ0014546001
Outfall No.:	001
Prepared by:	Kimberly Kendall, P.E.
Date:	May 9, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	West Fork Chocolate Bayou
Segment No.:	1108
TSS (mg/L):	11
pH (Standard Units):	7.4
Hardness (mg/L as $CaCO_3$):	143
Chloride (mg/L):	115
Effluent Flow for Aquatic Life (MGD):	N/A
Critical Low Flow [7Q2] (cfs):	N/A
% Effluent for Chronic Aquatic Life (Mixing Zone):	N/A
% Effluent for Acute Aquatic Life (ZID):	N/A
Effluent Flow for Human Health (MGD):	2
Harmonic Mean Flow (cfs):	1.49
% Effluent for Human Health:	67.50
Human Health Criterion (select: PWS, FISH, or INC)	**FISH**

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

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	83134.89	0.522		1.00	Assumed
Cadmium	6.60	-1.13	264988.04	0.255		1.00	Assumed
Chromium (total)	6.52	-0.93	356044.93	0.203		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	356044.93	0.203		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	177569.93	0.339		1.00	Assumed
Lead	6.45	-0.80	413890.88	0.180		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	124855.07	0.421		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	202939.01	0.309		1.00	Assumed

Zinc	6.10	-0.70	234976.87	0.279		1.00	Assumed

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	170	158	232	492
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.0000170	0.0000158	0.0000232	0.0000491
Anthracene	1109	1317	13170	1951	1815	2667	5643
Antimony	6	1071	10710	1587	1476	2169	4589
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	861	801	1176	2489
Benzidine	0.0015	0.107	1.07	0.159	0.147	0.216	0.458
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0370	0.0344	0.0506	0.107
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00370	0.00344	0.00506	0.0107
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.407	0.378	0.555	1.17
Bis(2-chloroethyl)ether	0.60	42.83	428.3	63.5	59.0	86.7	183
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	11.2	10.4	15.2	32.3
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	407	379	556	1178
Bromoform [Tribromomethane]	66.9	1060	10600	1570	1460	2146	4542
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	68.1	63.4	93.1	197
Chlordane	0.0025	0.0025	0.025	0.00370	0.00344	0.00506	0.0107
Chlorobenzene	100	2737	27370	4055	3771	5543	11727
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	271	252	370	784
Chloroform [Trichloromethane]	70	7697	76970	11403	10605	15589	32981
Chromium (hexavalent)	62	502	5020	744	692	1016	2151
Chrysene	2.45	2.52	25.2	3.73	3.47	5.10	10.7
Cresols [Methylphenols]	1041	9301	93010	13780	12815	18837	39854
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00296	0.00276	0.00405	0.00856
4,4'-DDE	0.00013	0.00013	0.0013	0.000193	0.000179	0.000263	0.000557
4,4'-DDT	0.0004	0.0004	0.004	0.000593	0.000551	0.000810	0.00171
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	701	652	958	2026
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	6.28	5.84	8.58	18.1
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	881	820	1205	2549
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	4887	4545	6681	14136
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	3.32	3.09	4.53	9.59
1,2-Dichloroethane	5	364	3640	539	502	737	1559
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	81652	75936	111626	236161
Dichloromethane [Methylene Chloride]	5	13333	133330	19753	18370	27004	57131
1,2-Dichloropropane	5	259	2590	384	357	524	1109
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	176	164	241	509
Dicofol [Kelthane]	0.30	0.30	3	0.444	0.413	0.607	1.28
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000296	0.0000276	0.0000405	0.0000856
2,4-Dimethylphenol	444	8436	84360	12498	11623	17086	36147
Di-*n*-Butyl Phthalate	88.9	92.4	924	137	127	187	395
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.18E-07	1.10E-07	1.61E-07	3.41E-07
Endrin	0.02	0.02	0.2	0.0296	0.0276	0.0405	0.0856
Epichlorohydrin	53.5	2013	20130	2982	2774	4077	8625

Ethylbenzene	700	1867	18670	2766	2572	3781	8000
Ethylene Glycol	46744	1.68E+07	1.68E+08	24889341	23147087	34026218	71987441
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000148	0.000138	0.000202	0.000428
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000430	0.000400	0.000587	0.00124
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00101	0.000937	0.00137	0.00291
Hexachlorobutadiene	0.21	0.22	2.2	0.326	0.303	0.445	0.942
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.0124	0.0116	0.0170	0.0359
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.385	0.358	0.526	1.11
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.505	0.470	0.690	1.46
Hexachlorocyclopentadiene	10.7	11.6	116	17.2	16.0	23.4	49.7
Hexachloroethane	1.84	2.33	23.3	3.45	3.21	4.71	9.98
Hexachlorophene	2.05	2.90	29	4.30	4.00	5.87	12.4
4,4'-Isopropylidenediphenol	1092	15982	159820	23677	22020	32369	68482
Lead	1.15	3.83	38.3	31.5	29.3	43.0	91.1
Mercury	0.0122	0.0122	0.122	0.0181	0.0168	0.0247	0.0522
Methoxychlor	2.92	3.0	30	4.44	4.13	6.07	12.8
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1469656	1366780	2009167	4250687
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	15529	14442	21229	44915
Nickel	332	1140	11400	4008	3728	5480	11593
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	2775	2581	3793	8025
N-Nitrosodiethylamine	0.0037	2.1	21	3.11	2.89	4.25	8.99
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	6.22	5.79	8.50	17.9
Pentachlorobenzene	0.348	0.355	3.55	0.526	0.489	0.719	1.52
Pentachlorophenol	0.22	0.29	2.9	0.430	0.400	0.587	1.24
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.000948	0.000882	0.00129	0.00274
Pyridine	23	947	9470	1403	1305	1918	4057
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.356	0.331	0.486	1.02
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	39.0	36.3	53.3	112
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	415	386	567	1199
Thallium	0.12	0.23	2.3	0.341	0.317	0.465	0.985
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0163	0.0152	0.0222	0.0471
2,4,5-TP [Silvex]	50	369	3690	547	508	747	1581
1,1,1-Trichloroethane	200	784354	7843540	1162027	1080685	1588607	3360930
1,1,2-Trichloroethane	5	166	1660	246	229	336	711
Trichloroethylene [Trichloroethene]	5	71.9	719	107	99.1	145	308
2,4,5-Trichlorophenol	1039	1867	18670	2766	2572	3781	8000
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	24.4	22.7	33.4	70.7

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	163	197
Aldrin	0.0000162	0.0000197
Anthracene	1867	2267
Antimony	1518	1843
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	823	1000
Benzidine	0.151	0.184

Benzo(*a*)anthracene	0.0354	0.0430
Benzo(*a*)pyrene	0.00354	0.00430
Bis(chloromethyl)ether	0.389	0.472
Bis(2-chloroethyl)ether	60.7	73.7
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	10.7	12.9
Bromodichloromethane [Dichlorobromomethane]	389	473
Bromoform [Tribromomethane]	1502	1824
Cadmium	N/A	N/A
Carbon Tetrachloride	65.2	79.1
Chlordane	0.00354	0.00430
Chlorobenzene	3880	4711
Chlorodibromomethane [Dibromochloromethane]	259	315
Chloroform [Trichloromethane]	10912	13250
Chromium (hexavalent)	711	864
Chrysene	3.57	4.33
Cresols [Methylphenols]	13186	16012
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00283	0.00344
4,4'-DDE	0.000184	0.000223
4,4'-DDT	0.000567	0.000688
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	670	814
1,2-Dibromoethane [Ethylene Dibromide]	6.01	7.29
m-Dichlorobenzene [1,3-Dichlorobenzene]	843	1024
o-Dichlorobenzene [1,2-Dichlorobenzene]	4677	5679
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	3.17	3.85
1,2-Dichloroethane	516	626
1,1-Dichloroethylene [1,1-Dichloroethene]	78138	94882
Dichloromethane [Methylene Chloride]	18902	22953
1,2-Dichloropropane	367	445
1,3-Dichloropropene [1,3-Dichloropropylene]	168	204
Dicofol [Kelthane]	0.425	0.516
Dieldrin	0.0000283	0.0000344
2,4-Dimethylphenol	11960	14523
Di-*n*-Butyl Phthalate	131	159
Dioxins/Furans [TCDD Equivalents]	1.12E-07	1.37E-07
Endrin	0.0283	0.0344
Epichlorohydrin	2853	3465
Ethylbenzene	2646	3214
Ethylene Glycol	23818352	28922285
Fluoride	N/A	N/A
Heptachlor	0.000141	0.000172
Heptachlor Epoxide	0.000411	0.000499
Hexachlorobenzene	0.000964	0.00117
Hexachlorobutadiene	0.311	0.378
Hexachlorocyclohexane (*alpha*)	0.0119	0.0144
Hexachlorocyclohexane (*beta*)	0.368	0.447
Hexachlorocyclohexane (*gamma*) [Lindane]	0.483	0.587
Hexachlorocyclopentadiene	16.4	19.9
Hexachloroethane	3.30	4.01
Hexachlorophene	4.11	4.99
4,4'-Isopropylidenediphenol	22658	27514
Lead	30.1	36.6

Mercury	0.0172	0.0210
Methoxychlor	4.25	5.16
Methyl Ethyl Ketone	1406417	1707792
Methyl *tert*-butyl ether [MTBE]	14860	18045
Nickel	3836	4658
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	2655	3224
N-Nitrosodiethylamine	2.97	3.61
N-Nitroso-di-*n*-Butylamine	5.95	7.23
Pentachlorobenzene	0.503	0.611
Pentachlorophenol	0.411	0.499
Polychlorinated Biphenyls [PCBs]	0.000907	0.00110
Pyridine	1342	1630
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.340	0.413
1,1,2,2-Tetrachloroethane	37.3	45.3
Tetrachloroethylene [Tetrachloroethylene]	396	482
Thallium	0.326	0.395
Toluene	N/A	N/A
Toxaphene	0.0155	0.0189
2,4,5-TP [Silvex]	523	635
1,1,1-Trichloroethane	1112025	1350316
1,1,2-Trichloroethane	235	285
Trichloroethylene [Trichloroethene]	101	123
2,4,5-Trichlorophenol	2646	3214
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	23.3	28.4

WATERENGINEERS, INC.
WATER & WASTEWATER TREATMENT CONSULTANTS
17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643
TEL: 281-373-0500 FAX: 281-373-1113

Overnight by UPS

November 30, 2023

Executive Director
Water Quality Applications Team (MC 148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

Re: Brazoria County MUD No. 31
Application for a Major Amendment with Renewal to
TPDES Permit No. WQ0014546001
Brazoria County MUD 31 Wastewater Treatment Plant in Brazoria County

Dear Sir/Ms:

Enclosed please find the original and four copies of the Application for a Major Amendment with Renewal to Texas Pollution Discharge Elimination System Permit No. WQ0014546001 for the Brazoria County MUD 31 Wastewater Treatment Plant in Brazoria County.

Please contact Shelley Young, P.E. at 281-373-0500 or at syoung@waterengineers.com if there are any questions related to the material presented in the application.

Sincerely,
WATERENGINEERS, INC.

Shelley Young

Shelley Young, P.E.

Encl: As noted

APPLICATION FOR A MAJOR AMENDMENT WITH RENEWAL TO TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM
PERMIT NO. WQ0014546001

FOR

BRAZORIA COUNTY MUD NO. 31
WASTEWATER TREATMENT PLANT

BRAZORIA COUNTY MUD NO. 31
C/O ALLEN BOONE HUMPHRIES ROBINSON
3200 SOUTHWEST FREEWAY, SUITE 2600
HOUSTON, TEXAS 77027

PREPARED BY:

WATERENGINEERS, INC.
WATER & WASTEWATER TREATMENT CONSULTANTS
17230 HUFFMEISTER ROAD, SUITE A, CYPRESS, TEXAS 77429
TEL: 281-373-0500 FAX: 281-373-1113

DECEMBER 2023

APPLICATION FOR A MAJOR AMENDMENT WITH RENEWAL

TO TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT

NO. WQ0014546001

FOR

BRAZORIA COUNTY MUD 31

WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

Attachment ADMIN.04 Affected Landowner Map and List	Administrative Report 1.1 Page 16	1
Attachment ADMIN.05 Site Photographs	Administrative Report 1.1 Page 17	2
Attachment ADMIN.06 Buffer Zone Map	Administrative Report 1.1 Page 17	3A
Attachment ADMIN.07 Public Involvement Plan	Administrative Report 1.0 Page 8	8F
Attachment SPIF.01 USGS Topographic Map	SPIF Page 19	5
Attachment SPIF.02 Site Drawing	SPIF Page 19	5
Attachment TECH.01 Treatment Units and Design Features for Reliability	Technical Report 1.0 Page 2	2b
Attachment TECH.02 Process Flow Diagram	Technical Report Page 2	2c
Attachment TECH.03 Site Drawing (Including Wind Rose)	Technical Report Page 3 Page 24	3 5B
Attachment TECH.04 Pollutant Analysis of Treated Effluent	Technical Report Page 11	7

ATTACHMENT ADMIN.03

Core Data Form

(Reference Administrative Report 1.0, Page 4, Section 3C)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: Brazoria County Municipal Utility District No. 31

PERMIT NUMBER: WQ0014546001

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

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

RECEIVED
DEC 0 1 2023
Water Quality Applications Team

For TCEQ Use Only

Segment Number 1108 County Brazoria
Expiration Date 6/28/2024 Region 12-Houston
Permit Number 0014546001

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 29)

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: 1224

Check/Money Order Amount: $2,050.00

Name Printed on Check: WaterEngineers, Inc.

EPAY — Voucher Number: Click here to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 29)

☐ New TPDES

☒ Major Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☐ Renewal without changes

☐ New TLAP

☐ Minor Amendment *with* Renewal

☐ Minor Amendment *without* Renewal

☐ Minor Modification of permit

For amendments or modifications, describe the proposed changes: Add additional acreage to plant site and change the Interim II discharge limit.

For existing permits:

Permit Number: WQ0014546001

EPA I.D. (TPDES only): TX0126951

Expiration Date: June 26, 2024

Section 3. Facility Owner (Applicant) and Co-Applicant Information (Instructions Page 29)

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

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

Brazoria County Municipal Utility District No. 31

(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: 602782195

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., Ms., Miss): Mr.

First and Last Name: Micah Kreikemeier

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

Title: President

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

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

N/A

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

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

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

First and Last Name: Click here to enter text

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

Title: Click here to enter text

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

C. Core Data Form

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

Attachment: ADMIN.03

Section 4. Application Contact Information (Instructions Page 30)

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., Ms., Miss): Ms.

First and Last Name: Shelley Young

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

Title: Consulting Engineer

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A

City, State, Zip Code: Cypress,TX 77429

Phone No.: 281-373-0500 Ext.: Click here to enter text. Fax No.: 281-373-1113

E-mail Address: syoung@waterengineers.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

First and Last Name: Click here to enter text.

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

Title: Click here to enter text.

Organization Name: Click here to enter text.

Mailing Address: Click here to enter text.

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

Phone No.: Click here to enter text. Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: Click here to enter text.

Check one or both: ☐ Administrative Contact ☐ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

Provide two names of individuals that can be contacted throughout the permit term.

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

First and Last Name: Micah Kreikemeier

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

Title: President

Organization Name: Brazoria County Municipal Utility District No. 31

Mailing Address: 3200 Southwest Freeway, Suite 2600

City, State, Zip Code: Houston, Texas 77027

Phone No.: 713-800-5483 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: acatalan@abhr.com

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

First and Last Name: Mike Christopher

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

Title: Engineer

Organization Name: Elevation Land Solutions

Mailing Address: 9709 Lakeside Blvd., Suite 200

City, State, Zip Code: The Woodlands, Texas 77381

Phone No.: 832-823-2214 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: mchristopher@elevationlandsolutions.com

Section 6. Billing Information (Instructions Page 30)

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., Ms., Miss): Ms.

First and Last Name: Tonya Francis

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

Title: Bookkeeper

Organization Name: McLennan & Associates

Mailing Address: 1717 St. James Place, Suite 500

City, State, Zip Code: Houston, Texas 77056

Phone No.: 713-350-2448 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: tfrancis@mclennanandassoc.com

Section 7. DMR/MER Contact Information (Instructions Page 31)

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (EPA 3320-1) or maintain Monthly Effluent Reports.

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

First and Last Name: Matt Brown

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

Title: Operations Account Manager

Organization Name: Si Environmental LLC

Mailing Address: 6420 Reading Road

City, State, Zip Code: Rosenberg, Texas 77471

Phone No.: 832-459-6554 Ext.: Fax No.: 832-490-1501

E-mail Address: mbrown@sienv.com

DMR data is required to be submitted electronically. Create an account at: https://www.tceq.texas.gov/permitting/netdmr/netdmr.html.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Shelley Young

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

Title: Consulting Engineer

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A

City, State, Zip Code: Cypress, TX 77429

Phone No.: 281-373-0500 Ext.: Fax No.: 281-373-1113

E-mail Address: syoung@waterengineers.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Shelley Young

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

Title: Consulting Engineer

Organization Name: WaterEngineers, Inc.

Phone No.: 281-373-0500 Ext.: Click here to enter text.

E-mail: syoung@waterengineers.com

D. Public Viewing Information

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

Public building name: Manvel Library

Location within the building: Reference Desk

Physical Address of Building: 20514B Highway 6

City: Manvel 77578 County: Brazoria

Contact Name: Ginny Koenig

Phone No.: 281-489-7596 Ext.: Click here to enter text.

E. Bilingual Notice Requirements:

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. 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: ADMIN.07

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 33)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN**104364096

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):

Brazoria County MUD 31 Wastewater Treatment Plant

C. Owner of treatment facility: Brazoria County MUD No. 31

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

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

Prefix (Mr., Ms., Miss):

First and Last Name: Brazoria County MUD No. 31

Mailing Address: 3200 Southwest Freeway, Suite 2600

City, State, Zip Code: Houston, Texas 77027

Phone No.: 713-800-6983 E-mail Address: acatalan@abhr.com

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:

E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss):

First and Last Name:

Mailing Address:

City, State, Zip Code:

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

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

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

First and Last Name: Click here to enter text.

Mailing Address: Click here to enter text.

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

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

Section 10. TPDES Discharge Information (Instructions Page 34)

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:

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 here to enter text.

City nearest the outfall(s): Rosharon

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

Outfall Latitude: 29.455708 Longitude: -95.438628

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 here 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.

N/A

Section 11. TLAP Disposal Information (Instructions Page 36)

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

☐ Yes ☐ No

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

N/A - Not a TLAP

B. City nearest the disposal site: Click here to enter text.

C. County in which the disposal site is located: Click here to enter text.

D. Disposal Site Latitude: Click here to enter text. Longitude: Click here to enter text.

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

Click here to enter text.

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

Click here to enter text.

Section 12. Miscellaneous Information (Instructions Page 37)

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 here 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 here to enter text.

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click here to enter text. Amount past due: Click here 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 here to enter text. Amount past due: Click here to enter text.

Section 13. Attachments (Instructions Page 38)

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: ADMIN.02-Proof of Payment, ADMIN.03-Core Data Form, ADMIN.04-Downstream & Adjacent Landowner Map and List, ADMIN.05-Site and Stream Photographs, ADMIN.06-Buffer Zone Map, ADMIN.07-Public Involvement Plan

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: ~~New~~ WQ0014546001

Applicant: Brazoria County Municipal Utility District No. 31

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): Micah Kreikemeier

Signatory title: President

Signature: _____ Date: 11/29/23

(Use blue ink)

Subscribed and Sworn to before me by the said _____

on this 29th day of November, 20 23.

My commission expires on the 28th day of August, 20 27.

_____

Notary Public

[SEAL]

ARLENE ELISE CATALAN
Notary Public, State of Texas
Comm. Expires 08-28-2027
Notary ID 132149165

Harris

County, Texas

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in 30 Texas Administrative Code §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

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.
Brazoria County Municipal Utility District No. 31 (CN 602782195) operates the Brazoria County MUD 31 Wastewater Treatment Plant (RN 104364096). an activated sludge with nitrification facility. The facility is located at 2401 County Road 57, in Rosharon, Brazoria County, Texas 77583.

This application is for a major amendment with renewal application to discharge at a daily average flow not to exceed 2,000,000 gallons per day.

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 is treated by a conventional activated sludge process plant and the treatment units include a screening facility, a flow splitter box, aeration basins, final clarifiers, sludge digesters, chlorine contact chambers, and a dechlorination chamber.

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

Distrito de Servicios Públicos Municipal Numero 31 de Condado de Brazoria LP (CN 602782195) opera la Planta de Tratamiento de Aguas Residuales de Condado de Brazoria MUD 31 (RN 104364096), un proceso de lodos activados en el modo de nitrificación de una sola etapa. La instalación está ubicada en aproximadamente 2401 Carretera de Condado 57, en Rosharon, en Condado de Brazoria County, Tejas 77583.

Esta solicitud es para una enmienda importante con una solicitud de renovación para descargar a un flujo promedio diario que no exceda los 2,000,000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días ($CBOD_5$), solidos totalmente suspendidos (TSS), nitrógeno amoniacal (NH_e-N), y *Escherichia coli*. Los contaminantes potenciales adicionales se incluyen en el Informe Técnico Domésticas 1.0, Seccion 7 Análisis de Contaminantes de Efluente Tratado en el paquete de solicitud de permisos. Las aguas residuales domésticas serán tratadas por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una instalación de pantalla, caja divisoria de flujo, balsas de aireación, clarificadores finales, digestores de lodos, cámaras de contacto de cloro y cuenca de declaración.

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

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 in which format the landowners list is submitted:

☒ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Brazoria County Appraisal District

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 here to enter text.

Section 2. Original Photographs (Instructions Page 44)

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 44)

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION

DOMESTIC TECHNICAL REPORT 1.0

The Following Is Required For All Applications

Renewal, New, And Amendment

Section 1. Permitted or Proposed Flows (Instructions Page 51)

A. Existing/Interim I Phase

Design Flow (MGD): 0.900

2-Hr Peak Flow (MGD): 3.600

Estimated construction start date: existing

Estimated waste disposal start date: existing

B. Interim II Phase

Design Flow (MGD): 1.150

2-Hr Peak Flow (MGD): 4.600

Estimated construction start date: Q1 2025

Estimated waste disposal start date: Q1 2026

C. Final Phase

Design Flow (MGD): 2.000

2-Hr Peak Flow (MGD): 8.000

Estimated construction start date: Q1 2028

Estimated waste disposal start date: Q2 2030

D. Current operating phase: Phase I

Provide the startup date of the facility: Late 2007

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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 in the permit, a description of *each phase* must be provided.** Process description:

Phase I consists of five trains each containing aeration basins, clarifiers, chlorine contact chambers and digesters, with flow being split proportionally to each train. Phase II will add 250,000 gpd train receiving flow from a different direction than Phase I. Components will include a screening facility, aeration basins, a clarifier, chlorine contact basin and digesters. Effluent will be combined from the Phase I and Phase II facilities and dechlorinated before discharge. The Final Phase will add additional aeration basins, clarifiers, disinfection facilities and digesters.

Port or pipe diameter at the discharge point, in inches: 18

B. Treatment Units

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

Table 1.0(1) – Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
See Attachment TECH.01		

C. Process flow diagrams

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

Attachment: TECH.02

Section 3. Site Drawing (Instructions Page 52)

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: TECH.03

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

Sterling Lakes, Sterling Lakes North and Sierra Vista

Section 4. Unbuilt Phases (Instructions Page 52)

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.

The first 0.240 mgd phase of the BC MUD 31 facility was constructed and began operation in 2007. The second phase expanded the facilities to 0.480 mgd, and was constructed and put into service in late 2014. The third phase expanded the facilities to 0.900 mgd, and was completed and put into service in 2020. Development in the area has continued at a fast pace and the district now proposes to add an additional 0.250 mgd facility, taking the permitted flow to 1.150 mgd. Further growth in the Rosharon and Iowa Colony areas is anticipated well into the future, requiring future expansions to 2.0 mgd.

Section 5. Closure Plans (Instructions Page 53)

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 here to enter text.

Section 6. Permit Specific Requirements (Instructions Page 53)

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 here 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.

Click here to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

Yes ☒ No ☐

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

relevant to maintaining the buffer zones.

N/A

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.*

Standard language regarding submission of summary transmittal letters for future phases and notification of completion of future phases.

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 here 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 512-239-0000. 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 here 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 512-239-0000.

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

Click here 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 here to enter text. or TXRNE Click here 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 here 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 here 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 here 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 here 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, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.

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

1. Acceptance of sludge from other WWTPs

Does the facility accept or will it accept sludge from other treatment plants at the facility site?
Yes ☐ No ☒

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

In addition, provide the date that the plant started accepting sludge 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 here 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 a the date that the plant started accepting septic waste, 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 here 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 the facility accepting or will it 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 here to enter text.

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 58)

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).

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

Table 1.0(2) - Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	2.6	2.6	1	Comp	10-5-23 @ 0700
Total Suspended Solids, mg/l	<2.0	<2.0	1	Comp	10-5-23 @ 0700
Ammonia Nitrogen, mg/l	0.20	0.20	1	Comp	10-5-23 @ 0700
Nitrate Nitrogen, mg/l	0.73	0.73	1	Comp	10-5-23 @ 0700
Total Kjeldahl Nitrogen, mg/l	2.20	2.20	1	Comp	10-5-23 @ 0700
Sulfate, mg/l	10.0	10.0	1	Comp	10-5-23 @ 0700
Chloride, mg/l	283	283	1	Comp	10-5-23 @ 0700
Total Phosphorus, mg/l	0.52	0.52	1	Comp	10-5-23 @ 0700
pH, standard units	7.14	7.14	1	Grab	10-5-23 @ 1336
Dissolved Oxygen*, mg/l	6.94	6.94	1	Grab	
Chlorine Residual, mg/l	2.11	2.11	1	Grab	10-5-23 @ 1336
E.coli (CFU/100ml) freshwater	<1	<1	1	Grab	10-5-23 @ 1336
Entercocci (CFU/100ml) saltwater	<1	<1	1	Grab	10-5-23 @ 1336
Total Dissolved Solids, mg/l	792	792	1	Comp	10-5-23 @ 0700
Electrical Conductivity, µmohs/cm, †	1670	1670	1	Comp	10-5-23 @ 0700

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Oil & Grease, mg/l	<5	<5	1	Grab	10-5-23 @ 1336
Alkalinity ($CaCO_3$)*, mg/l	209	209	1	Comp	10-5-23 @ 0700

*TPDES permits only

†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: SI Environmental, LLC

Facility Operator's License Classification and Level: C or higher

Facility Operator's License Number: OC0000178

Section 9. Sewage Sludge Management and Disposal (Instructions Page 60)

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the following list. Check all that apply.

☐ Permitted landfill

☐ Permitted or Registered land application site for beneficial use

☐ Land application for beneficial use authorized in the wastewater permit

☐ Permitted sludge processing facility

☐ Marketing and distribution as authorized in the wastewater permit

☐ Composting as authorized in the wastewater permit

☐ Permitted surface disposal site (sludge monofill)

☐ Surface disposal site (sludge monofill) authorized in the wastewater permit

☒ Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.

☐ Other: Click here to enter text.

B. Sludge disposal site

Disposal site name: Richey Road Sludge Processing Facility

TCEQ permit or registration number: WQ0004810000

County where disposal site is located: Harris

C. Sludge transportation method

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

Name of the hauler: GFL Environmental

Hauler registration number: 98554

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage

sludge for beneficial use?

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

B. Sludge processing authorization

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

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

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

Yes ☐ No ☐

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

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 here to enter text.

- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click here to enter text.

- Federal Emergency Management Map:

  Attachment: Click here to enter text.

- Site map:

  Attachment: Click here 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 here 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 here 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 here to enter text.

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

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

Phosphorus, mg/kg: Click here to enter text.

Potassium, mg/kg: Click here to enter text.

pH, standard units: Click here to enter text.

Ammonia Nitrogen mg/kg: Click here to enter text.

Arsenic: Click here to enter text.

Cadmium: Click here to enter text.

Chromium: Click here to enter text.

Copper: Click here to enter text.

Lead: Click here to enter text.

Mercury: Click here to enter text.

Molybdenum: Click here to enter text.

Nickel: Click here to enter text.

Selenium: Click here to enter text.

Zinc: Click here to enter text.

Total PCBs: Click here to enter text.

Provide the following information:

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

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

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

D. Site development plan

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

Click here to enter text.

Attach the following documents to the application.

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

  Attachment: Click here to enter text.

- Copy of the closure plan

  Attachment: Click here to enter text.

- Copy of deed recordation for the site

  Attachment: Click here to enter text.

- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click here to enter text.

- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click here to enter text.

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click here 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 here to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 63)

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 here 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 here to enter text.

Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

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 here to enter text.

Section 14. Laboratory Accreditation (Instructions Page 64)

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: Micah Kreikemeier

Title: President

Signature: _____

Date: 11/29/23

DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

Section 1. Justification for Permit (Instructions Page 66)

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.

The first 0.240 mgd phase of the BC MUD 31 facility was constructed and began operation in 2007. The second phase expanding the facilities to 0.480 mgd was constructed and put into service in late 2014. The third phase expanding the facilities to 0.900 mgd was completed and put into service in 2020. Development in the area has continued at a fast pace and the district now proposes to add an additional 0.250 mgd facility, taking the permitted flow to 1.150 mgd. Further growth in the Rosharon and Iowa Colony areas is anticipated well into the future, requiring future expansions to 2.0 mgd.

B. Regionalization of facilities

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 here to enter text.

If yes, attach correspondence from the city.

Attachment: Click here 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 here to enter text.

2. Utility CCN areas

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

Yes ☐ No ☒

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 here 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 that includes the permittee's name and permit number, and an area map showing the location of these facilities.

Attachment: Per Firoj Vahora, this is not required since the applicant is only adding additional acreage to the plant site

If yes, attach copies of your certified letters to these facilities **and** their response letters concerning connection with their system.

Attachment: See above

Does a permitted domestic wastewater treatment facility or a collection system located within three (3) miles of the proposed facility currently have the capacity to accept or is willing to expand to accept the volume of wastewater proposed in this application?

Yes ☐ No ☐

If yes, attach an analysis of expenditures required to connect to a permitted wastewater treatment facility or collection system located within 3 miles versus the cost of the proposed facility or expansion.

Attachment: Click here to enter text.

Section 2. Organic Loading (Instructions Page 67)

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): 2.0

Average Influent Organic Strength or BOD_5 Concentration in mg/l: 300

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): 5004 lbs/day

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

Currently accepted BOD5 in the industry

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 BOD_5 Concentration (mg/l)
Municipality		
Subdivision	0.900/1.150/2.00	300/300/300
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	0.900/1.150/2.00	
AVERAGE BOD_5 from all sources		300/300/300

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 68)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 10

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

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

Dissolved Oxygen, mg/l: 4

Other: E. coli: 126 mpn/100 ml

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 10

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

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

Dissolved Oxygen, mg/l: 4

Other: E. coli: 126 mpn/100 ml

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 7

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 2

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

Dissolved Oxygen, mg/l: 6

Other: E. coli: 126 mpn/100 ml

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: 1-4 mg/l after 20 minutes detention time at peak flow

Dechlorination process: sulfur dioxide

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

☐ Other: Click here to enter text.

Section 4. Design Calculations (Instructions Page 68)

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

Attachment: N/A

Section 5. Facility Site (Instructions Page 68)

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.

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

48039C0105K

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 here to enter text.

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

B. Wind rose

Attach a wind rose. **Attachment**: Click here to enter text.

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 69)

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)

Attachment: Click here 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 a completed DOMESTIC WASTEWATER PERMIT APPLICATION: SEWAGE SLUDGE TECHNICAL REPORT (TCEQ Form No. 10056).

Attachment: Click here to enter text.

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 69)

Attach a solids management plan to the application.

Attachment: N/A - just adding acreage to plant site and adding interim phase

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 TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

Section 1. Domestic Drinking Water Supply (Instructions Page 73)

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 yes, provide the following:
Owner of the drinking water supply: Click here to enter text.

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

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

Attachment: Click here to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)

Does the facility discharge into tidally affected waters?

Yes ☐ No ☒

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

Yes ☐ No ☐

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

Click here 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 here to enter text.

Section 3. Classified Segments (Instructions Page 73)

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 75)

Name of the immediate receiving waters: Brazoria County Drainage District (BCDD) 5 ditch

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 here to enter text.

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

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

☒ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click here 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 here 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.

West Fork Chocolate Bayou

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.

E. Normal dry weather characteristics

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

The BCDD 5 ditch is normally dry other than the WWTP effluent.

Date and time of observation: September 27, 2023 @ 09:30

Was the water body influenced by stormwater runoff during observations?

Yes ☐ No ☒

Section 5. General Characteristics of the Waterbody (Instructions Page 74)

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

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation

☐ Domestic water supply ☐ Industrial water supply

☐ Park activities ☒ Other(s), specify unknown

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 WORKSHEET 4.0

POLLUTANT ANALYSES 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 for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

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

Grab ☒ Composite ☒

Date and time sample(s) collected: Comp:10-05-23 @0700 Grab:10-05-23@1336

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<50	<50	1	50
Aldrin	<0.01	<0.01	1	0.01
Aluminum	21.8	21.8	1	2.5
Anthracene	<10	<10	1	10
Antimony	<5	<5	1	5
Arsenic	<0.5	<0.5	1	0.5
Barium	281	281	1	3
Benzene	<10	<10	1	10
Benzidine	<50	<50	1	50

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Benzo(a)anthracene	<5	<5	1	5
Benzo(a)pyrene	<5	<5	1	5
Bis(2-chloroethyl)ether	<10	<10	1	10
Bis(2-ethylhexyl)phthalate	<10	<10	1	10
Bromodichloromethane	<10	<10	1	10
Bromoform	<10	<10	1	10
Cadmium	<1.0	<1.0	1	1
Carbon Tetrachloride	<2	<2	1	2
Carbaryl	<5	<5	1	5
Chlordane*	<0.2	<0.2	1	0.2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10
Chloroform	<10	<10	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Chromium (Hex)	<3	<3	1	3
Copper	<2	<2	1	2
Chrysene	<5	<5	1	5
p-Chloro-m-Cresol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
p-Cresol	<10	<10	1	10
Cyanide (*2)	<10	<10	1	10
4,4'- DDD	<0.1	<0.1	1	0.1
4,4'- DDE	<0.1	<0.1	1	0.1
4,4'- DDT	<0.02	<0.02	1	0.02
2,4-D	<0.7	<0.7	1	0.7
Demeton (O and S)	<0.20	<0.20	1	0.20
Diazinon	<0.1	<0.1	1	0.5/0.1
1,2-Dibromoethane	<10	<10	1	10
m-Dichlorobenzene	<10	<10	1	10
o-Dichlorobenzene	<10	<10	1	10
p-Dichlorobenzene	<10	<10	1	10
3,3'-Dichlorobenzidine	<5	<5	1	5
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
Dichloromethane	<20	<20	1	20
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropene	<10	<10	1	10
Dicofol	<1	<1	1	1
Dieldrin	<0.02	<0.02	1	0.02
2,4-Dimethylphenol	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di-n-Butyl Phthalate	<10	<10	1	10
Diuron	<0.09	<0.09	1	0.09
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Ethylbenzene	<10	<10	1	10
Fluoride	870	870	1	500
Guthion	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclohexane (alpha)	<0.05	<0.05	1	0.05
Hexachlorocyclohexane (beta)	<0.05	<0.05	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.05	<0.05	1	0.05
Hexachlorocyclopentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Hexachlorophene	<10	<10	1	10
Lead	<0.5	<0.5	1	0.5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Malathion	<0.1	<0.1	1	0.1
Mercury	<0.005	<0.005	1	0.005
Methoxychlor	<2	<2	1	2
Methyl Ethyl Ketone	<50	<50	1	50
Mirex	<0.02	<0.02	1	0.02
Nickel	<2	<2	1	2
Nitrate-Nitrogen	730	730	1	100
Nitrobenzene	<10	<10	1	10
N-Nitrosodiethylamine	<20	<20	1	20
N-Nitroso-di-n-Butylamine	<20	<20	1	20
Nonylphenol	<333	<333	1	333
Parathion (ethyl)	<0.1	<0.1	1	0.1
Pentachlorobenzene	<20	<20	1	20
Pentachlorophenol	<5	<5	1	5
Phenanthrene	<10	<10	1	10
Polychlorinated Biphenyls (PCB's) (*3)	<0.2	<0.2	1	0.2
Pyridine	<20	<20	1	20
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	<20	<20	1	20

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Thallium	<0.5	<0.5	1	0.5
Toluene	<10	<10	1	10
Toxaphene	<0.3	<0.3	1	0.3
2,4,5-TP (Silvex)	<0.3	<0.3	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
2,4,5-Trichlorophenol	<50	<50	1	50
TTHM (Total Trihalomethanes)	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10
Zinc	51	51	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: Comp:10-05-23 @0700 Grab:10-05-23@1336

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<5	<5	1	5
Arsenic	<0.5	<0.5	1	0.5
Beryllium	<0.5	<0.5	1	0.5
Cadmium	<1	<1	1	1
Chromium (Total)	<3	<3	1	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Copper	<2	<2	1	2
Lead	<0.5	<0.5	1	0.5
Mercury	<0.005	<0.005	1	0.005
Nickel	<2	<2	1	2
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
Thallium	<0.5	<0.5	1	0.5
Zinc	51	51	1	5
Cyanide (*2)	<10	<10	1	10
Phenols, Total	<10	<10	1	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<50	<50	1	50
Acrylonitrile	<50	<50	1	50
Benzene	<10	<10	1	10
Bromoform	<10	<10	1	10
Carbon Tetrachloride	<2	<2	1	2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10
Chloroethane	<50	<50	1	50
2-Chloroethylvinyl Ether	<10	<10	1	10
Chloroform	<10	<10	1	10
Dichlorobromomethane [Bromodichloromethane]	<10	<10	1	10
1,1-Dichloroethane	<10	<10	1	10
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	<10	1	10
1,2-Trans-Dichloroethylene	<10	<10	1	10
Ethylbenzene	<10	<10	1	10
Methyl Bromide	<50	<50	1	50
Methyl Chloride	<50	<50	1	50
Methylene Chloride	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Tetrachloroethylene	<10	<10	1	10
Toluene	<10	<10	1	10
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10

Table 4.0(2)C - Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<10	<10	1	10
2,4-Dichlorophenol	<10	<10	1	10
2,4-Dimethylphenol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
2,4-Dinitrophenol	<50	<50	1	50
2-Nitrophenol	<20	<20	1	20
4-Nitrophenol	<50	<50	1	50
P-Chloro-m-Cresol	<10	<10	1	10
Pentalchlorophenol	<5	<5	1	5
Phenol	<10	<10	1	10
2,4,6-Trichlorophenol	<10	<10	1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<10	<10	1	10
Acenaphthylene	<10	<10	1	10
Anthracene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)Anthracene	<5	<5	1	5
Benzo(a)Pyrene	<5	<5	1	5
3,4-Benzofluoranthene	<10	<10	1	10
Benzo(ghi)Perylene	<20	<20	1	20
Benzo(k)Fluoranthene	<5	<5	1	5
Bis(2-Chloroethoxy)Methane	<10	<10	1	10
Bis(2-Chloroethyl)Ether	<10	<10	1	10
Bis(2-Chloroisopropyl)Ether	<10	<10	1	10
Bis(2-Ethylhexyl)Phthalate	<10	<10	1	10
4-Bromophenyl Phenyl Ether	<10	<10	1	10
Butyl benzyl Phthalate	<10	<10	1	10
2-Chloronaphthalene	<10	<10	1	10
4-Chlorophenyl phenyl ether	<10	<10	1	10
Chrysene	<5	<5	1	5
Dibenzo(a,h)Anthracene	<5	<5	1	5
1,2-(o)Dichlorobenzene	<10	<10	1	10
1,3-(m)Dichlorobenzene	<10	<10	1	10
1,4-(p)Dichlorobenzene	<10	<10	1	10
3,3-Dichlorobenzidine	<5	<5	1	5
Diethyl Phthalate	<10	<10	1	10
Dimethyl Phthalate	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
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
Fluorene	<10	<10	1	10
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclo-pentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Indeno(1,2,3-cd)pyrene	<5	<5	1	5
Isophorone	<10	<10	1	10
Naphthalene	<10	<10	1	10
Nitrobenzene	<10	<10	1	10
N-Nitrosodimethylamine	<50	<50	1	50
N-Nitrosodi-n-Propylamine	<20	<20	1	20
N-Nitrosodiphenylamine	<20	<20	1	20
Phenanthrene	<10	<10	1	10
Pyrene	<10	<10	1	10
1,2,4-Trichlorobenzene	<10	<10	1	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.01	<0.01	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
Chlordane	<0.2	<0.2	1	0.2
4,4-DDT	<0.02	<0.02	1	0.02
4,4-DDE	<0.1	<0.1	1	0.1
4,4,-DDD	<0.1	<0.1	1	0.1
Dieldrin	<0.02	<0.02	1	0.02
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Endrin Aldehyde	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
PCB-1242	<0.2	<0.2	1	0.2
PCB-1254	<0.2	<0.2	1	0.2
PCB-1221	<0.2	<0.2	1	0.2
PCB-1232	<0.2	<0.2	1	0.2

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
PCB-1248	<0.2	<0.2	1	0.2
PCB-1260	<0.2	<0.2	1	0.2
PCB-1016	<0.2	<0.2	1	0.2
Toxaphene	<0.3	<0.3	1	0.3

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid
Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol
Common Name TCP, CASRN 95-95-4

☐ hexachlorophene
Common Name HCP, CASRN 70-30-4

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

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works (POTWs)

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

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

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

Categorical IUs:

Number of IUs: 0

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

Significant IUs – non-categorical:

Number of IUs: 0

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

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click here 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 here 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 here 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 ☒ JA 2/22/24

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 100)

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 here 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 here to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

Yes ☐ No ☐

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

Click here to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

Company Name: Click here to enter text.

SIC Code: Click here to enter text.

Telephone number: Click here to enter text. Fax number: Click here to enter text.

Contact name: Click here to enter text.

Address: Click here to enter text.

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

C. Product and service information

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

Click here 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 here to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here 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 here to enter text.

ATTACHMENT ADMIN.01

USGS Topographic Map

(Reference Administrative Report 1.0, Page 11, Question 13)

ATTACHMENT ADMIN.02

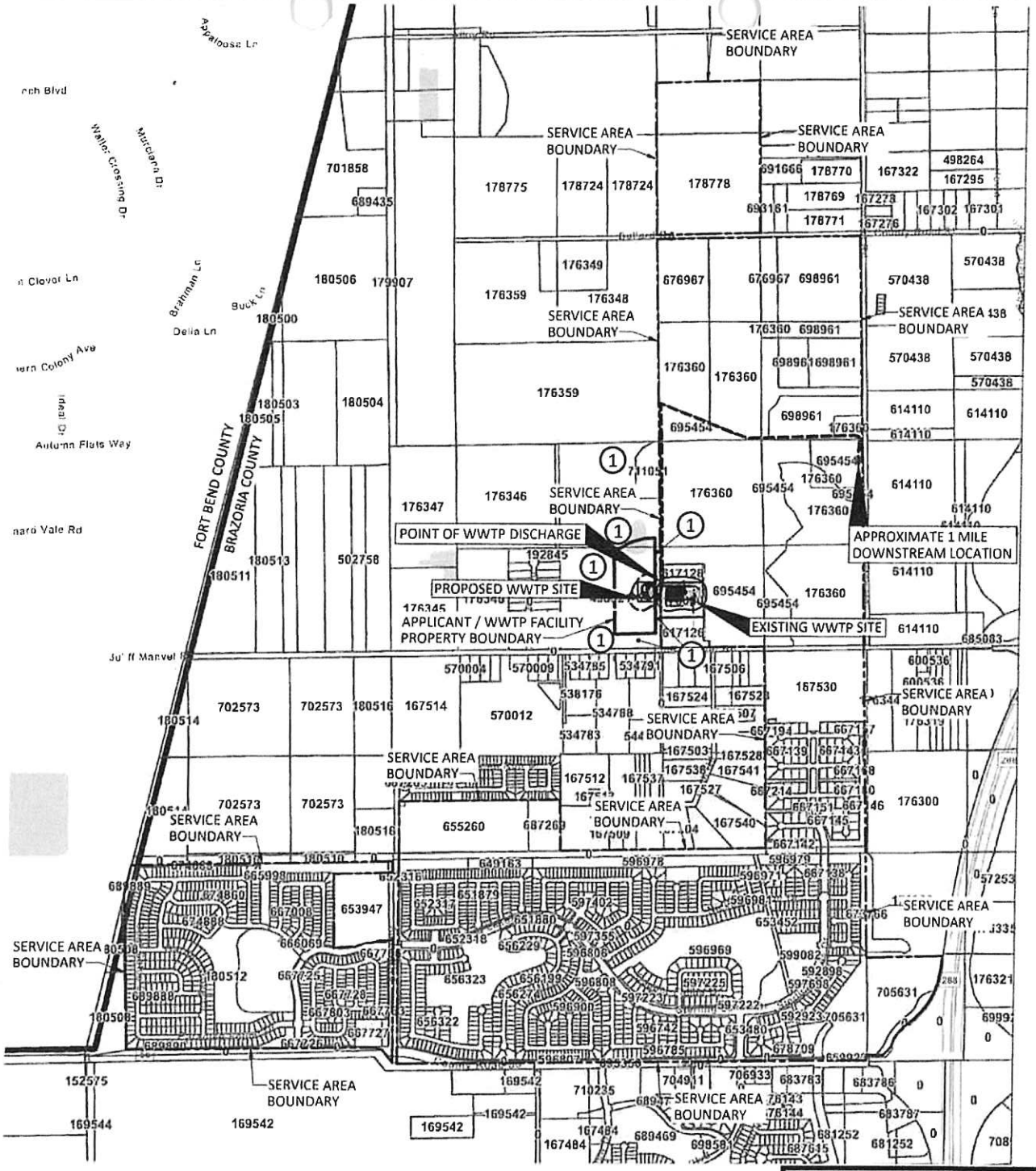
Proof of Payment

(Reference Administrative Report 1.0, Page 11, Question 13)

ATTACHMENT ADMIN.04

Affected Landowner Map and List

(Reference Administrative Report 1.1, Page 16, Section 1)



Per Firoj Vahora, only adjacent landowners have been identified since new property is being added to the wastewater plant site. Downstream landowners were not identified since nothing about the discharge path or quantity has changed.

LEGEND

① DENOTES LANDOWNER SEE ATTACHED TABLE FOR LANDOWNERS

PROPOSED SERVICE AREA BOUNDARY

RECEIVED
DEC 01 2023
Water Quality Applications Team

N

0 1000 2000

SCALE: 1" = 1000'-0" (24"x36")
1" = 2000'-0" (11"x17" 8.5"x11")

WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0014546001

DOWNSTREAM & ADJACENT LANDOWNERS MAP

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	
SCALE: AS NOTED	**ADMIN.04**
DATE: 11/28/2023	
JOB No.: 6040-23200	

TABLE "ADMIN.04"

Brazoria County MUD 31
Brazoria County MUD 31 Wastewater Treatment Plant

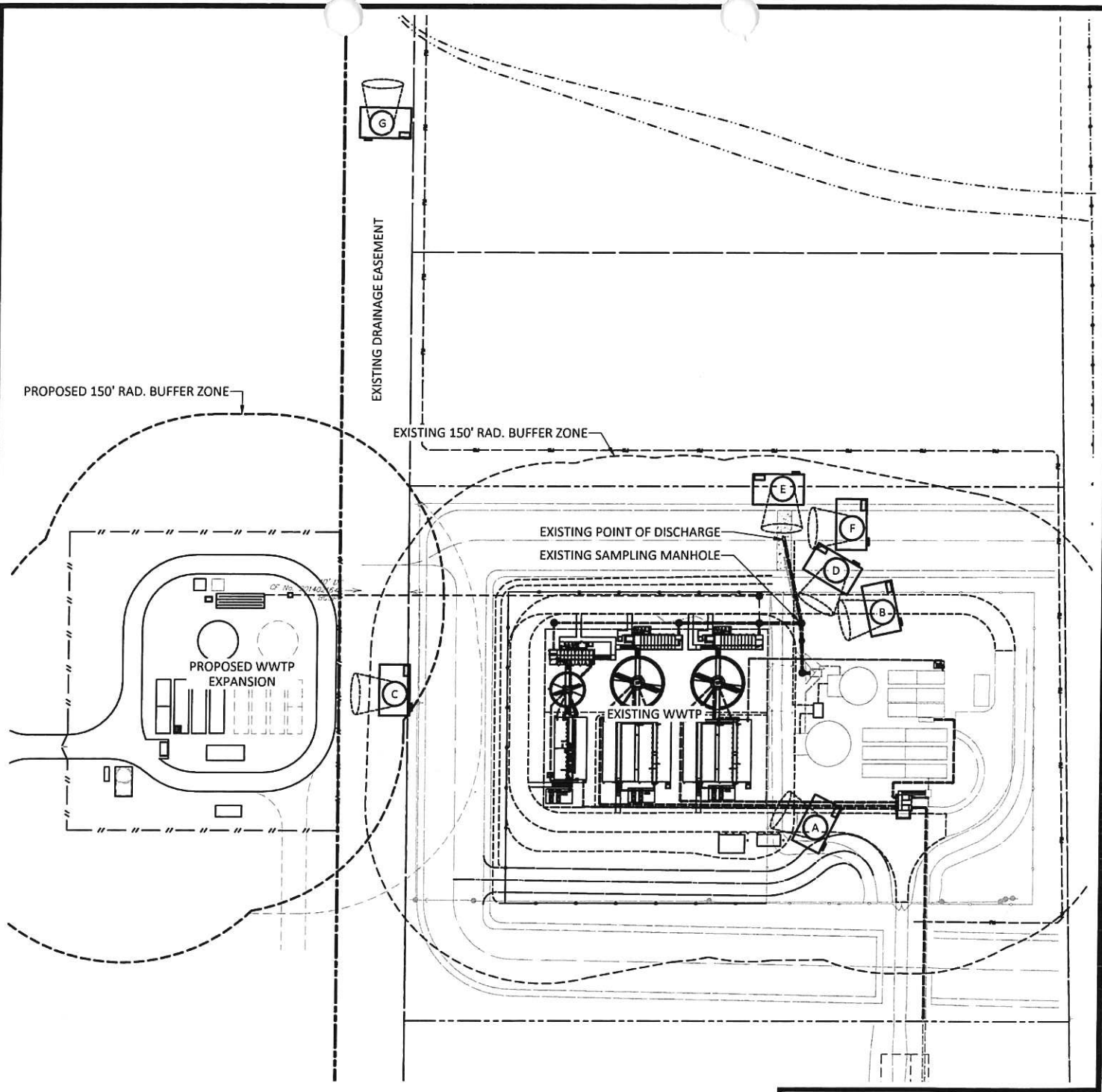
Adjacent & Downstream Land Ownership Table
Source: Brazoria County Appraisal District

Tract No. (See Attachment "ADMIN.04" Map)	**Title Owner & Address**
1	608 COLONY INVESTMENTS LTD 10003 N W MILITARY HWY SUITE 2201 SAN ANTONIO TX 78231

ATTACHMENT ADMIN.05

Photographs

(Reference Administrative Report 1.1, Page 17, Section 2)



NOTE:
SEE ATTACHED TABLE FOR LANDOWNER INFORMATION

LEGEND

(A) DENOTES LOCATION FROM WHICH PHOTOGRAPHS WERE TAKEN
SEE ATTACHMENT ADMIN.05 FOR SITE PHOTOGRAPHS

RECEIVED
DEC 0 1 2023
Water Quality Applications Team

N

0 60 120
SCALE: 1" = 60'-0" (24"x36")
1" = 120'-0" (11"x17" 8.5"x11")

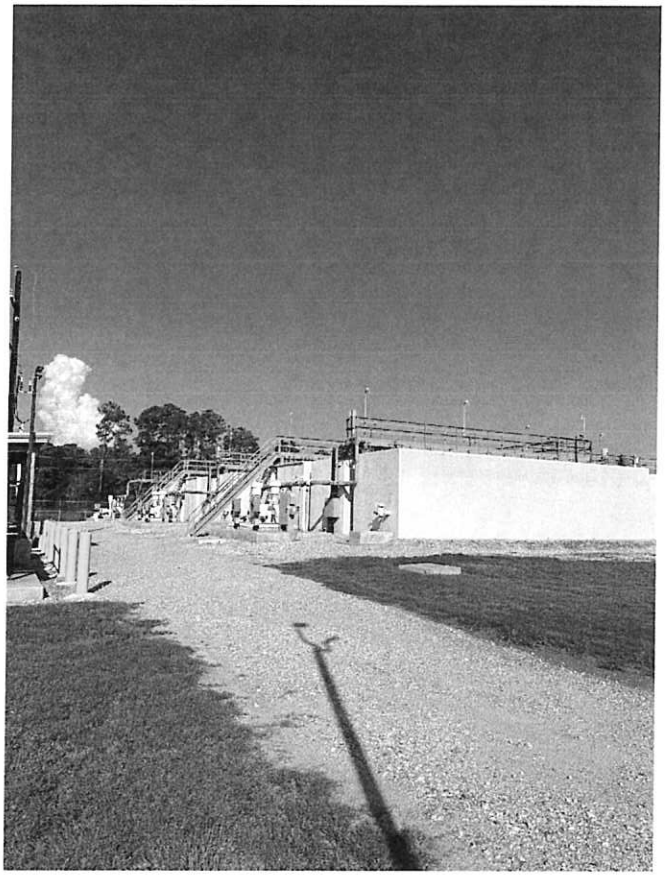
WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0014546001

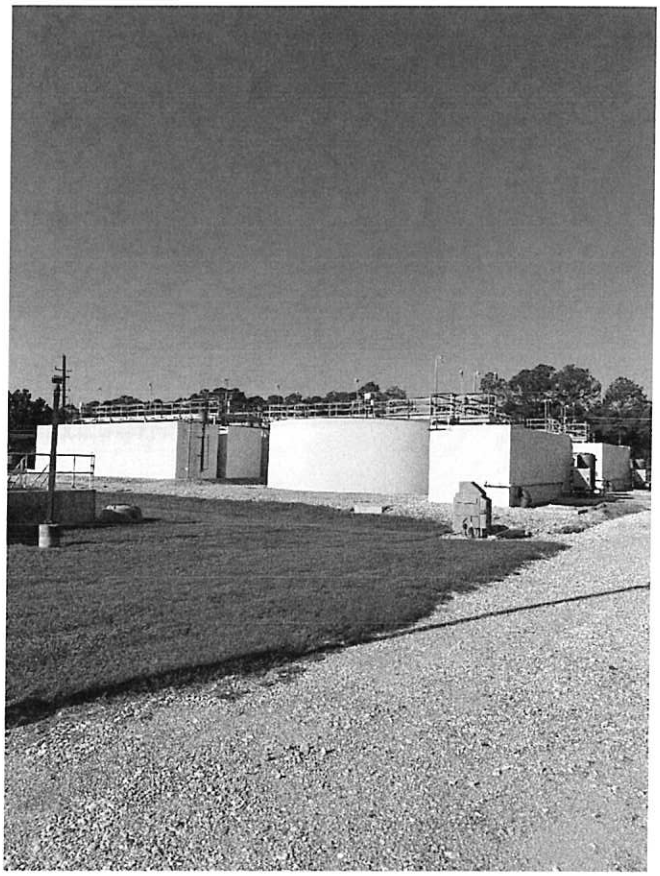
SITE PHOTOGRAPH LOCATION MAP

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	
SCALE: AS NOTED	**ADMIN.05-1**
DATE: 11/28/2023	
JOB No.: 6040-23200	

EXISTING WASTEWATER TREAT[illegible]NT PLANT SITE



EXISTING [illegible]TEWATER TREATMENT PLANT SITE



** SEE ADMIN.05-1 FOR LOCATION IN WHICH PHOTOGRAPHS WERE TAKEN

WATERENGINEERS,INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO
TPDES PERMIT No. WQ0014546001

SITE PHOTOGRAPHS

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	
SCALE: AS NOTED	**ADMIN.05-2**
DATE: 11/28/2023	
JOB No.: 6040-23200	

PROPOSED WASTEWATER TREA NT PLANT SITE

LOCAT WHERE ALL EFFLUENT COMBINES AND IS SAMPLED AUTOMATICALLY

** SEE ADMIN.05-1 FOR LOCATION IN WHICH PHOTOGRAPHS WERE TAKEN

WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0014546001

SITE PHOTOGRAPHS

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	
SCALE: AS NOTED	**ADMIN.05-3**
DATE: 11/28/2023	
JOB No.: 6040-23200	

EXISTING POINT OF DISCHARGE

EXISTING POINT OF DISCHARGE LOOKING DOWNSTREAM

** SEE ADMIN.05-1 FOR LOCATION IN WHICH PHOTOGRAPHS WERE TAKEN

WATERENGINEERS,INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0014546001

SITE PHOTOGRAPHS

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	
SCALE: AS NOTED	**ADMIN.05-4**
DATE: 11/28/2023	
JOB No.: 6040-23200	

DOWNSTREAM OF POINT OF DISCHARGE

** SEE ADMIN.05-1 FOR LOCATION IN WHICH PHOTOGRAPHS WERE TAKEN

WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO
TPDES PERMIT No. WQ0014546001

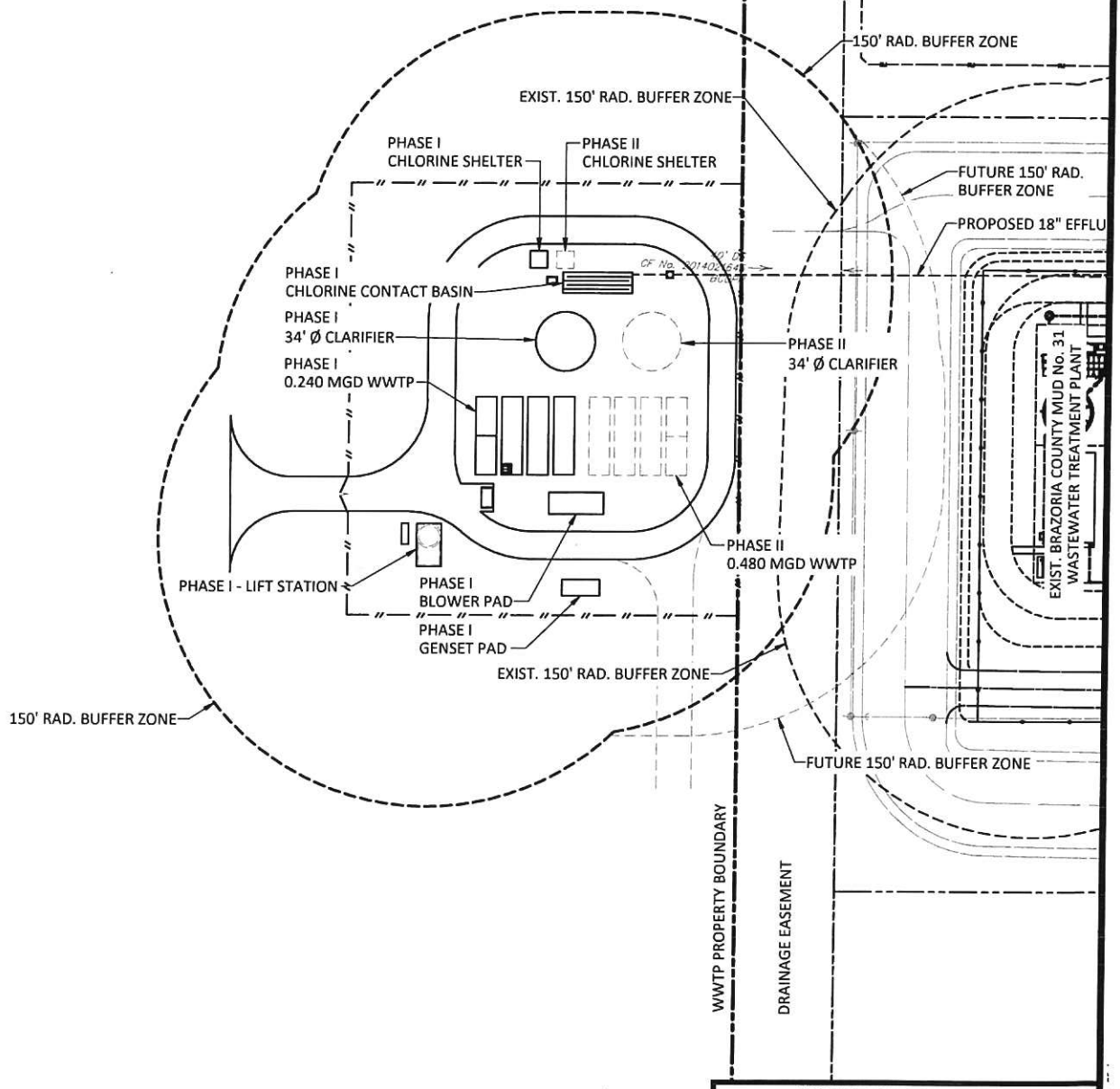
SITE PHOTOGRAPHS

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	**ADMIN.05-5**
SCALE: AS NOTED	
DATE: 11/28/2023	
JOB No.: 6040-23200	

ATTACHMENT ADMIN.06

Buffer Zone Map

(Reference Administrative Report 1.1, Page 17, Section 3A)



RECEIVED
DEC 01 2023
Water Quality Applications Team

WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO
TPDES PERMIT No. WQ0014546001

BUFFER ZONE MAP

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	**ADMIN.06**
SCALE: AS NOTED	
DATE: 11/27/2023	
JOB No.: 6040-23200	

N

0 50 100

SCALE:1" = 50'-0" (24"x36")
1" = 100'-0" (11"x17" 8.5"x11")

ATTACHMENT ADMIN.07

Public Involvement Plan

(Reference Administrative Report 1.0, Page 8, Section 8F)

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☒ New Permit or Registration Application
☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, a Public Involvement Plan is not necessary. Completion of the remaining sections not required.

Section 2. Secondary Screening

☒ Requires public notice,
☐ Considered to have significant public interest, **and**
☒ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all of the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation. The area affected by this permit action is not environmentally highly sensitive and, to the best of my knowledge, not been part of any other contested permit action.

RECEIVED
DEC 11 2023
Water Quality Applications Team

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste
☐ Radioactive Materials Licensing ☐ Underground Injection Controls

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)
- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit
  - ☐ Class B Biosolids Land Application Permit
  - ☐ Domestic Septage Land Application Registration

Water Rights New Permit
- ☐ New Appropriation of Water
- ☐ New or existing reservoir

Amendment to an Existing Water Right
- ☐ Add a New Appropriation of Water
- ☐ Add a New or Existing Reservoir
- ☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

_____
(City)

_____
(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.
☐ City
☐ County
☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office

☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

ATTACHMENT SPIF.01

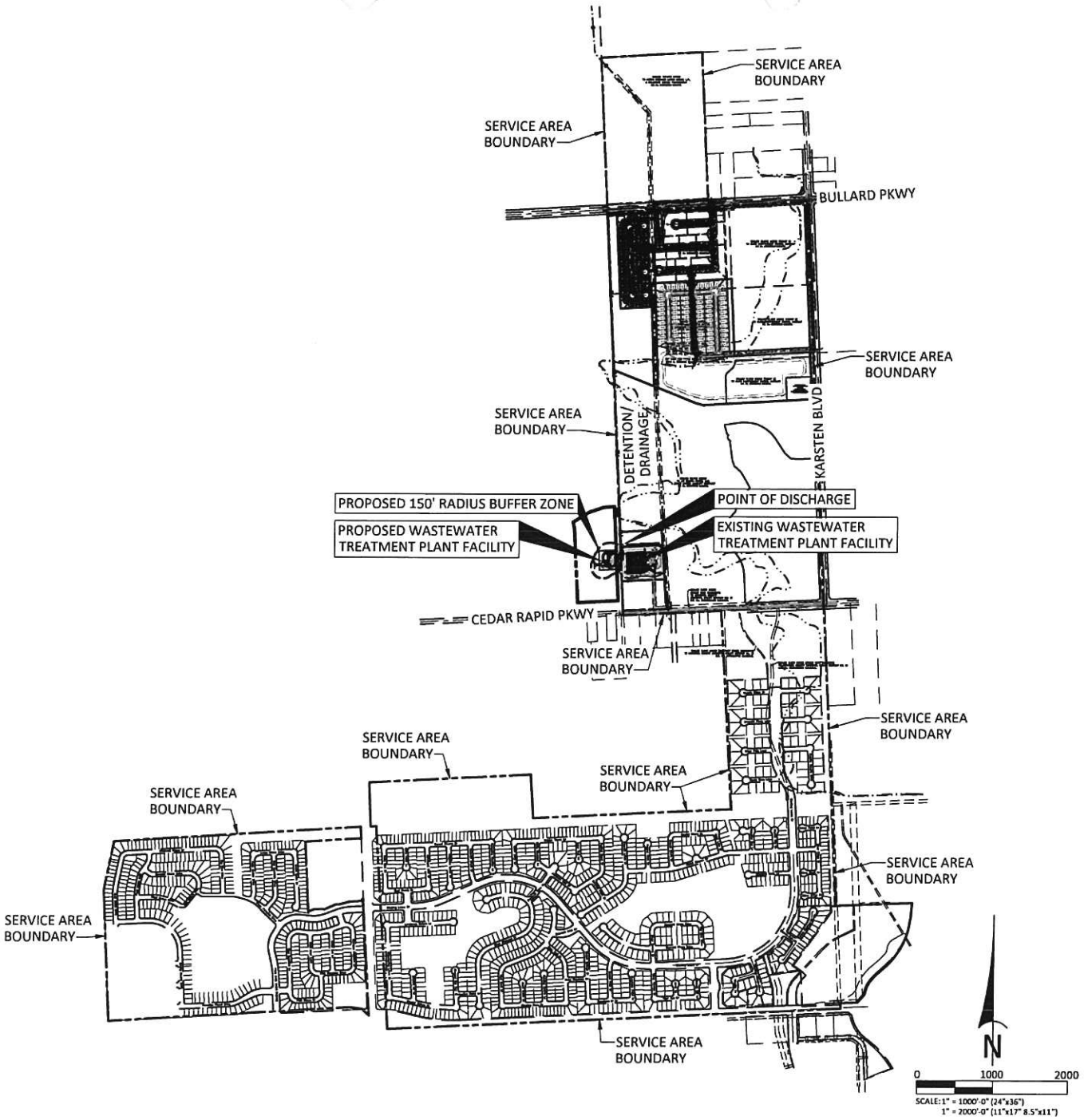
USGS Topographic Map

(Reference Supplemental Permit Information Form, Pg 19, Question 5)

ATTACHMENT SPIF.02

Site Drawing

(Reference Supplemental Permit Information Form, Pg 19, Question 5)



WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO
TPDES PERMIT No. WQ0014546001

SERVICE AREA & SITE PLAN

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	
SCALE: AS NOTED	**SPIF.02**
DATE: 11/22/2023	
JOB No.: 6040-23200	

LEGEND

PROPOSED SERVICE AREA BOUNDARY

ATTACHMENT TECH.01

Treatment Units

And Design Features for Reliability

(Reference Technical Report Page 2, Question 2b)

BRAZORIA COUNTY MUD 31 WWTP

EXISTING

Train 1:

2 – Aeration Basins	52' L x 12' W x 10.5' SWD (each)
1 – Aeration Basin	31' L x 12' W x 10.5' SWD
1 – Clarifier	30' Diam x 10.5' SWD
1 – Digester	21' L x 12' W x 10.5' SWD
1 – Chlorine Contact Basin	18' L x 10' W x 9.82' SWD

Train 2:

3 – Aeration Basins	38' L x 12' W x 10.5' SWD (each)
1 – Clarifier	38.33' Diam x 10.5' SWD
3 – Digesters	35' L x 12' W x 10.5' SWD (each)
1 – Chlorine Contact Basin	18' L x 10' W x 9.82' SWD

Train 3:

2 – Aeration Basins	52' L x 12' W x 10.5' SWD (each)
1 – Clarifier	45' Diam x 11.92' SWD
2 – Digesters	52' L x 12' W x 10.5' SWD (each)
1 – Chlorine Contact Basin	36' L x 12' W x 8.58' SWD

Train 4:

2 – Aeration Basins	52' L x 12' W x 10.5' SWD (each)
1 – Clarifier	45' Diam x 11.92' SWD
2 – Digesters	52' L x 12' W x 10.5' SWD (each)
1 – Chlorine Contact Basin	36' L x 12' W x 8.58' SWD

Train 5:

1 – Aeration Basin	52' L x 12' W x 10.5' SWD
1 – Clarifier	30' Diam x 11.92' SWD
1 – Digester	52' L x 12' W x 10.5' SWD
1 – Chlorine Contact Basin	36' L x 12' W x 8.58' SWD

PROPOSED ADDITION TO 1.150 MGD

Train 6:

3 – Aeration Basins	45' L x 12' W x 11.37' SWD (each)
1 – Clarifier	34' Diam x 12.85' SWD
2 – Digesters	22.5' L x 12' W x 11.5' SWD (each)
1 – Chlorine Contact Basin	40' L x 12' W x 7.73' SWD

FUTURE ADDITIONS WILL BE REPLICAS OF TRAIN 6

DESIGN FEATURES FOR RELIABILITY

The Brazoria County MUD 31 Wastewater Treatment Plant facilities are designed to provide a high degree of mechanical reliability consistent with TCEQ Design Criteria. The following describe design features that are incorporated at the facilities to prevent bypassing or overflows of untreated wastewater:

A. Any fluctuations in flows indicating infiltration/inflow will be researched and addressed as encountered.
B. The electrical service that serves the Brazoria County MUD 31 WWTP is reliable with most outages lasting less than 2-4 hours. However, Brazoria County MUD 31 has a generator on the current site to operate necessary plant components during extended outages. A new generator will be purchased for the plant site expansion.
C. All mechanical units, such as influent pumps, blowers and chemical feed pumps are installed with spare units in the event a piece of equipment is out of service for repairs.
D. Plant units are maintained per TCEQ standards and repaired as quickly as possible as failures occur.
E. The facilities include an auto-dialer that calls the operator in case of power outages, blower malfunctions, lift station malfunctions or high-water alarm situations.

ATTACHMENT TECH.02

Process Flow Diagram

(Reference Technical Report Page 2, Question 2c)

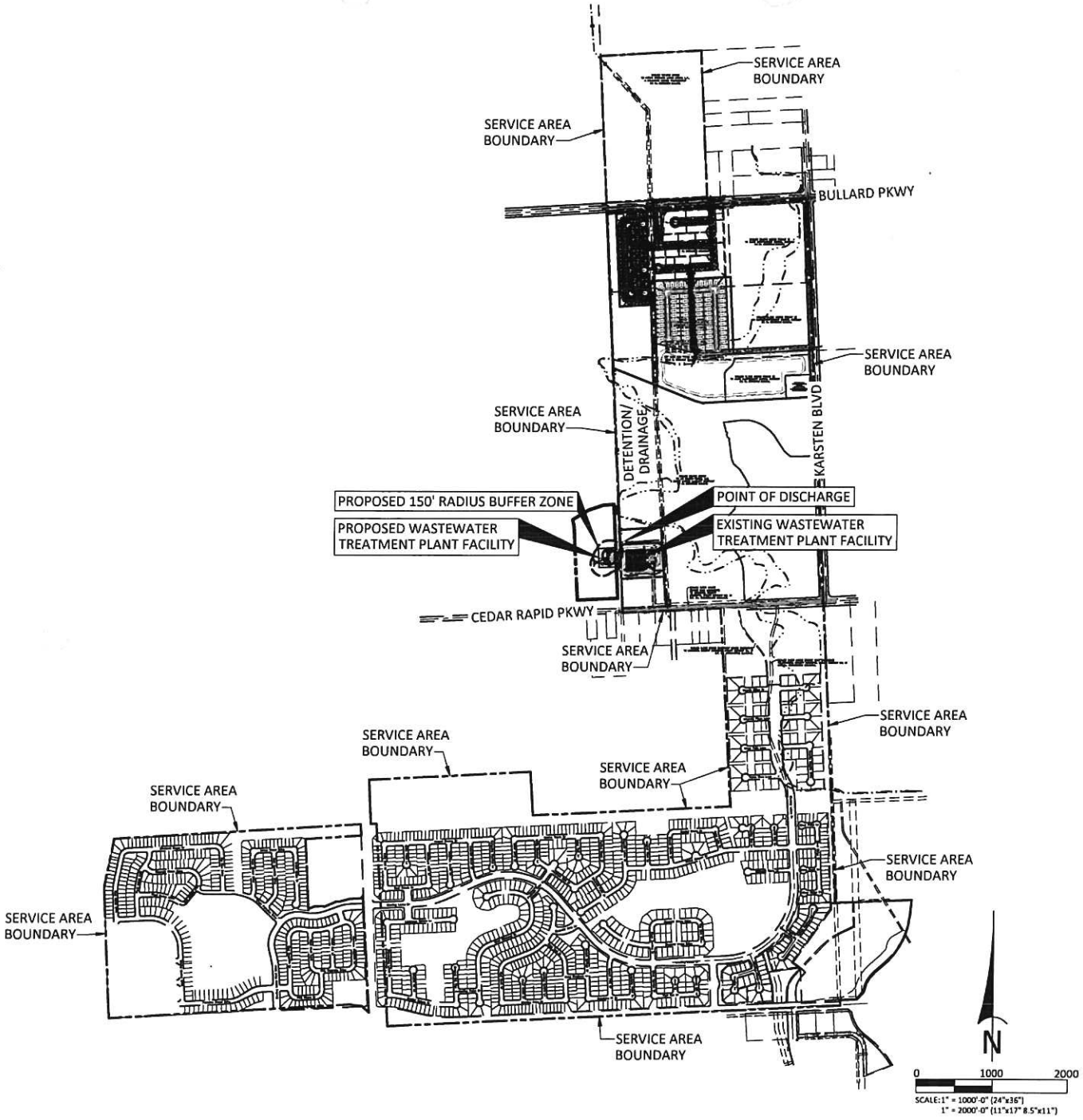
ATTACHMENT TECH.03

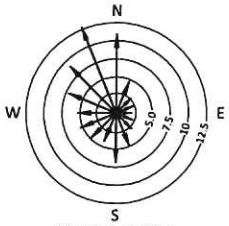
Site Drawing

(Reference Technical Report Page 3, Question 3)

(Including Wind Rose)

(Reference Technical Report Page 24, Question 5B)





WIND ROSE

DEPICTING % OF TIME WIND BLOWS IN INDICATED DIRECTION. BASED ON DATA AT HOUSTON INTERCONTINENTAL AIRPORT.

LEGEND

PROPOSED SERVICE AREA BOUNDARY

WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0014546001

SERVICE AREA & SITE PLAN

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	
SCALE: AS NOTED	**TECH.03**
DATE: 11/22/2023	
JOB No.: 6040-23200	

ATTACHMENT TECH.04

Pollutant Analysis of Treated Effluent

(Reference Technical Report Page 11, Question 7)

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

03 November 2023

Si Environmental, LLC
Chris Manthei
6420 Reading Road
Rosenberg, TX 77471

Brazoria Co. MUD #31 - Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 05-Oct-23 16:33. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 16

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain
Client Services Representative

Certificate No: T104704265-22-20

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	23J0933-01	Water	05-Oct-23 07:00	05-Oct-23 16:33
Effluent	23J0933-02	Water	05-Oct-23 13:38	05-Oct-23 16:33

L-Sample analyzed by TNI accredited lab T104704231-22-29

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain, Client Services Representative

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT:	**BCMUD #31 PERMIT RENEWAL** (Si Environmental)	LAB NUMBER:	23J0933A
DATE COLLECTED:	05-Oct-23	DATE RECEIVED:	05-Oct-23
DATE COMPLETED:	08-Oct-23	SAMPLED BY:	AS
LOCATION:	**EFFLUENT** - Grab		

PARAMETERS: VOLATILES	CONC.	DETECTION LIMITS (ug/l)
ACROLEIN (ug/l)	50.0 U	50.0
ACRYLONITRILE (ug/l)	50.0 U	50.0
CHLOROMETHANE (ug/l)	10.0 U	10.0
VINYL CHLORIDE (ug/l)	10.0 U	10.0
BROMOMETHANE (ug/l)	50.0 U	50.0
CHLOROETHANE (ug/l)	50.0 U	50.0
TRICHLOROFUOROMETHANE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
METHYLENE CHLORIDE (ug/l)	20.0 U	20.0
trans-1,2-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHANE (ug/l)	10.0 U	10.0
1,1,1-TRICHLOROETHANE (ug/l)	10.0 U	10.0
METHYL BROMIDE (ug/l)	50.0 U	50.0
METHYL CHLORIDE (ug/l)	10.0 U	10.0
CHLOROFORM (ug/l)	10.0 U	10.0
CARBON TETRACHLORIDE (ug/l)	2.0 U	2.0
1,2-DICHLOROETHANE (ug/l)	10.0 U	10.0
TRICHLOROETHANE (ug/l)	10.0 U	10.0
BENZENE (ug/l)	10.0 U	10.0
TRICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,2-DICHLOROPROPANE (ug/l)	10.0 U	10.0
DICHLOROBROMOMETHANE (ug/l)	10.0 U	10.0
1,3 DICHLOROPROPYLENE (ug/l)	10.0 U	10.0
TOLUENE (ug/l)	10.0 U	10.0
trans-1,3-DICHLOROPROPENE (ug/l)	10.0 U	10.0
1,1,2-TRICHLOROETHANE (ug/l)	10.0 U	10.0
TETRACHLOROETHYLENE (ug/l)	10.0 U	10.0
DIBROMOCHLOROMETHANE (ug/l)	10.0 U	10.0
CHLOROBENZENE (ug/l)	10.0 U	10.0
2-CHLOROETHYLVINYL ETHER (ug/l)	10.0 U	10.0
1,2-DIBROMOETHANE (ug/l)	2.0 U	2.0
ETHYLBENZENE (ug/l)	10.0 U	10.0
BROMOFORM (ug/l)	10.0 U	10.0
1,1,2,2-TETRACHLOROETHANE (ug/l)	10.0 U	10.0
TOTAL TRIHALOMETHANES (ug/l)	10.0 U	10.0
METHYL ETHYL KETONE (ug/l)	50.0 U	50.0
1,3 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,4 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,2 DICHLORBENZENE (ug/l)	10.0 U	10.0
XYLENE (ug/l)	10.0 U	10.0

LAB REPRESENTATIVE

Ref. EPA 624.1 (VOLATILES)
U - Analyte Not Detected at the Listed Detection Limit
J - Analyte Present but Below Detection Limit
Analyzed by NELAP Accredited lab T104704231

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: **BCMUD #31 PERMIT RENEWAL** (Si Environmental)

LAB NUMBER: 23J0933B

DATE COLLECTED: 05-Oct-23

DATE RECEIVED: 05-Oct-23

DATE COMPLETED: 11-Oct-23

SAMPLED BY: AS

LOCATION: **EFFLUENT**

PARAMETERS:
BASE/ NEUTRALS

ACENAPHTHENE (ug/l)	10.0 U
ACENAPHTHYLENE (ug/l)	10.0 U
ANTHRACENE (ug/l)	10.0 U
BENZIDINE (ug/l)	50.0 U
BENZO (a) ANTHRACENE (ug/l)	5.0 U
BENZO (a) PYRENE (ug/l)	5.0 U
BENZO (B) FLUORANTHENE (ug/l)	10.0 U
BENZO (GHI) PERYLENE (ug/l)	20.0 U
BENZO (k) FLUORANTHENE (ug/l)	5.0 U
BIS (2-CHLOROETHYL) ETHER (ug/l)	10.0 U
BIS (2-CHLOROETHOXY) METHANE (ug/l)	10.0 U
BIS (2-CHLOROISOPROPYL) ETHER (ug/l)	10.0 U
BIS (2-ETHYLHEXYL) PHTHALATE (ug/l)	10.0 U
4-BROMOPHENYL PHENYL ETHER (ug/l)	10.0 U
BUTYL BENZYL PHTHALATE (ug/l)	10.0 U
2-CHLORONAPHTHALENE (ug/l)	10.0 U
4-CHLOROPHENYL PHENYL ETHER (ug/l)	10.0 U
CHRYSENE (ug/l)	5.0 U
DIBENZO (a,h) ANTHRACENE (ug/l)	5.0 U
1,2-DICHLOROBENZENE (ug/l)	10.0 U
1,3-DICHLOROBENZENE (ug/l)	10.0 U
1)1,4-DICHLOROBENZENE (ug/l)	10.0 U
3,3-DICHLOROBENZIDINE (ug/l)	5.0 U
DIETHYL PHTHALATE (ug/l)	10.0 U
DIMETHYL PHTHALATE (ug/l)	10.0 U
DI-N-BUTYL PHTHALATE (ug/l)	10.0 U
DIBENZOFURAN (ug/l)	10.0 U
FLUORANTHENE (ug/l)	10.0 U
FLUORENE (ug/l)	10.0 U
HEXACHLOROBENZENE (ug/l)	5.0 U
HEXACHLOROBUTADIENE (ug/l)	10.0 U
HEXACHLOROETHANE (ug/l)	20.0 U
HEXACHLOROCYCLOPENTADIENE (ug/l)	10.0 U
HEXACHLOROPHENE (ug/l)	10.0 U
INENO (1,2,3,cd) PYRENE (ug/l)	5.0 U
N-Diphenyl Hydrazine (ug/l)	20.0 U
NITROSO-di-n-BUTYLAMINE (ug/l)	20.0 U
NITROSO-DI-ETHYLAMINE (ug/l)	20.0 U

ISOPHORONE (ug/l)	10.0 U
NAPHTHALENE (ug/l)	10.0 U
NITROBENZENE (ug/l)	10.0 U
N-NITROSO-di-n-PROPYLAMINE (ug/l)	20.0 U
N-NITROSODIPHENYLAMINE (ug/l)	20.0 U
N-NITROSODIMETHYLAMINE (ug/l)	50.0 U
PHENANTHRENE (ug/l)	10.0 U
PYRENE (ug/l)	10.0 U
1,2,4-TRICHLOROBENZENE (ug/l)	10.0 U
1,2,4,5-TETRACHLOROBENZENE (ug/l	20.0 U
2, 4-DINITROTOLUENE (ug/l)	10.0 U
2, 6-DINTROTOLUENE (ug/l)	10.0 U
2-METHYLNAPHTHALENE (ug/l)	10.0 U
Di-n-octyl PHTHALATE (ug/l)	10.0 U
PYRIDINE (ug/l)	20.0 U
p-CRESOL (ug/l)	10.0 U

ACID COMPOUNDS
EFFLUENT (Cont.)

2-CHLOROPHENOL (ug/l)	10.0 U
2,4-DICHLOROPHENOL (ug/l)	10.0 U
2,4-DIMETHYLPHENOL (ug/l)	10.0 U
4, 6-DINITRO-o-CRESOL (ug/l)	50.0 U
4,6-DINITRO-2-METHYLPHENOL (ug/l)	20.0 U
2,4-DINITROPHENOL (ug/l)	50.0 U
2-NITROPHENOL (ug/l)	20.0 U
4-NITROPHENOL (ug/l)	50.0 U
p-CHLORO-m-CRESOL (ug/l)	10.0 U
2-METHYLPHENOL (ug/l)	10.0 U
PENTACHLOROPHENOL (ug/l)	5.0 U
PHENOL (ug/l)	10.0 U
2,4,6-TRICHLOROPHENOL (ug/l)	10.0 U
2,4,5-TRICHLOROPHENOL (ug/l)	50.0 U
PENTACHLOROBENZENE (ug/l)	20.0 U
4-CHLORO-3-METHYL PHENOL (ug/l)	10.0 U
NONYLPHENOL (ug/l)	5.0 U

lyzed by NELAC certified lab T104704231
. EPA-625.1 (Base/Neutrals & Acids)
Analyte Not Detected at the listed Detection Limit
Analyte Present but below Detection Limit

LAB REPRESENTATIVE

ENVIRODYNE LABORATORIES, INC.

CLIENT:	BCMUD #31 PERMIT RENEWAL (Si Environmental)	LAB NUMBER:	23J0933C
DATE COLLECTED:	05-Oct-23	DATE RECEIVED:	05-Oct-23
DATE COMPLETED:	03-Nov-23	SAMPLED BY:	AS
LOCATION:	Composite EFFLUENT		

PARAMETERS:

METALS	CONCENTRATION	METHOD	INITIALS	MAL
TOTAL ALUMINUM (ug/l)	21.8	EPA 200.7	DRJ	2.5
TOTAL ANTIMONY (ug/l)	<5.0	EPA 200.7	DRJ	5.0
TOTAL ARSENIC (ug/l)	<0.5	EPA 200.7	DRJ	0.5
TOTAL BARIUM (ug/l)	281.0	EPA 200.7	DRJ	3.0
TOTAL BERYLLIUM (ug/l)	<0.5	EPA 200.7	DRJ	0.5
TOTAL CADMIUM (ug/l)	<0.50	EPA 200.7	DRJ	1.0
TOTAL CHROMIUM (ug/l)	<3.0	EPA 200.7	DRJ	3.0
HEX CHROMIUM (ug/l)	<3.0	3500 - Cr D	SSJ	3.0
TRI CHROMIUM (ug/l)	<3.0	N/A	DRJ	3.0
TOTAL COPPER (ug/l)	<2.0	EPA 200.7	DRJ	2.0
TOTAL LEAD (ug/l)	<0.5	EPA 200.7	DRJ	<0.5
TOTAL MERCURY (ug/l)	*< 0.005	245.1	SUB	<0.005
TOTAL NICKEL (ug/l)	<2.0	EPA 200.7	DRJ	2.0
TOTAL SELENIUM (ug/l)	<5.0	EPA 200.7	DRJ	5.0
TOTAL SILVER (ug/l)	<0.5	EPA 200.7	DRJ	0.5
TOTAL THALLIUM (ug/l)	<0.5	EPA 200.7	DRJ	0.5
TOTAL ZINC (ug/l)	51.0	EPA 200.7	DRJ	5.0
AMENABLE CYANIDE (ug/l)	*<10.0	EPA 335.4	SUB	10.0
TOTAL PHENOLS (ug/l)	*<10.0	EPA 420.4	SUB	10.0
FLUORIDE (ug/l)	870.0	SM 4500-F C	SKP	500.0
NITRATE-N (ug/l)	730.0	EPA 353.1	SSJ	100.0

LAB REPRESENTATIVE

Ref. EPA METHODS FOR CHEMICAL ANALYSIS
*Analyzed by NELAC certified lab T104704215

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: **BCMUD #31 PERMIT RENEWAL**
(Si Environmental)

DATE COLLECTED: 05-Oct-23

DATE COMPLETED 12-Oct-23

LAB NUMBER: 23J0933D

DATE RECEIVED: 05-Oct-23

SAMPLED BY: AS

SAMPLE TYPE:		
LOCATION:	EFFLUENT	EFFLUENT
PARAMETERS:	PESTICIDES-PCB	PESTICIDES-PCB

EPA 1657*

Guthion (Azinphos Methyl) (ug/l)	< 0.10
Chlorpyrifos (ug/l)	< 0.05
Demeton -O (ug/l)	< 0.20
Demeton -S (ug/l)	< 0.20
Diazinon (ug/l)	< 0.5
Disulfoton (ug/l)	< 0.5
EPN (ug/l)	< 0.5
Ethion (ug/l)	< 0.5
Ethyl Parathion (ug/l)	< 0.1
Malathion (ug/l)	< 0.10
Methyl Parathion (ug/l)	< 0.1
Parathion (ug/l)	< 0.10

EPA 608*

Aldrin (ug/l)	< 0.01
Alpha - BHC (ug/l) (Hexachlorocyclohexane)	< 0.05
Beta - BHC (ug/l)	< 0.05

EPA 608*

Chlordane (ug/l)	< 0.15
4-4' - DDD (ug/l)	< 0.10
4-4' - DDE (ug/l)	< 0.10
4-4' - DDT (ug/l)	< 0.02
Dieldrin (ug/l)	< 0.02
Dicofol (ug/l)	< 1.0
Endosulfan I (ug/l)	< 0.01
Endosulfan II (ug/l)	< 0.02
Endosulfan Sulfate (ug/l)	< 0.10
Endrin (ug/l)	< 0.02
Gamma-BHC (Lindane) (ug/l)	< 0.05
Heptachlor (ug/l)	< 0.01
Heptaclor Epoxide (ug/l)	< 0.01
Methoxychlor (ug/l)	< 0.20
Mirex (ug/l)	< 0.02
Total PCBs (ug/l)	< 0.2
PCB-1016 (ug/l)	< 0.2
PCB-1221 (ug/l)	< 0.2
PCB-1232 (ug/l)	< 0.2
PCB-1242 (ug/l)	< 0.2
PCB-1248 (ug/l)	< 0.2
PCB-1254 (ug/l)	< 0.2
PCB-1260 (ug/l)	< 0.2
Toxaphene (ug/l)	< 0.3
Endrin Aldehyde (ug/l)	< 0.10
Delta - BHC (ug/l)	< 0.05

EPA 632*

Diuron (ug/l)	<0.09

EPA 8151*

2,4-D (ug/l)	< 0.7
2,4,5-TP (Silvex) (ug/l)	< 0.3

EPA 625*

Carbaryl (ug/l)	< 5.0

*Analyzed by NELAP certified lab T104704231

LAB REPRESENTATIVE

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: BCMUD #31 PERMIT RENEWAL (Si Environmental)
DATE COLLECTED: 05-Oct-23
DATE COMPLETED: 12-Oct-23

LAB NUMBER: 23J0933E
DATE RECEIVED: 05-Oct-23
SAMPLED BY: AS

SAMPLE TYPE: / LOCATION: / PARAMETERS:	Comp EFFLUENT @ 0700	METHOD #	ANALYST
pH (Units)	*7.14	SM 4500 H+ B	AS
DO (mg/l)	*6.94	SM 4500-O C	AS
CHLORINE RESIDUAL (mg/l)	*2.11	SM 4500 Cl G	AS
CBOD-5 (mg/l)	2.6	SM 5210 B	MJC
T.S.S. (mg/l)	<2.0	SM 2540 D	TB
NH3-N (mg/l)	0.20	EPA 350.1	SSJ
TKN-N (mg/l)	**2.20	SM 4500-NH3 D	SUB
NO3-N (mg/l)	0.73	EPA 353.1	SSJ
SULFATE (mg/l)	10.0	EPA 375.4	SSJ
CHLORIDE (mg/l)	283.0	SM 4500-Cl B	CFH
T. DISSOLVED SOLIDS (mg/l)	792.0	SM 2540 C	NMV
T. PHOSPHORUS as P (mg/l)	0.52	SM 4500-P E	CFH
OIL and GREASE (mg/l)	*<5.0	EPA 1664A	CFH
ALKALINITY as CaCO3 (mg/l)	209.0	EPA 310.2	SSJ
CONDUCTIVITY @ 25C (umho/cm)	1670	SM 2510 B	CFH
E. COLI (MPN/100 ml)	*<1	SM 9223B	CG
ENTEROCOCCI (MPN/100 ml)	*<1	ENTEROLERT	CG

**Analyzed by NELAC certified lab T104704231
*Grab sample at 1336

CERTIFIED BY

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

Microbiology - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J3933 - Microbiology										
Blank (B3J3933-BLK1)				Prepared & Analyzed: 05-Oct-23						
Enterococci	<1	1	MPN/100 mL							
Duplicate (B3J3933-DUP1)		**Source: 23J0630-02**		Prepared & Analyzed: 05-Oct-23						
Enterococci	<2	2	MPN/100 mL		2.00				0.5366	
Batch B3J3947 - Microbiology										
Blank (B3J3947-BLK1)				Prepared & Analyzed: 05-Oct-23						
E.coli	<1	1	MPN/100 mL							
Duplicate (B3J3947-DUP1)		**Source: 23J0557-01**		Prepared & Analyzed: 05-Oct-23						
E.coli	<2	2	MPN/100 mL		<2			0	0.402	

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J3698 - Inorganics										
Blank (B3J3698-BLK1)				Prepared: 06-Oct-23 Analyzed: 09-Oct-23						
Nitrate-N	<0.50	0.50	mg/L							
Blank (B3J3698-BLKA)				Prepared & Analyzed: 06-Oct-23						
Nitrate-N	<0.50	0.50	mg/L							
LCS (B3J3698-BS1)				Prepared & Analyzed: 06-Oct-23						
Nitrate-N	3.14		mg/L	3.00		105	90-110			
Matrix Spike (B3J3698-MS1)		Source: 23J0725-01		Prepared & Analyzed: 06-Oct-23						
Nitrate-N	92.6	10.0	mg/L	60.0	30.2	104	80-120			
Matrix Spike Dup (B3J3698-MSD1)		Source: 23J0725-01		Prepared & Analyzed: 06-Oct-23						
Nitrate-N	90.2	10.0	mg/L	60.0	30.2	100	80-120	2.63	20	
Batch B3J4006 - Inorganics										
Blank (B3J4006-BLK1)				Prepared & Analyzed: 09-Oct-23						
TDS	<50.0	50.0	mg/L							
LCS (B3J4006-BS1)				Prepared & Analyzed: 09-Oct-23						
TDS	494		mg/L	500		98.8	0-200			
Duplicate (B3J4006-DUP1)		Source: 23J0579-01		Prepared & Analyzed: 09-Oct-23						
TDS	248	50.0	mg/L		264			6.25	20	
Batch B3J4084 - Inorganics										
Blank (B3J4084-BLK1)				Prepared & Analyzed: 10-Oct-23						
Sulfate	<2.00	2.00	mg/L							

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J4084 - Inorganics										
LCS (B3J4084-BS1)				Prepared & Analyzed: 10-Oct-23						
Sulfate	20.5		mg/L	20.0		102	90-110			
Matrix Spike (B3J4084-MS1)		Source: 23J0933-01		Prepared & Analyzed: 10-Oct-23						
Sulfate	429	40.0	mg/L	400	ND	107	80-120			
Matrix Spike Dup (B3J4084-MSD1)		Source: 23J0933-01		Prepared & Analyzed: 10-Oct-23						
Sulfate	426	40.0	mg/L	400	ND	106	80-120	0.795	20	
Batch B3J4086 - Inorganics										
Blank (B3J4086-BLK1)				Prepared & Analyzed: 10-Oct-23						
Alkalinity (Total) as CaCO3	<20.0	20.0	mg/L							
LCS (B3J4086-BS1)				Prepared & Analyzed: 10-Oct-23						
Alkalinity (Total) as CaCO3	95.0		mg/L	100		95.0	90-110			
Duplicate (B3J4086-DUP1)		Source: 23J0670-01		Prepared & Analyzed: 10-Oct-23						
Alkalinity (Total) as CaCO3	153	20.0	mg/L		155			0.708	20	
Batch B3J4180 - Inorganics										
Blank (B3J4180-BLK1)				Prepared & Analyzed: 11-Oct-23						
TSS	<2.0	2.0	mg/L							
LCS (B3J4180-BS1)				Prepared & Analyzed: 11-Oct-23						
TSS	80.0		mg/L	100		80.0	80-120			

Envirodyne Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J4180 - Inorganics										
Duplicate (B3J4180-DUP1)		**Source: 23J0151-01**		Prepared & Analyzed: 11-Oct-23						
TSS	4.8	2.0	mg/L		5.0			4.08	20	
Batch B3J4302 - Inorganics										
Blank (B3J4302-BLK1)				Prepared & Analyzed: 11-Oct-23						
Ammonia-N (NH3-N)	<0.20	0.20	mg/L							
LCS (B3J4302-BS1)				Prepared & Analyzed: 11-Oct-23						
Ammonia-N (NH3-N)	1.06		mg/L	1.00		106	90-110			
Matrix Spike (B3J4302-MS1)		**Source: 23J0152-01**		Prepared & Analyzed: 11-Oct-23						
Ammonia-N (NH3-N)	1.17	0.20	mg/L	1.00	0.15	102	90-110			
Matrix Spike Dup (B3J4302-MSD1)		**Source: 23J0152-01**		Prepared & Analyzed: 11-Oct-23						
Ammonia-N (NH3-N)	1.18	0.20	mg/L	1.00	0.15	103	90-110	0.851	20	
Batch B3J4353 - Inorganics										
Blank (B3J4353-BLK1)				Prepared & Analyzed: 12-Oct-23						
Fluoride	<0.10	0.10	mg/L							
LCS (B3J4353-BS1)				Prepared & Analyzed: 12-Oct-23						
Fluoride	0.48		mg/L	0.500		96.4	90-110			
Matrix Spike (B3J4353-MS1)		**Source: 23J1205-01**		Prepared & Analyzed: 12-Oct-23						
Fluoride	1.12	0.20	mg/L	1.00	ND	112	80-120			

Envirodyne Laboratories, Inc.

Laura Bonjonia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia For Sarah Chaplain, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J4353 - Inorganics										
Matrix Spike Dup (B3J4353-MSD1)		**Source: 23J1205-01**		Prepared & Analyzed: 12-Oct-23						
Fluoride	1.14	0.20	mg/L	1.00	ND	114	80-120	1.24	20	
Batch B3J4384 - Inorganics										
Blank (B3J4384-BLK1)				Prepared & Analyzed: 06-Oct-23						
CBOD-5	<2.0	2.0	mg/L							
LCS (B3J4384-BS1)				Prepared & Analyzed: 06-Oct-23						
CBOD-5	201		mg/L	198		102	84.6-115.4			
Duplicate (B3J4384-DUP1)		**Source: 23J0671-01**		Prepared & Analyzed: 06-Oct-23						
CBOD-5	7.10	2.0	mg/L		7.30			2.78	20	
Batch B3J4454 - Inorganics										
Blank (B3J4454-BLK1)				Prepared & Analyzed: 12-Oct-23						
Conductivity at 25 C	<30	30	umho/cm							
Duplicate (B3J4454-DUP1)		**Source: 23J0951-02**		Prepared & Analyzed: 12-Oct-23						
Conductivity at 25 C	524	30	umho/cm		525			0.248	20	
Reference (B3J4454-SRM1)				Prepared & Analyzed: 12-Oct-23						
Conductivity at 25 C	181		umho/cm	180		100	90-110			
Batch B3J4691 - Inorganics										
Blank (B3J4691-BLK1)				Prepared & Analyzed: 16-Oct-23						
Oil & Grease	<5.0	5.0	mg/L							

Envirodyne Laboratories, Inc.

Laura Bonjonia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia For Sarah Chaplain, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J4691 - Inorganics										
LCS (B3J4691-BS1)				Prepared & Analyzed: 16-Oct-23						
Oil & Grease	34.1		mg/L	40.0		85.3	78-114			
LCS Dup (B3J4691-BSD1)				Prepared & Analyzed: 16-Oct-23						
Oil & Grease	32.0		mg/L	40.0		80.0	78-114	6.38	18	
Batch B3J4825 - Inorganics										
Blank (B3J4825-BLK1)				Prepared: 17-Oct-23 Analyzed: 18-Oct-23						
Phosphorus, Total	<0.10	0.10	mg/L							
LCS (B3J4825-BS1)				Prepared: 17-Oct-23 Analyzed: 18-Oct-23						
Phosphorus, Total	0.990		mg/L	1.00		99.0	80-120			
Matrix Spike (B3J4825-MS1)	**Source: 23J1212-01**			Prepared: 17-Oct-23 Analyzed: 18-Oct-23						
Phosphorus, Total	1.20	0.10	mg/L	1.00	0.150	105	80-120			
Matrix Spike Dup (B3J4825-MSD1)	**Source: 23J1212-01**			Prepared: 17-Oct-23 Analyzed: 18-Oct-23						
Phosphorus, Total	1.22	0.10	mg/L	1.00	0.150	107	80-120	1.65	20	
Batch B3J5089 - Inorganics										
Blank (B3J5089-BLK1)				Prepared & Analyzed: 19-Oct-23						
Chloride	<3.0	3.0	mg/L							Q
LCS (B3J5089-BS1)				Prepared & Analyzed: 19-Oct-23						
Chloride	93.9		mg/L	100		93.9	90-110			Q

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J5089 - Inorganics										
Matrix Spike (B3J5089-MS1)	**Source: 23J0907-01**			Prepared & Analyzed: 19-Oct-23						
Chloride	51.6	12.0	mg/L	20.0	33.8	89.2	80-120			Q
Matrix Spike Dup (B3J5089-MSD1)	**Source: 23J0907-01**			Prepared & Analyzed: 19-Oct-23						
Chloride	49.6	12.0	mg/L	20.0	33.8	79.4	80-120	3.87	20	Q

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

Metals - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J3693 - Inorganics										
Blank (B3J3693-BLKA)				Prepared & Analyzed: 06-Oct-23						
Chromium, Hexavalent	<1.0	1.0	ug/L							
LCS (B3J3693-BS1)				Prepared & Analyzed: 06-Oct-23						
Chromium, Hexavalent	50.8		ug/L	50.0		102	95-105			
Matrix Spike (B3J3693-MS1)	**Source: 23J0942-01**			Prepared & Analyzed: 06-Oct-23						
Chromium, Hexavalent	49.9	1.0	ug/L	50.0	ND	99.8	80-120			
Matrix Spike Dup (B3J3693-MSD1)	**Source: 23J0942-01**			Prepared & Analyzed: 06-Oct-23						
Chromium, Hexavalent	49.8	1.0	ug/L	50.0	ND	99.6	80-120	0.201	20	

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: Si Environmental, LLC
Project: Brazoria Co. MUD #31 - Permit Renewal
Work Order: 23J0933

Reported:
03-Nov-23 17:55

Total Metals by ICP - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K2852 - Metals - EPA 200.2										
Blank (B3K2852-BLK1)				Prepared: 01-Nov-23 Analyzed: 03-Nov-23						
Cadmium	<5.00	5.00	ug/L							
Selenium	<5.0	5.0	"							
Aluminum	<5.0	5.0	"							
Lead	<5.0	5.0	"							
Beryllium	<5.0	5.0	"							
Thallium	<5.0	5.0	"							
Chromium	<5.0	5.0	"							
Copper	<5.0	5.0	"							
Barium	<5.0	5.0	"							
Nickel	<5.0	5.0	"							
Arsenic	<5.0	5.0	"							
Zinc	<5.0	5.0	"							
Antimony	<5.0	5.0	"							
LCS (B3K2852-BS1)				Prepared: 01-Nov-23 Analyzed: 03-Nov-23						
Copper	250		ug/L	250		100	85-115			
Beryllium	243		"	250		97.2	85-115			
Nickel	245		"	250		98.0	85-115			
Aluminum	242		"	250		96.8	85-115			
Thallium	247		"	250		98.8	85-115			
Zinc	247		"	250		98.8	85-115			
Chromium	242		"	250		96.8	85-115			
Cadmium	242		"	250		96.8	85-115			
Selenium	246		"	250		98.4	85-115			
Lead	240		"	250		97.6	85-115			
Arsenic	241		"	250		96.4	85-115			
Barium	242		"	250		96.8	85-115			
Antimony	242		"	250		96.8	85-115			

Envirodyne Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia For Sarah Chaplain, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC
Project:	Brazoria Co. MUD #31 - Permit Renewal
Work Order:	23J0933

Reported:
03-Nov-23 17:55

Total Metals by ICP - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K2852 - Metals - EPA 200.2										
Matrix Spike (B3K2852-MS1)	**Source: 23J3112-03**			Prepared: 01-Nov-23 Analyzed: 03-Nov-23						
Zinc	1110	10.0	ug/L	1000	36.3	107	70-130			
Aluminum	978	10.0	"	1000	22.4	95.6	70-130			
Thallium	952	10.0	"	1000	ND	95.2	70-130			
Nickel	1000	10.0	"	1000	ND	100	70-130			
Arsenic	1090	10.0	"	1000	ND	109	70-130			
Chromium	1010	10.0	"	1000	ND	101	70-130			
Selenium	1100	10.0	"	1000	ND	110	70-130			
Beryllium	1070	10.0	"	1000	ND	107	70-130			
Lead	960	10	"	1000	ND	96.0	70-130			
Copper	1000	10.0	"	1000	1.23	99.9	70-130			
Cadmium	1010	10.0	"	1000	ND	101	70-130			
Barium	1130	10.0	"	1000	146	98.0	70-130			
Antimony	1070	10.0	"	1000	ND	107	70-130			
Matrix Spike Dup (B3K2852-MSD1)	**Source: 23J3112-03**			Prepared: 01-Nov-23 Analyzed: 03-Nov-23						
Chromium	1020	10.0	ug/L	1000	ND	102	70-130	0.987	20	
Arsenic	1080	10.0	"	1000	ND	108	70-130	0.184	20	
Lead	960	10	"	1000	ND	96.0	70-130	0.00	20	
Aluminum	990	10.0	"	1000	22.4	96.8	70-130	1.22	20	
Barium	1130	10.0	"	1000	146	98.6	70-130	0.531	20	
Beryllium	1080	10.0	"	1000	ND	108	70-130	0.932	20	
Nickel	1000	10.0	"	1000	ND	100	70-130	0.199	20	
Copper	1010	10.0	"	1000	1.23	101	70-130	0.797	20	
Thallium	942	10.0	"	1000	ND	94.2	70-130	1.06	20	
Cadmium	1020	10.0	"	1000	ND	102	70-130	0.786	20	
Zinc	1120	10.0	"	1000	36.3	109	70-130	1.26	20	
Selenium	1090	10.0	"	1000	ND	109	70-130	0.915	20	
Antimony	1070	10.0	"	1000	ND	107	70-130	0.373	20	

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Si Environmental, LLC	
Project:	Brazoria Co. MUD #31 - Permit Renewal	**Reported:**
Work Order:	23J0933	03-Nov-23 17:55

Notes and Definitions

Q	QC did not meet ELI acceptance criteria
L	Analyzed by third party laboratory
I	Greater than 30% difference between highest and lowest values
H	Hold time exceeded
ND	Analyte NOT DETECTED at or above the reporting limit
<	Result is less than the RL
a	Analyte not available for TNI/NELAP accreditation
n	Not accredited

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Sarah Chaplain, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201625 (0) **Instrument:** ECD_7 **Method:** CHLORINATED PEST/PCBS BY E608

MBLK Sample ID: **MBLK-201625** Units: **ug/L** Analysis Date: **10-Oct-2023 16:30**
Client ID: Run ID: **ECD_7_448719** SeqNo: **7599829** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.500								
Aroclor 1221	ND	0.500								
Aroclor 1232	ND	0.500								
Aroclor 1242	ND	0.500								
Aroclor 1248	ND	0.500								
Aroclor 1254	ND	0.500								
Aroclor 1260	ND	0.500								
Surr: Decachlorobiphenyl	*0.1768*	*0.100*	*0.2*	*0*	*88.4*	*61 - 154*				
Surr: Tetrachlor-m-xylene	*0.1976*	*0.0500*	*0.2*	*0*	*98.8*	*60 - 144*				

LCS Sample ID: **LCS-201625** Units: **ug/L** Analysis Date: **10-Oct-2023 16:05**
Client ID: Run ID: **ECD_7_448719** SeqNo: **7599827** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.183	0.500	5	0	83.7	54 - 138				
Aroclor 1260	3.724	0.500	5	0	74.5	57 - 136				
Surr: Decachlorobiphenyl	*0.1508*	*0.100*	*0.2*	*0*	*75.4*	*61 - 154*				
Surr: Tetrachlor-m-xylene	*0.168*	*0.0500*	*0.2*	*0*	*84.0*	*60 - 144*				

LCSD Sample ID: **LCSD-201625** Units: **ug/L** Analysis Date: **10-Oct-2023 16:17**
Client ID: Run ID: **ECD_7_448719** SeqNo: **7599828** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	5.102	0.500	5	0	102	54 - 138	4.183	19.8	20	
Aroclor 1260	5.235	0.500	5	0	105	57 - 136	3.724	33.7	20	R
Surr: Decachlorobiphenyl	*0.1766*	*0.100*	*0.2*	*0*	*88.3*	*61 - 154*	*0.1508*	*15.8*	*20*	
Surr: Tetrachlor-m-xylene	*0.1887*	*0.0500*	*0.2*	*0*	*94.4*	*60 - 144*	*0.168*	*11.6*	*20*	

The following samples were analyzed in this batch: HS23100476-01

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201625 (2) **Instrument:** ECD_11 **Method:** CHLORINATED PEST/PCBS BY E608

MBLK Sample ID: **MBLK-201625** Units: **ug/L** Analysis Date: **12-Oct-2023 01:46**
Client ID: Run ID: **ECD_11_448909** SeqNo: **7604153** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
4,4'-DDD	ND	0.100								
4,4'-DDE	ND	0.100								
4,4'-DDT	ND	0.100								
Chlordane	ND	0.500								
delta-BHC	ND	0.0500								
Dieldrin	ND	0.100								
Endosulfan I	ND	0.0500								
Endosulfan II	ND	0.100								
Endosulfan sulfate	ND	0.100								
Endrin	ND	0.100								
Endrin aldehyde	ND	0.100								
gamma-BHC	ND	0.0500								
Heptachlor	ND	0.0500								
Heptachlor epoxide	ND	0.0500								
Methoxychlor	ND	0.500								
Toxaphene	ND	0.500								
Surr: Decachlorobiphenyl	*0.2808*	*0.100*	*0.2*	*0*	*140*	*61 - 154*				
Surr: Tetrachlor-m-xylene	*0.1855*	*0.0500*	*0.2*	*0*	*92.7*	*60 - 144*				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201625 (2) **Instrument: ECD_11** **Method: CHLORINATED PEST/PCBS BY E608**

LCS Sample ID: **LCS1-201625** Units: **ug/L** Analysis Date: **12-Oct-2023 01:05**
Client ID: Run ID: **ECD_11_448909** SeqNo: **7604151** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.6423	0.100	0.5	0	128	53 - 144				
4,4´-DDE	0.664	0.100	0.5	0	133	55 - 144				
4,4´-DDT	0.6879	0.100	0.5	0	138	53 - 149				
delta-BHC	0.3411	0.0500	0.25	0	136	48 - 146				
Dieldrin	0.6471	0.100	0.5	0	129	56 - 144				
Endosulfan I	0.287	0.0500	0.25	0	115	55 - 141				
Endosulfan II	0.6372	0.100	0.5	0	127	57 - 144				
Endosulfan sulfate	0.6973	0.100	0.5	0	139	58 - 145				
Endrin	0.7944	0.100	0.5	0	159	60 - 163				
Endrin aldehyde	0.6793	0.100	0.5	0	136	59 - 158				
gamma-BHC	0.3255	0.0500	0.25	0	130	53 - 142				
Heptachlor	0.3402	0.0500	0.25	0	136	51 - 144				
Heptachlor epoxide	0.3184	0.0500	0.25	0	127	55 - 142				
Methoxychlor	3.544	0.500	2.5	0	142	59 - 150				
Surr: Decachlorobiphenyl	*0.2709*	*0.100*	*0.2*	*0*	*135*	*61 - 154*				
Surr: Tetrachlor-m-xylene	*0.2245*	*0.0500*	*0.2*	*0*	*112*	*60 - 144*				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201625 (2) **Instrument: ECD_11** **Method: CHLORINATED PEST/PCBS BY E608**

LCSD Sample ID: **LCSD1-201625** Units: **ug/L** Analysis Date: **12-Oct-2023 01:26**
Client ID: Run ID: **ECD_11_448909** SeqNo: **7604152** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.476	0.100	0.5	0	95.2	53 - 144	0.6423	29.7	20	R
4,4'-DDE	0.4951	0.100	0.5	0	99.0	55 - 144	0.664	29.2	20	R
4,4'-DDT	0.5038	0.100	0.5	0	101	53 - 149	0.6879	30.9	20	R
delta-BHC	0.2561	0.0500	0.25	0	102	48 - 146	0.3411	28.5	20	R
Dieldrin	0.4905	0.100	0.5	0	98.1	56 - 144	0.6471	27.5	20	R
Endosulfan I	0.2228	0.0500	0.25	0	89.1	55 - 141	0.287	25.2	20	R
Endosulfan II	0.477	0.100	0.5	0	95.4	57 - 144	0.6372	28.8	20	R
Endosulfan sulfate	0.5304	0.100	0.5	0	106	58 - 145	0.6973	27.2	20	R
Endrin	0.5836	0.100	0.5	0	117	60 - 163	0.7944	30.6	20	R
Endrin aldehyde	0.5216	0.100	0.5	0	104	59 - 158	0.6793	26.3	20	R
gamma-BHC	0.2528	0.0500	0.25	0	101	53 - 142	0.3255	25.1	20	R
Heptachlor	0.2665	0.0500	0.25	0	107	51 - 144	0.3402	24.3	20	R
Heptachlor epoxide	0.2497	0.0500	0.25	0	99.9	55 - 142	0.3184	24.2	20	R
Methoxychlor	2.588	0.500	2.5	0	104	59 - 150	3.544	31.2	20	R
Surr: Decachlorobiphenyl	*0.2875*	*0.100*	*0.2*	*0*	*144*	*61 - 154*	*0.2709*	*5.94*	*20*	
Surr: Tetrachlor-m-xylene	*0.1804*	*0.0500*	*0.2*	*0*	*90.2*	*60 - 144*	*0.2245*	*21.8*	*20*	R

The following samples were analyzed in this batch: HS23100476-01

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201775 (0) **Instrument: HG04** **Method: MERCURY BY E245.1, R3.0, 1994**

MBLK Sample ID: **MBLK-201775** Units: **mg/L** Analysis Date: **11-Oct-2023 15:28**
Client ID: Run ID: **HG04_448759** SeqNo: **7601153** PrepDate: **11-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

LCS Sample ID: **LCS-201775** Units: **mg/L** Analysis Date: **11-Oct-2023 15:29**
Client ID: Run ID: **HG04_448759** SeqNo: **7601154** PrepDate: **11-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00513	0.000200	0.005	0	103	85 - 115				

MS Sample ID: **HS23100373-01MS** Units: **mg/L** Analysis Date: **11-Oct-2023 15:33**
Client ID: Run ID: **HG04_448759** SeqNo: **7601156** PrepDate: **11-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00512	0.000200	0.005	0.000013	102	70 - 130				

MSD Sample ID: **HS23100373-01MSD** Units: **mg/L** Analysis Date: **11-Oct-2023 15:34**
Client ID: Run ID: **HG04_448759** SeqNo: **7601157** PrepDate: **11-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00507	0.000200	0.005	0.000013	101	70 - 130	0.00512	0.981	20	

The following samples were analyzed in this batch: HS23100476-02

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201663 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILE

MBLK Sample ID: **MBLK-201663** Units: **ug/L** Analysis Date: **10-Oct-2023 12:36**
Client ID: Run ID: **SV-4_448658** SeqNo: **7598230** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	5.00								
1,2-Dichlorobenzene	ND	5.00								
1,2-Diphenylhydrazine	ND	5.00								
1,3-Dichlorobenzene	ND	5.00								
1,4-Dichlorobenzene	ND	5.00								
2,4,6-Trichlorophenol	ND	5.00								
2,4-Dichlorophenol	ND	5.00								
2,4-Dimethylphenol	ND	5.00								
2,4-Dinitrophenol	ND	5.00								
2,4-Dinitrotoluene	ND	5.00								
2,6-Dinitrotoluene	ND	5.00								
2-Chloronaphthalene	ND	5.00								
2-Chlorophenol	ND	5.00								
2-Nitrophenol	ND	5.00								
3,3´-Dichlorobenzidine	ND	5.00								
4,6-Dinitro-2-methylphenol	ND	5.00								
4-Bromophenyl phenyl ether	ND	5.00								
4-Chloro-3-methylphenol	ND	5.00								
4-Chlorophenyl phenyl ether	ND	5.00								
4-Nitrophenol	ND	5.00								
Acenaphthene	ND	5.00								
Acenaphthylene	ND	5.00								
Anthracene	ND	5.00								
Benz(a)anthracene	ND	5.00								
Benzidine	ND	5.00								
Benzo(a)pyrene	ND	5.00								
Benzo(b)fluoranthene	ND	5.00								
Benzo(g,h,i)perylene	ND	5.00								
Benzo(k)fluoranthene	ND	5.00								
Bis(2-chloroethoxy)methane	ND	5.00								
Bis(2-chloroethyl)ether	ND	5.00								
Bis(2-chloroisopropyl)ether	ND	5.00								
Bis(2-ethylhexyl)phthalate	ND	5.00								
Butyl benzyl phthalate	ND	5.00								

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201663 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILE

MBLK Sample ID: **MBLK-201663** Units: **ug/L** Analysis Date: **10-Oct-2023 12:36**
Client ID: Run ID: **SV-4_448658** SeqNo: **7598230** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chrysene	ND	5.00								
Dibenz(a,h)anthracene	ND	5.00								
Diethyl phthalate	ND	5.00								
Dimethyl phthalate	ND	5.00								
Di-n-butyl phthalate	ND	5.00								
Di-n-octyl phthalate	ND	5.00								
Fluoranthene	ND	5.00								
Fluorene	ND	5.00								
Hexachlorobenzene	ND	5.00								
Hexachlorobutadiene	ND	5.00								
Hexachlorocyclopentadiene	ND	5.00								
Hexachloroethane	ND	5.00								
Indeno(1,2,3-cd)pyrene	ND	5.00								
Isophorone	ND	5.00								
Naphthalene	ND	5.00								
Nitrobenzene	ND	5.00								
N-Nitrosodimethylamine	ND	5.00								
N-Nitrosodi-n-propylamine	ND	5.00								
N-Nitrosodiphenylamine	ND	5.00								
Pentachlorophenol	ND	5.00								
Phenanthrene	ND	5.00								
Phenol	ND	5.00								
Pyrene	ND	5.00								
Surr: 2,4,6-Tribromophenol	*66.86*	*5.00*	*100*	*0*	*66.9*	*42 - 124*				
Surr: 2-Fluorobiphenyl	*77.67*	*5.00*	*100*	*0*	*77.7*	*48 - 120*				
Surr: 2-Fluorophenol	*65.16*	*5.00*	*100*	*0*	*65.2*	*20 - 120*				
Surr: 4-Terphenyl-d14	*79.86*	*5.00*	*100*	*0*	*79.9*	*51 - 135*				
Surr: Nitrobenzene-d5	*81.31*	*5.00*	*100*	*0*	*81.3*	*41 - 120*				
Surr: Phenol-d6	*71.26*	*5.00*	*100*	*0*	*71.3*	*20 - 120*				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201663 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILE

LCS Sample ID: **LCS-201663** Units: **ug/L** Analysis Date: **10-Oct-2023 12:58**
Client ID: Run ID: **SV-4_448658** SeqNo: **7598231** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	88.58	5.00	100	0	88.6	54 - 118				
1,2-Dichlorobenzene	88.64	5.00	100	0	88.6	49 - 115				
1,2-Diphenylhydrazine	104	5.00	100	0	104	57 - 134				
1,3-Dichlorobenzene	88.5	5.00	100	0	88.5	56 - 115				
1,4-Dichlorobenzene	88.59	5.00	100	0	88.6	56 - 115				
2,4,6-Trichlorophenol	93.58	5.00	100	0	93.6	56 - 115				
2,4-Dichlorophenol	88.2	5.00	100	0	88.2	53 - 115				
2,4-Dimethylphenol	77.06	5.00	100	0	77.1	53 - 115				
2,4-Dinitrophenol	88.37	5.00	100	0	88.4	47 - 115				
2,4-Dinitrotoluene	90.67	5.00	100	0	90.7	56 - 115				
2,6-Dinitrotoluene	92.77	5.00	100	0	92.8	57 - 115				
2-Chloronaphthalene	114.7	5.00	100	0	115	65 - 125				
2-Chlorophenol	90.4	5.00	100	0	90.4	54 - 115				
2-Nitrophenol	97.08	5.00	100	0	97.1	53 - 115				
3,3'-Dichlorobenzidine	81.77	5.00	100	0	81.8	25 - 115				
4,6-Dinitro-2-methylphenol	100.9	5.00	100	0	101	51 - 121				
4-Bromophenyl phenyl ether	91.14	5.00	100	0	91.1	49 - 115				
4-Chloro-3-methylphenol	91.28	5.00	100	0	91.3	51 - 115				
4-Chlorophenyl phenyl ether	86.89	5.00	100	0	86.9	56 - 115				
4-Nitrophenol	106.6	5.00	100	0	107	26 - 133				
Acenaphthene	91.08	5.00	100	0	91.1	57 - 115				
Acenaphthylene	95.49	5.00	100	0	95.5	57 - 118				
Anthracene	94.98	5.00	100	0	95.0	65 - 115				
Benz(a)anthracene	96.8	5.00	100	0	96.8	53 - 115				
Benzidine	40.93	5.00	100	0	40.9	10 - 115				
Benzo(a)pyrene	98.84	5.00	100	0	98.8	57 - 115				
Benzo(b)fluoranthene	112.2	5.00	100	0	112	54 - 117				
Benzo(g,h,i)perylene	89.44	5.00	100	0	89.4	56 - 115				
Benzo(k)fluoranthene	78.26	5.00	100	0	78.3	50 - 115				
Bis(2-chloroethoxy)methane	94.44	5.00	100	0	94.4	54 - 115				
Bis(2-chloroethyl)ether	110.2	5.00	100	0	110	56 - 115				
Bis(2-chloroisopropyl)ether	99.78	5.00	100	0	99.8	48 - 115				
Bis(2-ethylhexyl)phthalate	94.83	5.00	100	0	94.8	50 - 115				
Butyl benzyl phthalate	97.48	5.00	100	0	97.5	51 - 115				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201663 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILE

LCS Sample ID: **LCS-201663** Units: **ug/L** Analysis Date: **10-Oct-2023 12:58**
Client ID: Run ID: **SV-4_448658** SeqNo: **7598231** PrepDate: **09-Oct-2023** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chrysene	91.9	5.00	100	0	91.9	52 - 120				
Dibenz(a,h)anthracene	89.66	5.00	100	0	89.7	56 - 115				
Diethyl phthalate	88.74	5.00	100	0	88.7	57 - 115				
Dimethyl phthalate	88.03	5.00	100	0	88.0	56 - 115				
Di-n-butyl phthalate	93.9	5.00	100	0	93.9	54 - 115				
Di-n-octyl phthalate	97.51	5.00	100	0	97.5	49 - 115				
Fluoranthene	94.2	5.00	100	0	94.2	58 - 115				
Fluorene	90.11	5.00	100	0	90.1	56 - 115				
Hexachlorobenzene	91.71	5.00	100	0	91.7	54 - 115				
Hexachlorobutadiene	86.39	5.00	100	0	86.4	51 - 115				
Hexachlorocyclopentadiene	66.04	5.00	100	0	66.0	48 - 115				
Hexachloroethane	95.66	5.00	100	0	95.7	54 - 115				
Indeno(1,2,3-cd)pyrene	90.92	5.00	100	0	90.9	51 - 115				
Isophorone	93.22	5.00	100	0	93.2	55 - 115				
Naphthalene	91.69	5.00	100	0	91.7	55 - 115				
Nitrobenzene	97.91	5.00	100	0	97.9	40 - 124				
N-Nitrosodimethylamine	84.83	5.00	100	0	84.8	42 - 115				
N-Nitrosodi-n-propylamine	94.27	5.00	100	0	94.3	55 - 119				
N-Nitrosodiphenylamine	95.62	5.00	100	0	95.6	52 - 115				
Pentachlorophenol	95.43	5.00	100	0	95.4	45 - 125				
Phenanthrene	94.37	5.00	100	0	94.4	57 - 115				
Phenol	91.99	5.00	100	0	92.0	38 - 115				
Pyrene	97.16	5.00	100	0	97.2	54 - 119				
Surr: 2,4,6-Tribromophenol	*73.7*	*5.00*	*100*	*0*	*73.7*	*42 - 124*				
Surr: 2-Fluorobiphenyl	*87.46*	*5.00*	*100*	*0*	*87.5*	*48 - 120*				
Surr: 2-Fluorophenol	*79.93*	*5.00*	*100*	*0*	*79.9*	*20 - 120*				
Surr: 4-Terphenyl-d14	*88.57*	*5.00*	*100*	*0*	*88.6*	*51 - 135*				
Surr: Nitrobenzene-d5	*91.82*	*5.00*	*100*	*0*	*91.8*	*41 - 120*				
Surr: Phenol-d6	*82.72*	*5.00*	*100*	*0*	*82.7*	*20 - 120*				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201663 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILE

LCSD Sample ID: **LCSD-201663** Units: **ug/L** Analysis Date: **10-Oct-2023 14:47**
Client ID: Run ID: **SV-4_448658** SeqNo: **7598232** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	78.22	5.00	100	0	78.2	54 - 118	88.58	12.4	20	
1,2-Dichlorobenzene	76.72	5.00	100	0	76.7	49 - 115	88.64	14.4	20	
1,2-Diphenylhydrazine	91.86	5.00	100	0	91.9	57 - 134	104	12.4	20	
1,3-Dichlorobenzene	77.74	5.00	100	0	77.7	56 - 115	88.5	13	20	
1,4-Dichlorobenzene	77.25	5.00	100	0	77.3	56 - 115	88.59	13.7	20	
2,4,6-Trichlorophenol	83.54	5.00	100	0	83.5	56 - 115	93.58	11.3	20	
2,4-Dichlorophenol	78.34	5.00	100	0	78.3	53 - 115	88.2	11.8	20	
2,4-Dimethylphenol	70.12	5.00	100	0	70.1	53 - 115	77.06	9.43	20	
2,4-Dinitrophenol	76.94	5.00	100	0	76.9	47 - 115	88.37	13.8	20	
2,4-Dinitrotoluene	79.97	5.00	100	0	80.0	56 - 115	90.67	12.5	20	
2,6-Dinitrotoluene	78.8	5.00	100	0	78.8	57 - 115	92.77	16.3	20	
2-Chloronaphthalene	92.52	5.00	100	0	92.5	65 - 125	114.7	21.4	20	R
2-Chlorophenol	78.16	5.00	100	0	78.2	54 - 115	90.4	14.5	20	
2-Nitrophenol	86.42	5.00	100	0	86.4	53 - 115	97.08	11.6	20	
3,3'-Dichlorobenzidine	51.27	5.00	100	0	51.3	25 - 115	81.77	45.8	20	R
4,6-Dinitro-2-methylphenol	89.12	5.00	100	0	89.1	51 - 121	100.9	12.4	20	
4-Bromophenyl phenyl ether	79.36	5.00	100	0	79.4	49 - 115	91.14	13.8	20	
4-Chloro-3-methylphenol	84.44	5.00	100	0	84.4	51 - 115	91.28	7.78	20	
4-Chlorophenyl phenyl ether	78.13	5.00	100	0	78.1	56 - 115	86.89	10.6	20	
4-Nitrophenol	93.94	5.00	100	0	93.9	26 - 133	106.6	12.6	20	
Acenaphthene	80.97	5.00	100	0	81.0	57 - 115	91.08	11.8	20	
Acenaphthylene	83.97	5.00	100	0	84.0	57 - 118	95.49	12.8	20	
Anthracene	83.24	5.00	100	0	83.2	65 - 115	94.98	13.2	20	
Benz(a)anthracene	80	5.00	100	0	80.0	53 - 115	96.8	19	20	
Benzidine	22.62	5.00	100	0	22.6	10 - 115	40.93	57.6	20	R
Benzo(a)pyrene	86.42	5.00	100	0	86.4	57 - 115	98.84	13.4	20	
Benzo(b)fluoranthene	91.64	5.00	100	0	91.6	54 - 117	112.2	20.2	20	R
Benzo(g,h,i)perylene	80.75	5.00	100	0	80.8	56 - 115	89.44	10.2	20	
Benzo(k)fluoranthene	74.94	5.00	100	0	74.9	50 - 115	78.26	4.33	20	
Bis(2-chloroethoxy)methane	82.54	5.00	100	0	82.5	54 - 115	94.44	13.5	20	
Bis(2-chloroethyl)ether	99.46	5.00	100	0	99.5	56 - 115	110.2	10.3	20	
Bis(2-chloroisopropyl)ether	88.87	5.00	100	0	88.9	48 - 115	99.78	11.6	20	
Bis(2-ethylhexyl)phthalate	83.27	5.00	100	0	83.3	50 - 115	94.83	13	20	
Butyl benzyl phthalate	84.01	5.00	100	0	84.0	51 - 115	97.48	14.8	20	

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201663 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILE

LCSD Sample ID: **LCSD-201663** Units: **ug/L** Analysis Date: **10-Oct-2023 14:47**
Client ID: Run ID: **SV-4_448658** SeqNo: **7598232** PrepDate: **09-Oct-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Chrysene	83.56	5.00	100	0	83.6	52 - 120	91.9	9.5	20	
Dibenz(a,h)anthracene	80.61	5.00	100	0	80.6	56 - 115	89.66	10.6	20	
Diethyl phthalate	80.03	5.00	100	0	80.0	57 - 115	88.74	10.3	20	
Dimethyl phthalate	78.48	5.00	100	0	78.5	56 - 115	88.03	11.5	20	
Di-n-butyl phthalate	84.82	5.00	100	0	84.8	54 - 115	93.9	10.2	20	
Di-n-octyl phthalate	84.32	5.00	100	0	84.3	49 - 115	97.51	14.5	20	
Fluoranthene	84.07	5.00	100	0	84.1	58 - 115	94.2	11.4	20	
Fluorene	79.51	5.00	100	0	79.5	56 - 115	90.11	12.5	20	
Hexachlorobenzene	79.49	5.00	100	0	79.5	54 - 115	91.71	14.3	20	
Hexachlorobutadiene	77.75	5.00	100	0	77.8	51 - 115	86.39	10.5	20	
Hexachlorocyclopentadiene	60.12	5.00	100	0	60.1	48 - 115	66.04	9.38	20	
Hexachloroethane	83.48	5.00	100	0	83.5	54 - 115	95.66	13.6	20	
Indeno(1,2,3-cd)pyrene	81.29	5.00	100	0	81.3	51 - 115	90.92	11.2	20	
Isophorone	82.52	5.00	100	0	82.5	55 - 115	93.22	12.2	20	
Naphthalene	80.71	5.00	100	0	80.7	55 - 115	91.69	12.7	20	
Nitrobenzene	86.52	5.00	100	0	86.5	40 - 124	97.91	12.4	20	
N-Nitrosodimethylamine	78.49	5.00	100	0	78.5	42 - 115	84.83	7.76	20	
N-Nitrosodi-n-propylamine	81.24	5.00	100	0	81.2	55 - 119	94.27	14.8	20	
N-Nitrosodiphenylamine	83.63	5.00	100	0	83.6	52 - 115	95.62	13.4	20	
Pentachlorophenol	83.78	5.00	100	0	83.8	45 - 125	95.43	13	20	
Phenanthrene	82.54	5.00	100	0	82.5	57 - 115	94.37	13.4	20	
Phenol	78.72	5.00	100	0	78.7	38 - 115	91.99	15.5	20	
Pyrene	81.37	5.00	100	0	81.4	54 - 119	97.16	17.7	20	
Surr: 2,4,6-Tribromophenol	*63.42*	*5.00*	*100*	*0*	*63.4*	*42 - 124*	*73.7*	*15*	*20*	
Surr: 2-Fluorobiphenyl	*74.83*	*5.00*	*100*	*0*	*74.8*	*48 - 120*	*87.46*	*15.6*	*20*	
Surr: 2-Fluorophenol	*66.85*	*5.00*	*100*	*0*	*66.9*	*20 - 120*	*79.93*	*17.8*	*20*	
Surr: 4-Terphenyl-d14	*72.33*	*5.00*	*100*	*0*	*72.3*	*51 - 135*	*88.57*	*20.2*	*20*	R
Surr: Nitrobenzene-d5	*79.59*	*5.00*	*100*	*0*	*79.6*	*41 - 120*	*91.82*	*14.3*	*20*	
Surr: Phenol-d6	*69.99*	*5.00*	*100*	*0*	*70.0*	*20 - 120*	*82.72*	*16.7*	*20*	

The following samples were analyzed in this batch: HS23100476-01

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: R448478 (0) **Instrument:** VOA6 **Method:** VOLATILES

MBLK Sample ID: **VBLKW-231008** Units: **ug/L** Analysis Date: **08-Oct-2023 13:55**
Client ID: Run ID: **VOA6_448478** SeqNo: **7593816** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.00								
1,1,2,2-Tetrachloroethane	ND	5.00								
1,1,2-Trichloroethane	ND	5.00								
1,1-Dichloroethane	ND	5.00								
1,1-Dichloroethene	ND	5.00								
1,2-Dichlorobenzene	ND	5.00								
1,2-Dichloroethane	ND	5.00								
1,2-Dichloropropane	ND	5.00								
1,3-Dichlorobenzene	ND	5.00								
1,4-Dichlorobenzene	ND	5.00								
2-Chloroethyl vinyl ether	ND	10.0								
Acrolein	ND	20.0								
Acrylonitrile	ND	10.0								
Benzene	ND	5.00								
Bromodichloromethane	ND	5.00								
Bromoform	ND	5.00								
Bromomethane	ND	5.00								
Carbon tetrachloride	ND	5.00								
Chlorobenzene	ND	5.00								
Chloroethane	ND	5.00								
Chloroform	ND	5.00								
Chloromethane	ND	5.00								
cis-1,3-Dichloropropene	ND	5.00								
Dibromochloromethane	ND	5.00								
Ethylbenzene	ND	5.00								
m,p-Xylene	ND	10.0								
Methylene chloride	ND	10.0								
o-Xylene	ND	5.00								
Tetrachloroethene	ND	5.00								
Toluene	ND	5.00								
trans-1,2-Dichloroethene	ND	5.00								
trans-1,3-Dichloropropene	ND	5.00								
Trichloroethene	ND	5.00								
Trichlorofluoromethane	ND	5.00								

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: R448478 (0) **Instrument:** VOA6 **Method:** VOLATILES

MBLK Sample ID: **VBLKW-231008** Units: **ug/L** Analysis Date: **08-Oct-2023 13:55**
Client ID: Run ID: **VOA6_448478** SeqNo: **7593816** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Vinyl chloride	ND	2.00								
Surr: 1,2-Dichloroethane-d4	*51.19*	*5.00*	*50*	*0*	*102*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*47.84*	*5.00*	*50*	*0*	*95.7*	*82 - 124*				
Surr: Toluene-d8	*50.36*	*5.00*	*50*	*0*	*101*	*82 - 127*				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: R448478 (0) **Instrument:** VOA6 **Method:** VOLATILES

LCS Sample ID: VLCSW-231008 Units: ug/L Analysis Date: 08-Oct-2023 12:53
Client ID: Run ID: VOA6_448478 SeqNo: 7593815 PrepDate: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.49	5.00	20	0	102	70 - 130				
1,1,2,2-Tetrachloroethane	19.83	5.00	20	0	99.1	70 - 120				
1,1,2-Trichloroethane	19.59	5.00	20	0	98.0	77 - 113				
1,1-Dichloroethane	19.74	5.00	20	0	98.7	71 - 122				
1,1-Dichloroethene	20.21	5.00	20	0	101	70 - 130				
1,2-Dichlorobenzene	19.77	5.00	20	0	98.9	77 - 113				
1,2-Dichloroethane	19.43	5.00	20	0	97.2	70 - 124				
1,2-Dichloropropane	20.39	5.00	20	0	102	72 - 119				
1,3-Dichlorobenzene	20.19	5.00	20	0	101	78 - 118				
1,4-Dichlorobenzene	19.76	5.00	20	0	98.8	79 - 113				
2-Chloroethyl vinyl ether	37.3	10.0	40	0	93.3	60 - 135				
Acrolein	39.97	20.0	40	0	99.9	70 - 130				
Acrylonitrile	40.13	10.0	40	0	100	70 - 130				
Benzene	19.71	5.00	20	0	98.5	74 - 120				
Bromodichloromethane	19.49	5.00	20	0	97.5	74 - 122				
Bromoform	20.17	5.00	20	0	101	73 - 128				
Bromomethane	20.69	5.00	20	0	103	70 - 130				
Carbon tetrachloride	20.2	5.00	20	0	101	71 - 125				
Chlorobenzene	19.29	5.00	20	0	96.4	76 - 113				
Chloroethane	20.46	5.00	20	0	102	70 - 130				
Chloroform	19.18	5.00	20	0	95.9	71 - 121				
Chloromethane	21.56	5.00	20	0	108	70 - 129				
cis-1,3-Dichloropropene	19.68	5.00	20	0	98.4	73 - 127				
Dibromochloromethane	19.87	5.00	20	0	99.4	77 - 122				
Ethylbenzene	20.45	5.00	20	0	102	77 - 117				
m,p-Xylene	40.4	10.0	40	0	101	77 - 122				
Methylene chloride	19.91	10.0	20	0	99.5	70 - 127				
o-Xylene	19.49	5.00	20	0	97.4	75 - 119				
Tetrachloroethene	20.93	5.00	20	0	105	76 - 119				
Toluene	19.9	5.00	20	0	99.5	77 - 118				
trans-1,2-Dichloroethene	19.95	5.00	20	0	99.7	72 - 127				
trans-1,3-Dichloropropene	19.48	5.00	20	0	97.4	77 - 119				
Trichloroethene	20.36	5.00	20	0	102	79 - 120				
Trichlorofluoromethane	21.01	5.00	20	0	105	70 - 130				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: R448478 (0) **Instrument:** VOA6 **Method:** VOLATILES

LCS Sample ID: VLCSW-231008 Units: ug/L Analysis Date: 08-Oct-2023 12:53
Client ID: Run ID: VOA6_448478 SeqNo: 7593815 PrepDate: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Vinyl chloride	20.49	2.00	20	0	102	70 - 130				
Surr: 1,2-Dichloroethane-d4	*49.71*	*5.00*	*50*	*0*	*99.4*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*49.96*	*5.00*	*50*	*0*	*99.9*	*83 - 122*				
Surr: Toluene-d8	*49.62*	*5.00*	*50*	*0*	*99.2*	*81 - 119*				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: R448478 (0) **Instrument:** VOA6 **Method:** VOLATILES

MS Sample ID: **HS23100488-04MS** Units: **ug/L** Analysis Date: **08-Oct-2023 14:56**
Client ID: Run ID: **VOA6_448478** SeqNo: **7593818** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.43	5.00	20	0	112	70 - 130				
1,1,2,2-Tetrachloroethane	19.97	5.00	20	0	99.9	70 - 123				
1,1,2-Trichloroethane	19.83	5.00	20	0	99.2	70 - 117				
1,1-Dichloroethane	21.29	5.00	20	0	106	70 - 127				
1,1-Dichloroethene	22.8	5.00	20	0	114	70 - 130				
1,2-Dichlorobenzene	20.25	5.00	20	0	101	70 - 115				
1,2-Dichloroethane	20.23	5.00	20	0	101	70 - 127				
1,2-Dichloropropane	21.11	5.00	20	0	106	70 - 122				
1,3-Dichlorobenzene	20.68	5.00	20	0	103	70 - 119				
1,4-Dichlorobenzene	20.7	5.00	20	0	103	70 - 114				
2-Chloroethyl vinyl ether	ND	10.0	40	0	0	65 - 135				S
Acrolein	55.97	20.0	40	0	140	70 - 130				S
Acrylonitrile	44.18	10.0	40	0	110	70 - 130				
Benzene	21.32	5.00	20	0	107	70 - 127				
Bromodichloromethane	20.3	5.00	20	0	101	70 - 124				
Bromoform	20.74	5.00	20	0	104	70 - 129				
Bromomethane	22.1	5.00	20	0	110	70 - 130				
Carbon tetrachloride	23.27	5.00	20	0	116	70 - 130				
Chlorobenzene	20.97	5.00	20	0	105	70 - 114				
Chloroethane	23.46	5.00	20	0	117	70 - 130				
Chloroform	20	5.00	20	0	100.0	70 - 125				
Chloromethane	23.67	5.00	20	0	118	70 - 130				
cis-1,3-Dichloropropene	20.61	5.00	20	0	103	70 - 125				
Dibromochloromethane	20.3	5.00	20	0	101	70 - 124				
Ethylbenzene	22.05	5.00	20	0	110	70 - 124				
m,p-Xylene	43.61	10.0	40	0	109	70 - 130				
Methylene chloride	20.23	10.0	20	0	101	70 - 128				
o-Xylene	20.9	5.00	20	0	104	70 - 124				
Tetrachloroethene	23.45	5.00	20	0	117	70 - 130				
Toluene	21.25	5.00	20	0	106	70 - 123				
trans-1,2-Dichloroethene	21.77	5.00	20	0	109	70 - 130				
trans-1,3-Dichloropropene	20.29	5.00	20	0	101	70 - 121				
Trichloroethene	21.97	5.00	20	0	110	70 - 129				
Trichlorofluoromethane	24.09	5.00	20	0	120	70 - 130				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: R448478 (0) **Instrument:** VOA6 **Method:** VOLATILES

MS Sample ID: **HS23100488-04MS** Units: **ug/L** Analysis Date: **08-Oct-2023 14:56**
Client ID: Run ID: **VOA6_448478** SeqNo: **7593818** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Vinyl chloride	22.39	2.00	20	0	112	70 - 130				
Surr: 1,2-Dichloroethane-d4	*49.1*	*5.00*	*50*	*0*	*98.2*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*50.4*	*5.00*	*50*	*0*	*101*	*82 - 124*				
Surr: Toluene-d8	*49.64*	*5.00*	*50*	*0*	*99.3*	*82 - 127*				

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: R448478 (0) **Instrument:** VOA6 **Method:** VOLATILES

MSD Sample ID: **HS23100488-04MSD** Units: **ug/L** Analysis Date: **08-Oct-2023 15:17**
Client ID: Run ID: **VOA6_448478** SeqNo: **7593819** PrepDate: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.03	5.00	20	0	110	70 - 130	22.43	1.8	20	
1,1,2,2-Tetrachloroethane	20.18	5.00	20	0	101	70 - 123	19.97	1.04	20	
1,1,2-Trichloroethane	19.89	5.00	20	0	99.5	70 - 117	19.83	0.303	20	
1,1-Dichloroethane	20.71	5.00	20	0	104	70 - 127	21.29	2.73	20	
1,1-Dichloroethene	21.81	5.00	20	0	109	70 - 130	22.8	4.45	20	
1,2-Dichlorobenzene	20.23	5.00	20	0	101	70 - 115	20.25	0.141	20	
1,2-Dichloroethane	19.82	5.00	20	0	99.1	70 - 127	20.23	2.03	20	
1,2-Dichloropropane	20.41	5.00	20	0	102	70 - 122	21.11	3.35	20	
1,3-Dichlorobenzene	20.33	5.00	20	0	102	70 - 119	20.68	1.74	20	
1,4-Dichlorobenzene	20.43	5.00	20	0	102	70 - 114	20.7	1.3	20	
2-Chloroethyl vinyl ether	ND	10.0	40	0	0	65 - 135	0	0	20	S
Acrolein	47.43	20.0	40	0	119	70 - 130	55.97	16.5	20	
Acrylonitrile	43.77	10.0	40	0	109	70 - 130	44.18	0.94	20	
Benzene	20.66	5.00	20	0	103	70 - 127	21.32	3.13	20	
Bromodichloromethane	20.01	5.00	20	0	100	70 - 124	20.3	1.45	20	
Bromoform	20.18	5.00	20	0	101	70 - 129	20.74	2.78	20	
Bromomethane	23.45	5.00	20	0	117	70 - 130	22.1	5.94	20	
Carbon tetrachloride	21.84	5.00	20	0	109	70 - 130	23.27	6.32	20	
Chlorobenzene	20.56	5.00	20	0	103	70 - 114	20.97	1.98	20	
Chloroethane	22.3	5.00	20	0	112	70 - 130	23.46	5.07	20	
Chloroform	19.7	5.00	20	0	98.5	70 - 125	20	1.49	20	
Chloromethane	23.45	5.00	20	0	117	70 - 130	23.67	0.936	20	
cis-1,3-Dichloropropene	19.78	5.00	20	0	98.9	70 - 125	20.61	4.14	20	
Dibromochloromethane	20.63	5.00	20	0	103	70 - 124	20.3	1.61	20	
Ethylbenzene	21.38	5.00	20	0	107	70 - 124	22.05	3.08	20	
m,p-Xylene	42.63	10.0	40	0	107	70 - 130	43.61	2.28	20	
Methylene chloride	20.24	10.0	20	0	101	70 - 128	20.23	0.056	20	
o-Xylene	20.63	5.00	20	0	103	70 - 124	20.9	1.26	20	
Tetrachloroethene	22.36	5.00	20	0	112	70 - 130	23.45	4.74	20	
Toluene	20.65	5.00	20	0	103	70 - 123	21.25	2.88	20	
trans-1,2-Dichloroethene	21.21	5.00	20	0	106	70 - 130	21.77	2.6	20	
trans-1,3-Dichloropropene	20.37	5.00	20	0	102	70 - 121	20.29	0.372	20	
Trichloroethene	21	5.00	20	0	105	70 - 129	21.97	4.53	20	
Trichlorofluoromethane	23.47	5.00	20	0	117	70 - 130	24.09	2.62	20	

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: R448478 (0) **Instrument:** VOA6 **Method:** VOLATILES

MSD Sample ID: **HS23100488-04MSD** Units: **ug/L** Analysis Date: **08-Oct-2023 15:17**
Client ID: Run ID: **VOA6_448478** SeqNo: **7593819** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Vinyl chloride	23.08	2.00	20	0	115	70 - 130	22.39	3.07	20	
Surr: 1,2-Dichloroethane-d4	*49.31*	*5.00*	*50*	*0*	*98.6*	*70 - 126*	*49.1*	*0.43*	*20*	
Surr: 4-Bromofluorobenzene	*50.02*	*5.00*	*50*	*0*	*100*	*82 - 124*	*50.4*	*0.765*	*20*	
Surr: Toluene-d8	*49.81*	*5.00*	*50*	*0*	*99.6*	*82 - 127*	*49.64*	*0.33*	*20*	

The following samples were analyzed in this batch: HS23100476-06

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201729 (0) **Instrument: UV-2450** **Method: CYANIDE BY SM 4500CN E&G-2011**

MBLK Sample ID: **MBLK-201729** Units: **mg/L** Analysis Date: **11-Oct-2023 14:00**
Client ID: Run ID: **UV-2450_448761** SeqNo: **7600716** PrepDate: **10-Oct-2023** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable to Chlorination	ND	0.00500								

LCS Sample ID: **LCS-201729** Units: **mg/L** Analysis Date: **11-Oct-2023 14:00**
Client ID: Run ID: **UV-2450_448761** SeqNo: **7600715** PrepDate: **10-Oct-2023** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable to Chlorination	0.197	0.00500	0.2	0	98.5	85 - 115				

MS Sample ID: **HS23100463-02MS** Units: **mg/L** Analysis Date: **11-Oct-2023 14:00**
Client ID: Run ID: **UV-2450_448761** SeqNo: **7600713** PrepDate: **10-Oct-2023** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable to Chlorination	0.186	0.00500	0.2	0	93.0	80 - 120				

MSD Sample ID: **HS23100463-02MSD** Units: **mg/L** Analysis Date: **11-Oct-2023 14:00**
Client ID: Run ID: **UV-2450_448761** SeqNo: **7600714** PrepDate: **10-Oct-2023** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable to Chlorination	0.197	0.00500	0.2	0	98.5	80 - 120	0.186	5.74	20	

The following samples were analyzed in this batch: HS23100476-04

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201792 (0) **Instrument:** WetChem_HS **Method:** TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011

MBLK Sample ID: **MBLK-201792** Units: **mg/L** Analysis Date: **11-Oct-2023 15:36**
Client ID: Run ID: **WetChem_HS_448769** SeqNo: **7600861** PrepDate: **11-Oct-2023** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	ND	0.50								

LCS Sample ID: **LCS-201792** Units: **mg/L** Analysis Date: **11-Oct-2023 15:36**
Client ID: Run ID: **WetChem_HS_448769** SeqNo: **7600860** PrepDate: **11-Oct-2023** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	18.03	0.50	20	0	90.1	85 - 115				

MS Sample ID: **HS23091835-29MS** Units: **mg/L** Analysis Date: **11-Oct-2023 15:36**
Client ID: Run ID: **WetChem_HS_448769** SeqNo: **7600858** PrepDate: **11-Oct-2023** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	20.56	0.50	20	0.704	99.3	75 - 125				

MSD Sample ID: **HS23091835-29MSD** Units: **mg/L** Analysis Date: **11-Oct-2023 15:36**
Client ID: Run ID: **WetChem_HS_448769** SeqNo: **7600859** PrepDate: **11-Oct-2023** DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	21.44	0.50	20	0.704	104	75 - 125	20.56	4.22	20	

The following samples were analyzed in this batch: HS23100476-03

Client: Envirodyne Laboratories, Inc.
Project: 23J0933
WorkOrder: HS23100476

QC BATCH REPORT

Batch ID: 201800 (0) **Instrument: UV-2450** **Method: PHENOLICS BY E420.1,1978**

MBLK	Sample ID:	MBLK-201800			Units: mg/L		Analysis Date: 11-Oct-2023 16:03			
Client ID:			Run ID: UV-2450_448774		SeqNo: 7601050		PrepDate: 11-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phenolics, Total Recoverable	ND	0.0500								

LCS	Sample ID:	LCS-201800			Units: mg/L		Analysis Date: 11-Oct-2023 16:03			
Client ID:			Run ID: UV-2450_448774		SeqNo: 7601049		PrepDate: 11-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phenolics, Total Recoverable	0.471	0.0500	0.5	0	94.2	84.6 - 104				

MS	Sample ID:	HS23100115-02MS			Units: mg/L		Analysis Date: 11-Oct-2023 16:03			
Client ID:			Run ID: UV-2450_448774		SeqNo: 7601047		PrepDate: 11-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phenolics, Total Recoverable	0.579	0.0500	0.5	0.063	103	80 - 120				

MSD	Sample ID:	HS23100115-02MSD			Units: mg/L		Analysis Date: 11-Oct-2023 16:03			
Client ID:			Run ID: UV-2450_448774		SeqNo: 7601048		PrepDate: 11-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phenolics, Total Recoverable	0.572	0.0500	0.5	0.063	102	80 - 120	0.579	1.22	20	

The following samples were analyzed in this batch: HS23100476-05

2350933

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

E 8415070

TCEQ Certification # T104704265

Page _____ Of _____

Name: Si Environmental
Address: 6420 Reading Rd
City: Rosenberg, TX 77471
Contact: Mike Thornhill

Analysis Request and Chain of Custody Record

Phone: 832-490-1507 Email:

Project No.

Client/Project: BCMUD #31 - Permit Renewal - Lo

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	Effluent	10-5-23 1336	✓		NA	Liquid	NA	pH,DO,Cl2 residual	7.14	6.94	24	1337
	Effluent	104-105-23 800 700		✓	1 gal cubie	Liquid	Ice	CBOD,BOD,TSS,TDS,SO4,Cl,Cond,Cr+6,Cr-T, F, Alk				
	Effluent	〃		✓	500 mL P	Liquid	Ice, H2SO4	NH3-N, TKN-N, T. PO4,NO3-N				
	Effluent	10-5-23 1335	✓		(2) 120 ml P	Liquid	Ice, Sod Thio	Ecoli, Enterococci				
	Effluent	104-105-23 800 700		✓	500 ml P	Liquid	HNO3	Sb,As,Be,Cd,Cr,Cu,Pb,Hg,Ni,Se,Ag,Tl,Zn, Al, Ba				
	Effluent	10-5-23	✓		1 L G	Liquid	Ice, HCl	Oil & Grease				
	Effluent	10-5-23 1335	✓		(4) 40ml VOA	Liquid	Ice	VOC (624)				
	Effluent	10-4-10-5-23 800 700		✓	250 ml P	Liquid	Ice, NaOH	Cyanide, Amenable				
	Effluent	10-5-23 1335	✓		1 L Amber	Liquid	Ice, H2SO4	Phenol				
	Effluent	〃	✓		(3) 1 L Amber	Liquid	Ice	BNA, Pesticides, PCBs				

Samplers: (Signature)

Affiliation

Remarks:

Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time: Seal Intact?
Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time: Seal Intact?
Relinquished by: (Signature)	Date: 10-5-23 Time: 1693	Received by Lab: (Signature)	Date: 10-5-23 Time: 1633 Seal Intact?
FLOW: Meter Reading: Cl2 Residual: 2.11 Mn Correction: Cl2 Corrected	Arrival Temp. 3.7/3.5 (RTH)	Data Results To: 1. Site Representative:	Date: Time: Laboratory No.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 6, 2025

Ms. Shelley Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Road, Suite A
Cypress, Texas 77429

RE: Notice of Preliminary Decision and Draft Permit
Applicant Name: City of Iowa Colony
Facility Name: Brazoria County MUD 31 WWTP
Permit No.: WQ0014546001
Customer Reference Number: CN605616473
Regulated Entity Number: RN104364096
Type of Application: Major Amendment with Renewal

Dear Ms. Young:

The executive director has completed the technical review of the above referenced application, received on December 1, 2023 and has prepared a preliminary decision and draft permit.

You are now required to publish another notice of your proposed activity. To help you meet the requirements associated with this notice, we have included the following items:

- Instructions for Public Notice
- Notice for Newspaper Publication
- Publisher's Affidavits
- Draft Permit
- Executive Director's Preliminary Decision
- Public Notice Verification Form

You must follow all the directions in the enclosed instructions. The most common mistakes are the unauthorized changing of notice, wording, or font. If you fail to follow these instructions, you may be required to republish the notices.

The following requirements are also described in the enclosed instructions. However, due to their importance, they are highlighted here as well.

1. You must publish the enclosed notice within as soon as possible, but no later than 45 days from the date on the cover letter. **You may be required to publish the**

notice in more than one newspaper, including a newspaper published in an alternative language, to satisfy all of the notice requirements.

2. On or before the date you publish notice, you must place the following items in a public place in the county where the facility is or will be located.

   (a) a copy of your permit application, including any subsequent revisions;
   (b) the executive director's preliminary decision as contained in the technical summary and fact sheet; and
   (c) the draft permit, including any subsequent revisions.

   These items must be accessible to the public for review and copying, must be updated to reflect changes to the application, and must remain in place until the commission has taken action on the application or the commission refers issues to the State Office of Administrative Hearings.

3. For each publication, submit proof of publication of the notice that shows the publication date and newspaper name to the Office of the Chief Clerk within **30 calendar days** after notice is published in the newspaper.

4. Return the original enclosed Public Notice Verification and the Publisher's Affidavits to the Office of the Chief Clerk within **30 calendar days** after the notice is published in the newspaper.

If you do not comply with **all** the requirements described in the instructions, further processing of your application may be suspended or the agency may take other actions.

If you have any questions regarding publication requirements, please contact the Office of Legal Services at (512) 239-0600. If you have any questions regarding the content of the notice, please contact the individual in the permitting area assigned to your application.

Sincerely,

Laurie Gharis

Laurie Gharis
Chief Clerk
Office of the Chief Clerk
Texas Commission on Environmental Quality

LG/KK/af

Enclosures

bcc: TCEQ Region 12, Water Program Manager

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 6, 2025

Ms. Shelley Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Road, Suite A
Cypress, Texas 77429

RE: Permit Application
Permit No.: WQ0014546001
City of Iowa Colony
Brazoria County MUD 31 WWTP
Iowa Colony, Texas 77583, Brazoria County
Customer Reference Number: CN605616473
Regulated Entity Number: RN104364096

Dear Ms. Young:

The Texas Commission on Environmental Quality (TCEQ) has made a preliminary decision on the above-referenced permit applications. In accordance with Title 30 Texas Administrative Code § 39.419(b), you are now required to publish Notice of Application and Preliminary Decision. You must provide a copy of the preliminary decision letter with the draft permit at the public place referenced in the public notice.

If you have any questions, please contact the individual in the permitting area assigned to your application, or write to the TCEQ, Office of Water, Water Quality Division, MC-148, Austin, Texas, 78711-3087.

Sincerely,

Matthew Udenenwu
Section Manager, Wastewater Permitting
Office of Water
Texas Commission on Environmental Quality

MU/KK/af

Enclosures

cc: TCEQ Region 12, Water Program Manager

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Deba Dutta, P.E., Team Leader
Municipal Team, Wastewater Permitting Section

Date: 5/12/25

From: Kimberly Kendall, P.E., Municipal Permits Team

JAM III
May 21, 2025

APPLICANT: City of Iowa Colony
PLANT NAME: Brazoria County MUD 31 WWTP
TPDES PERMIT NO: WQ0014546001

EPA ID No: TX0126951

FILE LOCATION: WQ0014546001 Working Folder

Admin Complete Date:	1/19/24	Pretreatment Memo:	2/22/24
Standards Memo:	7/9/24	Assign Date:	3/31/25
Critical Condition Memo:	7/25/24	Tech Complete Date:	5/12/25
Modeling Memo:	4/30/25	RFI Letter Date:	4/16/24
Biomonitoring Memo:	2/14/24	Response Letter Date:	4/23/24

PERMIT TYPE

☒ Public Domestic
☐ Private Domestic

☒ Discharge (TPDES)
☐ Land Application

☒ Major (> 1 MGD)

PERMIT ACTION
Major Amendment with Renewal
PERMIT PACKAGE

YES	NO	
☒	☐	Transmittal letter to applicant
☒	☐	Transmittal letter to EPA
☒	☐	Fact Sheet and ED Preliminary Decision for major TPDES Permit
☒	☐	Permit Draft
☒	☐	Biomonitoring Requirements for Major TPDES Permits
☒	☐	Pretreatment Requirements for POTWs
☐	☒	Authorization to land apply or dispose of Class B Biosolids or sewage sludge on property adjacent to WWTP in draft permit.
☐	☒	Includes appropriate other requirements (including quarterly and annual reporting, soil monitoring, language in notice and fact sheet, attachments.
☒	☐	EPA REVIEW CHECKLIST
☒	☐	FACILITY PROCESS FORM for PARIS
☒	☐	TEXTOX Printout in file
☒	☐	NOTICE for admin complete on or after 9/1/99
☒	☐	CAPTION
☒	☐	Legislative Notice (SB709) required
☒	☐	MAJOR/MINOR DETERMINATION if needed
☐	☒	LOCATED IN THE COASTAL ZONE (if located in coastal zone, include **CMP Threshold Sheet**)
☒	☐	SPELLCHECK: DRAFT PERMIT/TECH SUM/SOB/FACT SHEET/NOTICE/LETTER(S)
☒	☐	**SCHEDULE FOR ERC Part A: All major permits and permits in Edwards Aquifer area are scheduled for ERC**
☐	☒	Located in the Edwards Aquifer area:
☒	☐	**COMPLIANCE HISTORY: CN=0.00 (High) and RN=0.00 (High)**
☐	☒	ENFORCEMENT ORDER(S)
☐	☒	CHANGES TO THE DRAFT PERMIT based on discussion at ERC

COMMENTS: A major amendment to TPDES Permit No. WQ0014546001 to remove the currently permitted Interim I (0.48 MGD) flow phase and to add another interim (1.15 MGD) flow phase. Additionally, a series of detention ponds were added to the discharge route. Other Requirement No. 6 from the existing permit has been updated to correspond with the Interim phases in the draft permit. Transfer of ownership from Brazoria County Municipal Utility District No. 31 to City of Iowa Colony.

The effluent limitations of the existing permit, based on a 30-day average, are 10 mg/l CBOD5, 15 mg/l TSS, 3 mg/l NH3-N, 126 CFU or MPN of E. coli per 100 ml and 4.0 mg/l minimum DO in the Interim I and II phases and 7 mg/l CBOD5, 15 mg/l TSS, 2 mg/l NH3-N and 6.0 mg/l minimum DO in the Final phase. However, the effluent limits in the Interim I and II phases of the draft permit, based on a 30 day average, are 7 mg/l CBOD5, 12 mg/l TSS, 2 mg/l NH3-N, 126 CFU or MPN of E. coli per 100 ml and 4.0 mg/l minimum DO. The effluent limitations in the Final phase of the draft permit, based on a 30 day average, are 5 mg/l (C)BOD5, 5 mg/l TSS, 2 mg/l NH3-N, 126 CFU or MPN of E. coli per 100 ml and 6.0 mg/l minimum DO.

An Interim three year compliance period is being established for CBOD5, TSS, and NH3-N at Outfall 001 according to the requirements of 30 TAC § 307.2(f) and 40 CFR § 122.47. A compliance schedule is included in the draft permit according to the requirements of 40 CFR § 122.47(a)(3). Other Requirement No. 8 was added to the draft permit for the compliance schedule.

Other Requirement No. 4 of the existing permit has been revised with the addition of the new plant site and Attachment B has been added to the draft permit.

Request for Comments on Draft Permit
TCEQ – Water Quality Division
Phone: (512)239-4671
Fax: (512)239-4430
Mailing Address: TCEQ, Water Quality Division, P.O. Box 13087, Austin, TX 78711-3087

TO: Region: **12**

Submitted by: **Kimberly Kendall, P.E.** E-Mail ID: **kimberly.kendall@tceq.texas.gov**

Phone: **(512) 239-4540**

Date Request Submitted:

Comments Deadline: Within 7 days

Date Application Received by TCEQ in Austin: **December 1, 2023**

REGIONAL OFFICES: The entity below has submitted an application for the project referenced below in accordance with regulations of the TCEQ. Please return comments ASAP, but no later than the comments deadline, which is 10 days from the submittal date. Permit disposition will proceed after comments are received or after the comments deadline has passed. If no comments are received within this time frame, we will assume you have no comments or objections to the project as proposed. Please return a complete copy of the form (both sides) with your comments.

PROJECT TYPE: **Major Amendment with Renewal** TEAM ASSIGNED: **MUNICIPAL**

APPLICATION TYPE: ☒ **TPDES** ☐ **TLAP** REGULATED ENTITY NO.: **RN104364096**

PERMIT NO.: **WQ0014546001** CUSTOMER REFERENCE NO.: **CN605616473**

COMPANY NAME: **City of Iowa Colony**

PLANT NAME: **Brazoria County MUD 31 WWTP**

ADDRESS: **3144 Meridiana Parkway, Iowa Colony, Texas 77583**

SEGMENT: **1108** COUNTY: **Brazoria**

TECHNICAL CONTACT: **Ms. Shelley Young, P.E.** PHONE: **281-373-0500**

PERMIT CLASSIFICATION: **MAJOR**

COMPLIANCE RATING: **CN=0.00 (High) and RN=0.00 (High)**

SUMMARY OF APPLICATION REQUEST: A major amendment to TPDES Permit No. WQ0014546001 to remove the currently permitted Interim I (0.48 MGD) flow phase and to add another interim (1.15 MGD) flow phase. Additionally, a series of detention ponds were added to the discharge route.

PERMIT WRITER COMMENTS: Other Requirement No. 6 from the existing permit has been updated to correspond with the Interim phases in the draft permit. Transfer of ownership from Brazoria County Municipal Utility District No. 31 to City of Iowa Colony. The effluent limitations of the existing permit, based on a 30-day average, are 10 mg/l $CBOD_5$, 15 mg/l TSS, 3 mg/l NH_3-N, 126 CFU or MPN of E. coli per 100 ml and 4.0 mg/l minimum DO in the Interim I and II phases and 7 mg/l $CBOD_5$, 15 mg/l TSS, 2 mg/l NH_3-N and 6.0 mg/l minimum DO in the Final phase. However, the effluent limits in the Interim I and II phases of the draft permit, based on a 30 day average, are 7 mg/l $CBOD_5$, 12 mg/l TSS, 2 mg/l NH_3-N, 126 CFU or MPN of E. coli per 100 ml and 4.0 mg/l minimum DO. The effluent limitations in the Final phase of the draft permit, based on a 30 day average, are 5 mg/l (C)BOD_5, 5 mg/l TSS, 2 mg/l NH_3-N, 126 CFU or MPN of E. coli per 100 ml and 6.0 mg/l minimum DO. An Interim three year compliance period is being established for $CBOD_5$, TSS, and NH_3-N at Outfall 001 according to the requirements of 30 TAC § 307.2(f) and 40 CFR § 122.47. A compliance schedule is included in the draft permit according to the requirements of 40 CFR § 122.47(a)(3). Other Requirement No. 8 was added to the draft permit for the compliance schedule. Other Requirement No. 4 of the existing permit has been revised with the addition of the new plant site and Attachment B has been added to the draft permit.

RESPONSE TO REQUEST FOR COMMENTS ON DRAFT PERMIT

TO: **Kimberly Kendall, P.E.**

FROM: Region: **12**

Copy of Application Received by your Office: ☐ YES ☐ NO Date Received: _____

COMPANY NAME: City of Iowa Colony

PERMIT NO.: WQ0014546001

REGULATED ENTITY NO: RN104364096

Investigator's/Compliance Officer's Name (Please Print): _____

Phone: _____

Comments Deadline (from pg. 1):

Date of Last Site Visit: _____

COMMENTS ON CONDITIONS: (Please mark up the draft special conditions with your comments. Please address applicability and enforceability. List any additional conditions below):

Compliance Determination Conditions: _____

_____

_____

_____

_____

Operational Limitations: _____

_____

_____

_____

_____

General Comments: _____

_____

_____

_____

_____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Ms. Shelley Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Road, Suite A
Cypress, Texas 77429

Re: City of Iowa Colony - TPDES Permit No. WQ0014546001, EPA ID No. TX0126951 (CN605616473; RN104364096)

Dear Ms. Young:

Enclosed for your review and comment is a copy of a draft permit, Fact Sheet and Executive Director's Preliminary Decision for the above-referenced operation. This draft permit is subject to further staff review and modification; however, we believe it generally includes the terms and conditions that are appropriate to your discharge. **Please read the entire draft carefully as there may be changes from the existing permit and note the following:**

1. The draft permit will be issued to expire **five years from the date of issuance.**

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

3. 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.

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

5. More stringent effluent limitations are required for all the phases in the draft permit based on the recommendations from the WQ Modeler.

6. Other Requirement No. 4 of the existing permit has been revised with the addition of the new plant site and Attachment B has been added to the draft permit.

7. Other Requirement No. 6 from the existing permit has been updated to correspond with the Interim phases in the draft permit.

8. A compliance schedule is included in the draft permit according to the requirements of 40 CFR § 122.47(a)(3). Other Requirement No. 8 was added to the draft permit for the compliance schedule.

9. This application was declared administratively complete on January 19, 2024. Please note, a translated copy of the NAPD in the alternative language must be submitted with your comments on the draft permit. If a translated NAPD is not received, the draft permit cannot be filed with the Office of the Chief Clerk. For notice templates in Spanish, please visit: https://www.tceq.texas.gov/permitting/wastewater/review/napd/wqspanish_napd.html.

Also enclosed for your review and comment is a copy of the draft second notice, the Notice of Application and Preliminary Decision (NAPD), that was prepared for your application. Please review this notice and provide comments if there are any inaccuracies or any information that is not consistent with your application. Please do not publish the notice at this time; after the draft permit is filed with the Office of the Chief Clerk, you will receive instructions for publishing this notice in a newspaper from the Office of the Chief Clerk. Please note that these instructions will not be mailed if the Office of the Chief Clerk has not received the requested proof that the first notice (Notice of Receipt and Intent to Obtain a Permit) has been published. This could cause delays in the processing of your application and the final issuance of the draft permit. When the NAPD notice is received, please publish promptly and submit proof of publication (affidavit and tearsheet) to the Office of the Chief Clerk. Failure to publish notice and submit proof of publication in a timely manner may result in returning of the application and loss of authorization to operate.

It is your responsibility to submit your comments on the draft permit prior to the deadline that is indicated in the email. Comments can be sent to kimberly.kendall@tceq.texas.gov in place of or in addition to a hard copy.

If you have any comments or questions, please contact me at (512) 239-4540, or if by correspondence, include MC 148 in the letterhead address following my name.

Sincerely,

Kimberly Kendall

Kimberly Kendall, P.E., Permit Coordinator
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

KK/SW

Enclosures

AGENDA CAPTION FOR PERMIT NO. WQ0014546001

City of Iowa Colony has applied for a major amendment to Texas Pollutant Discharge Elimination System Permit No. WQ0014546001 to revise the discharge route by adding a series of detention ponds to the discharge route. The current permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2,000,000 gallons per day. The facility is located at 2401 County Road 57, in Brazoria County, Texas 77583.

MUNICIPAL EPA REVIEW CHECKLIST

Permittee Name: City of Iowa Colony
Permit Number: TPDES Permit No. WQ0014546001, EPA ID No. TX0126951

NOTE: Minor amendments, endorsements, and minor modifications (except for pretreatment) are exempt from EPA review.

For renewal, amendment or new permits check any items that apply to determine if the permit is subject to EPA review:

PLEASE CHECK ☒ ALL THE APPLICABLE BELOW:

Draft permit authorizes:

YES	NO	
☒	☐	Discharge from a designated major facility
☐	☒	Discharge from a POTW with an approved pretreatment program
☒	☐	Discharge from a facility with a daily/annual average flow >1.0 MGD
☐	☒	Discharge to a critical concern species watershed that requires EPA review
☐	☒	Discharge that includes a request for a water quality variance
☐	☒	Storm water discharge to high priority species watershed
☐	☒	First time implementation of a final TMDL for an existing facility
☐	☒	Prior to a final TMDL, new permit, or expanded discharge to an impaired listed 303(d) listed segment, and that has the potential to discharge any pollutant that is causing or contributing to the impairment.
☐	☒	After a final TMDL, new permit or expanded discharge to an impaired listed 303(d) listed segment where the TMDL does not allocate the loadings described in the draft permit
☐	☒	After a final TMDL, a permit with effluent limits that allow loadings in excess of those prescribed by the TMDL for the segment
☐	☒	After a final TMDL, a permit that allows **more** than a 3-year schedule for an existing facility to be in compliance with final effluent limits based on the TMDL allocation (new facilities have to be compliant upon discharge)
☐	☒	Discharge directly to territorial seas of the United States (from the coastline to 3 miles out but not including Bays and Estuaries)
☐	☒	Discharge or sewage sludge management that may affect another state or Mexico. For sewage sludge management, may affect means, accepts sewage sludge from another state or Mexico. For discharge, it means a discharge within 3 miles of a boundary with another state or Mexico.
☐	☒	Discharge from a Class I sludge management facility. (A Class I facility is a POTW or combination of POTWs operated by the same authority with a design flow of >5 MGD and that have IUs and are required to have an approved pretreatment program or are subject to pretreatment standards, **OR** any other treatment works treating domestic sewage sludge classified as a Class I sludge management facility by the Regional Administrator in conjunction with the TCEQ.)

If any column is marked "YES", EPA must receive a copy of the full permit package.
If all columns are marked "NO", EPA does not need to review the draft permit.

Permit Writer: Kimberly Kendall, P.E.

Date: May 9, 2025

MUNICIPAL MAJOR/MINOR DETERMINATION

Permittee Name: City of Iowa Colony

Permit Number: TPDES Permit No. WQ0014546001, EPA ID No. TX0126951

Type of Application: Major Amendment with Renewal

Check Appropriate Classification:

☒ Major
☐ Minor

Permitted Flow: 2.0 MGD in the Final phase

Permit Writer: Kimberly Kendall, P.E.

Date: May 9, 2025

PARIS FACILITY EXTENSION - TREATMENT PROCESS
TPDES PERMIT NO. WQ0014546001

PERMITTEE: City of Iowa Colony
PLANT NAME Brazoria County MUD 31 WWTP
Application Type: Major Amendment ☒ **Interim I** ☒ **Interim II** ☐ **Interim III** ☒ **Final**

WASTEWATER TREATMENT

Primary Treatment
02 Preliminary treatment – bar screen
03 Preliminary treatment – grit removal
04 Preliminary treatment -
05 Preliminary treatment - others
B1 Imhoff tank
06 Scum removal
07 Flow equalization basins
08 Preaeration
09 Primary sedimentation
D2 Septic tank
A5 Facultative lagoon

Secondary Treatment
10Trickling filter – rock media
11 Trickling filter – plastic media
12 Trickling filter – redwood slats
13 Trickling filter – other media
14 Activate sludge – conventional
15 Activate sludge – complete mix
16 Activate sludge – contact
17 Activated sludge – extended aeration
18 Pure oxygen activate sludge
19 Bio-Disc (rotating biological filter)
20 Oxidation ditch
21 Clarification using tube settlers
22 Secondary clarification
B6 Constructed wetlands
E5 Natural treatment
E6 Overland flow

Advanced Treatment - Biological
23 Biological nitrification – separate
24 Biological nitrification - combined
25 Biological denitrification
26 Post aeration (reaeration)

Advanced Treatment –
27 Microstrainers – primary
28 Microstrainers – secondary
D1 Dunbar Beds
29 Sand filters
30 Mix media filters (sand and coal)
31 Other filtrations
B2 Bubble diffuser (compressor)
32 Activated carbon – granular
B3 Mechanical surface aerator
33 Activated carbon-powered
34 Two stage lime treatment of raw
35 Two stage tertiary lime treatment
36 Single stage lime treatment of raw
37 Single state tertiary lime treatment
38 Recarbonation
39 Neutralization
40 Alum addition to primary
41 Alum addition to secondary
42 Alum addition to separate state
43 Ferri-chloride addition to primary
44 Ferri-chloride addition to secondary
45 Ferri-chloride addition to separate
46 Other chemical additions
47 Ion exchange
48 Breakpoint chlorination
49 Ammonia stripping
50 Dechlorination

Disinfection
51 Chlorination for disinfection
52 Ozonation for disinfection
53 Other disinfection
D3 Ultra violet light

Land Treatment
54 Land treatment of primary effluent
55 Land treatment of secondary effluent
56 Land treatment of intermediate (less than secondary)

Other Treatment
57 Stabilization ponds
58 Aerated lagoons
59 Outfall pumping
60 Outfall diffuser
61 Effluent to other plants
62 Effluent outfall
63 Other treatment
64 Evapo-transpiration beds
64 Recalcination

Disposal Method
A7 Irrigation – public access
A8 Irrigation – agricultural
B4 Evapo-transpiration beds
B6 Constructed wetlands
C1 Irrigation – pastureland
D4 Pressure dosing system
D5 Percolation system
D8 Other reuse method
E1 Evaporation/plays
E2 Discharge only
E3 Discharge and (use other #)
E4 Injection well(s)

SLUDGE TREATMENT
65 Aerobic digestion – air
66 Aerobic digestion – oxygen
67 Composting
68 Anaerobic digestion
69 Sludge lagoons
70 Heat treatment – dryer
71 Chlorine oxidation of sludge
72 Lime stabilization
73 Wet air oxidation
74 Dewatering – sludge drying beds, sand
F2 Dewatering – sludge drying bed
75 Dewatering – mechanical-vacuum
76 Dewatering – mechanical – centrifuge
77 Dewatering – mechanical – filter press
78 Dewatering – others
79 Gravity thickening
80 Air flotation thickening
D6 Sludge holding tank

Incineration
81 Incineration – multiple hearth
82 Incineration – fluidized beds
83 Incineration – rotary kiln
84 Incineration –others
85 Pyrolysis
86 Co-incineration with solid waste
87 Co-pyrolysis with solid waste
88 Co-incineration - others

SLUDGE DISPOSAL
89 Co-disposal landfill
D7 Sludge – only monofill
90 Land application (permitted)
91 Commercial land application
92 Trenching
B5 Transport to another WWTP
F3 Transport to Regional compost facility
94 Other sludge handling
95 Digest gas utilization facilities
E7 Commercial land application
F4 Dedicated land disposal
F5 Marketing and distribution
F6 Marketing and distribution non-

MISCELLANEOUS
01 Pumping raw wastewater
96 Control/lab/maintenance buildings
97 Fully automated using digital control -
98 Fully automated using analog control
99 Semi-automated plant
A1 Manually operated and controlled
A2 Package plant
A3 Semi-package plant
A4 Custom built plant
A7 Irrigation – public access
A8 Irrigation – agriculture
A9 Effluent storage ponds (irrigation)
C1 Irrigation – pastureland
D8 Other reuse method
D9 Emergency holding ponds
E1 Evaporation or playa
E8 Monitoring wells
E9 Biomonitoring
F7 Stormwater (SSO)
F8 Unconventional

PERMIT Kimberly Kendall, P.E.
Municipal Permits Team
Wastewater Permitting Section, Water Quality Division
Date: May 9, 2025

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Josi Robertson, Water Quality Assessment Team
Water Quality Assessment Section

Date: July 25, 2024

Subject: City of Iowa Colony
Wastewater Permit No. WQ0014546001
Critical Conditions Recommendation Memo

This memo supersedes the one dated February 5, 2024, due to the change in discharge route.

The following information applies to **Outfall 001**.

The TexTox menu number is **8** for an intermittent water body within 3 miles of a lake or reservoir.

This discharge is to a ditch within three miles of a detention pond.

Segment No.	1108
Effluent Flow for Aquatic Life (MGD)	2.0 (Permitted)
% Effluent for Acute Aquatic Life (Intermittent)	100
% Effluent for Chronic Aquatic Life (Lake/Reservoir)	40
% Effluent for Acute Aquatic Life (Lake/Reservoir)	100
Effluent Flow for Human Health (MGD)	2.0 (Permitted)
% Effluent for Human Health (Lake/Reservoir)	20

Human Health criteria apply for Incidental Fish Only

The immediate receiving water body is a ditch, which is intermittent. Chronic aquatic life criteria do not apply. Human health criteria do not apply.

There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

The width of the detention pond at the point the discharge enters it is approximately 76 feet.

Also check Menu 3.

This discharge is to West Fork Chocolate Bayou.

Segment No.	1108
Effluent Flow for Human Health (MGD)	2.0 (Permitted)
Harmonic Mean Flow (cfs)	1.49

Human Health criteria apply for Fish Only.

OUTFALL LOCATION [1]

Outfall Number	Latitude	Longitude
001	29.455708 N	95.438628 W

[1] Latitude and Longitude values are approximations of the location for administrative purposes.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Orlando M. Vasquez, Jr., P.E.
Water Quality Assessment Team
Water Quality Assessment Section

Date: 04/30/2025

Subject: City of Iowa
Permit Amendment (WQ0014546001, TX0126951)
Discharge to a tributary of Chocolate Bayou Above Tidal (Segment No. 1108) of the San Jacinto-Brazos Coastal Basin

This memo supersedes the previous memo dated February 16, 2024.

The referenced applicant is proposing to amend and renew its permit authorizing the discharge of treated domestic wastewater into the watershed of the Chocolate Bayou Above Tidal (Segment No. 1108). This amendment is to remove the currently permitted Interim I (0.48 MGD) flow phase and to add another interim (1.15 MGD) flow phase. Additionally, a series of detention ponds were added to the discharge route. A dissolved oxygen analysis of the referenced discharge was conducted using a Continuously Stirred Tank Reactor (CSTR) model in combination with an uncalibrated QUAL-TX model for the proposed 0.90 MGD Interim I flow phase, 1.15 MGD Interim II flow phase, and 2.0 MGD Final flow phase. The facility is located in Brazoria County.

Based on model results, effluent limits of **7 mg/L $CBOD_5$, 2 mg/L NH_3-N, and 4.0 mg/L DO for the 0.90 MGD Interim I phase, 7 mg/L $CBOD_5$, 2 mg/L NH_3-N, and 6.0 mg/L DO for the 1.15 MGD Interim II phase, and 5 mg/L $CBOD_5$, 2 mg/L NH_3-N, and 6.0 mg/L DO for the 2.0 MGD final phase** are predicted to be **necessary** to maintain dissolved oxygen levels above the criteria stipulated by the Standards Implementation Team for the detention ponds (3.0 mg/L), for the BCDD 5 ditch 101-05-02-01 (2.0 mg/L), an unnamed tributary (2.0 mg/L), and West Fork Chocolate Bayou (5.0 mg/L).

Coefficients and kinetics used in the models are a combination of standardized default and estimated values. The results of this evaluation can be reexamined upon receipt of information that conflicts with the assumptions employed in this analysis.

Segment 1108 is currently listed on the State's inventory of impaired and threatened waters (the **2022** Clean Water Act Section 303(d) list). The listing is for bacteria in water from the salt water barrier (immediately downstream of the Chocolate Bayou Rice Canal) 5.2 km (3.2 mi) downstream of SH 35 in Brazoria County to SH 6 in Brazoria County (AU 1108_01).

The existing effluent limits have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The existing limits are consistent with the approved WQMP.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: M. A. Wallace, PhD, Standards Implementation Team *MAW*
Water Quality Assessment Section
Water Quality Division

Thru: Peter Schaefer, Standards Implementation Team Leader
Water Quality Assessment Section
Water Quality Division

Date: 7/9/2024

Subject: City of Iowa Colony; Permit no. 14546-001
Amendment; Application received: 12/1/2023

This memo supersedes my memo dated 1/29/24 for applicant name change and updated discharge route description per applicant request.

The **currently permitted** discharge route for the above referenced permit is to Brazoria County Drainage District (BCDD) 5 ditch, thence to an unnamed tributary, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment 1108 of the San Jacinto-Brazos Coastal Basin.

The **proposed** discharge route for the above referenced permit is to a ditch, thence to a series of detention ponds, thence to Brazoria County Drainage District (BCDD) 5 Ditch No. 101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment 1108 of the San Jacinto-Brazos Coastal Basin.

The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 1108 are primary contact recreation, high aquatic life use, and 5.0 mg/L dissolved oxygen.

Since the discharge is directly to an unclassified water body, the permit action was reviewed in accordance with §307.4(h) and (l) of the 2022 Texas Surface Water Quality Standards and the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010). Based on available information, a preliminary determination of the aquatic life uses in the area of the discharge impact has been performed and the corresponding dissolved oxygen criterion assigned.

ditch; minimal aquatic life use; 2.0 mg/L dissolved oxygen.
Detention ponds; limited aquatic life use; 3.0 mg/L dissolved oxygen.
BCDD 5 Ditch No. 101-10-00; minimal aquatic life use; 2.0 mg/L dissolved oxygen.
West Fork Chocolate Bayou; high aquatic life use; 5.0 mg/L dissolved oxygen.

Total dissolved solids (TDS), chloride and sulfate screening was not conducted as the facility is not constructed. Please submit effluent results within 90 days of initial discharge.

In accordance with §307.5 and the TCEQ implementation procedures (June 2010) for the Texas Surface Water Quality Standards, an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative

criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in West Fork Chocolate Bayou, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

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 occur in 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.

Mimi Wallace

From: Shelley Young <syoung@waterengineers.com>
Sent: Monday, June 17, 2024 5:05 PM
To: Mimi Wallace
Subject: RE: Discharge route_14546001_BC_MUD_31
Attachments: 2024.04.12 WWTP Effluent Flow Path with Pond depths.pdf

Hi Mimi,

The discharge route is from the plant site into on on-site ditch for approximately 350' before entering a series of BCMUD 31 detention ponds for approximately 4,240', thence to BCDD5 Ditch 101-10-00 for approximately 1,625' before entering West Fork Chocolate Bayou.

The pond sizes and depths can be found on the attached drawing.

I hope this helps. Please let me know if you need anything additional.

Regards,
Shelley

Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Mimi Wallace <mimi.wallace@tceq.texas.gov>
Sent: Monday, June 17, 2024 12:43 PM
To: Shelley Young <syoung@waterengineers.com>
Subject: RE: Discharge route_14546001_BC_MUD_31

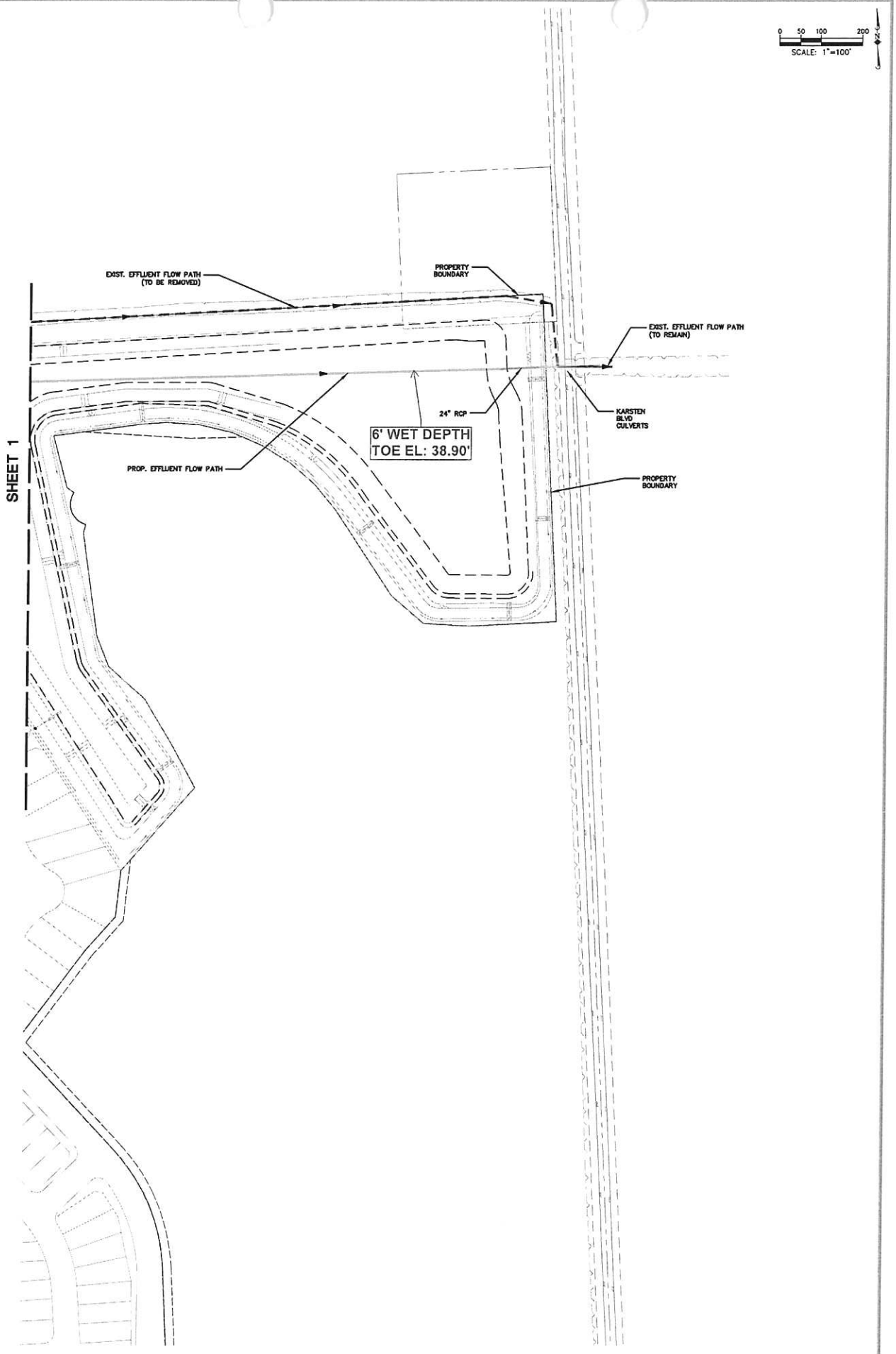
Thanks, Shelley – appreciate you following up with the DE. Let's try to resolve this week or early next if possible.

Mimi

From: Shelley Young <syoung@waterengineers.com>
Sent: Thursday, June 6, 2024 5:26 PM
To: Mimi Wallace <mimi.wallace@tceq.texas.gov>
Subject: RE: Discharge route_14546001_BC_MUD_31

Hi Mimi,

The district engineer has given me some conflicting information on two different maps. Let me get this resolved and then I will send you a reply to your questions.

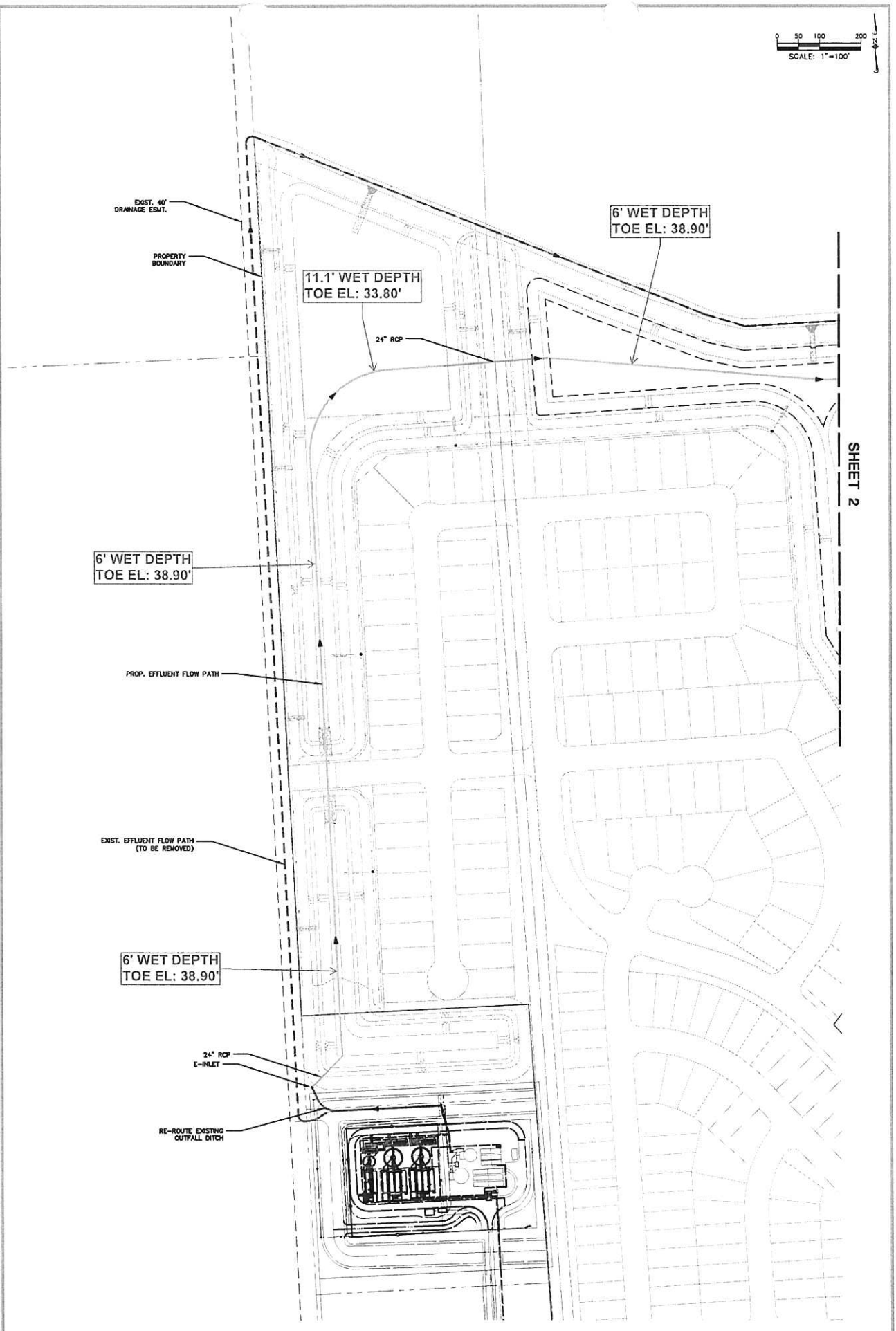


WWTP EFFLUENT FLOW PATH (PAGE 2 OF 2)

BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 31

APRIL 12, 2024

ELEVATION land solutions



WWTP EFFLUENT FLOW PATH (PAGE 1 OF 2)

BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 31

APRIL 12, 2024

ELEVATION land solutions

Mimi Wallace

From: Shelley Young <syoung@waterengineers.com>
Sent: Wednesday, May 1, 2024 2:18 PM
To: Mimi Wallace
Subject: RE: Discharge route_14546001_BC_MUD_31
Attachments: DD5 Map wBC MUD 31 WWTP Site.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Mimi,

Below is from the District Engineer. If we need to discuss further, please let me know. You said you read through the emails...did you get to see the map that was sent with the emails?

Shelley,

The revised route will be through a ditch onsite within the plant boundary, to the BC MUD 31 detention pond, then to BC DD5 Ditch No. 101-10-00 before crossing under County Road 383 (aka Karsten Boulevard).

The previous route did discharge to a ditch with the number below. That ditch is being filled in and taken out of service.

Please see attached map.

Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Mimi Wallace <mimi.wallace@tceq.texas.gov>
Sent: Thursday, April 25, 2024 4:15 PM
To: Shelley Young <syoung@waterengineers.com>
Subject: Discharge route_14546001_BC_MUD_31

Shelley,
I've read through the emails but remain unclear about the proposed discharge route. Please see below from my draft worksheet:

Existing: BCDD 5 Ditch #101-05-02-01 → ~0.4 mi. → unnamed tributary → ~0.8 mi. → West Fork Chocolate Bayou → ~7.0 mi. → 1108

Proposed: series of detention ponds (insert total surface acres here) → BCDD 5 Ditch #101-05-02-01 (?) → ~0.4 mi. → unnamed tributary (?) → ~0.8 mi. → West Fork Chocolate Bayou → ~7.0 mi. → 1108

Will the BCDD ditch be included and will it have the same name?

Mimi Wallace

BRAZORIA COUNTY
DRAINAGE DISTRICT 5

DITCH & DRAINAGE STRUCTURE INVENTORY

COMMISSIONERS:

ANDERSON (ANDY) HOGAN (CHAIRMAN)
N. LEE WALDEN, P.E.
MARK ROLLER

ATTORNEY:

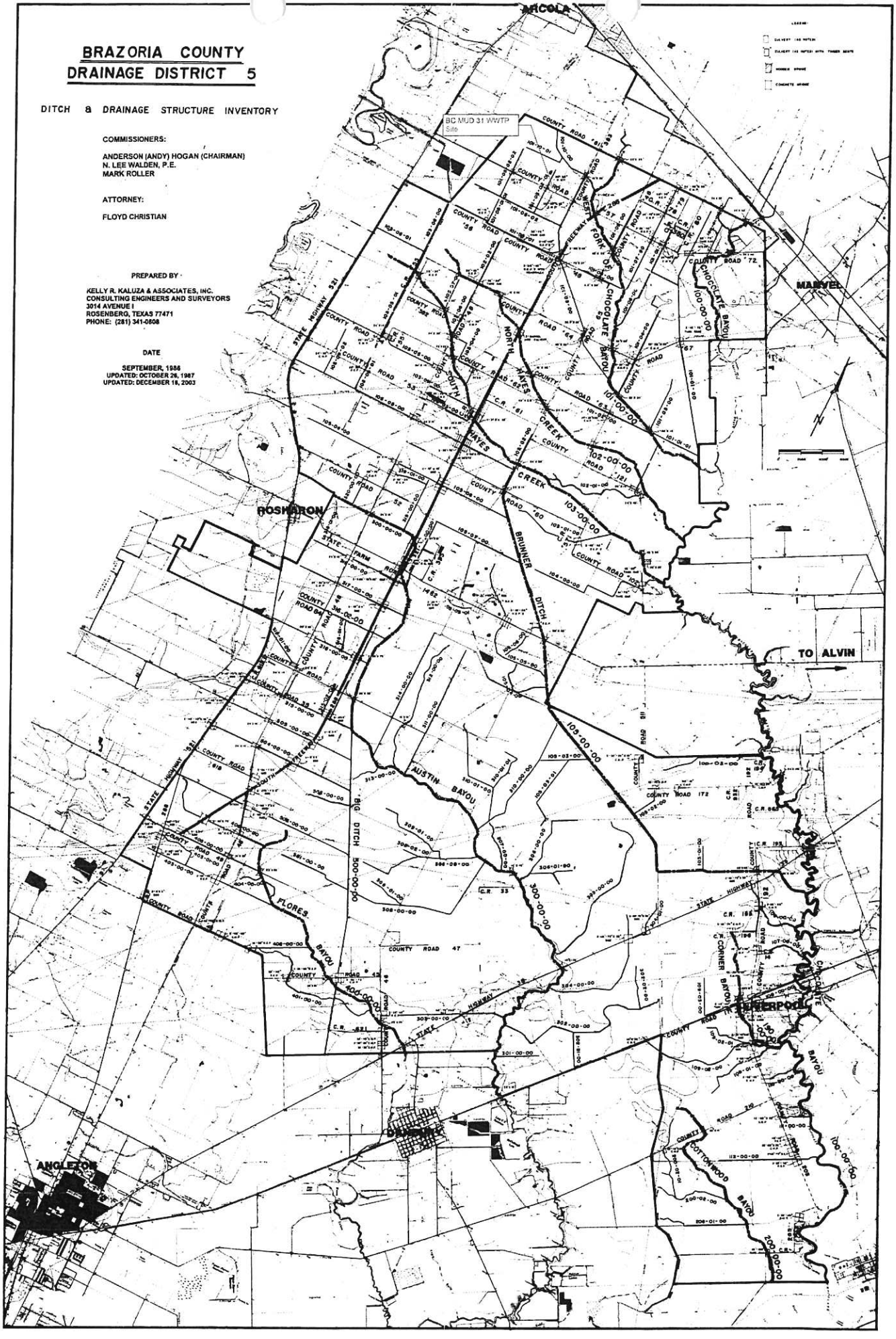
FLOYD CHRISTIAN

PREPARED BY

KELLY R. KALUZA & ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
3014 AVENUE I
ROSENBERG, TEXAS 77471
PHONE: (281) 341-0808

DATE

SEPTEMBER, 1986
UPDATED: OCTOBER 26, 1987
UPDATED: DECEMBER 18, 2003



Leah Whallon

From: Leah Whallon
Sent: Wednesday, May 8, 2024 2:44 PM
To: Mimi Wallace; Peter Schaefer; Miguel Mercado
Cc: Jose Alfonso Martinez
Subject: RE: 14546001_BC MUD 31_NOD
Attachments: WQ0014546001 Landowner List-updated.docx; WQ0014546001 Labels-updated.docx; WQ0014546001 Transfer Order.pdf

Good Afternoon,

The transfer of ownership to City of Iowa Colony has been completed and the file is updated.

The updated landowner list and labels are also attached and are ready to accompany the combined notice to OCC.

Please let me know if you need anything else.

Thanks,
Leah

From: Mimi Wallace <mimi.wallace@tceq.texas.gov>
Sent: Thursday, April 25, 2024 3:35 PM
To: Peter Schaefer <peter.schaefer@tceq.texas.gov>; Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Cc: Jose Alfonso Martinez <Jose.Martinez@tceq.texas.gov>; Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: RE: 14546001_BC MUD 31_NOD

Transfer of ownership.

From: Peter Schaefer <peter.schaefer@tceq.texas.gov>
Sent: Thursday, April 25, 2024 3:27 PM
To: Mimi Wallace <mimi.wallace@tceq.texas.gov>; Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Cc: Jose Alfonso Martinez <Jose.Martinez@tceq.texas.gov>; Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: RE: 14546001_BC MUD 31_NOD

I'm not sure what a transfer application is, but I think it's fair game to issue an NOD for any item that is missing but required for us to complete our standards review. If it's just a change in name, we would still need that name to ensure the correct name is referenced in our memo.

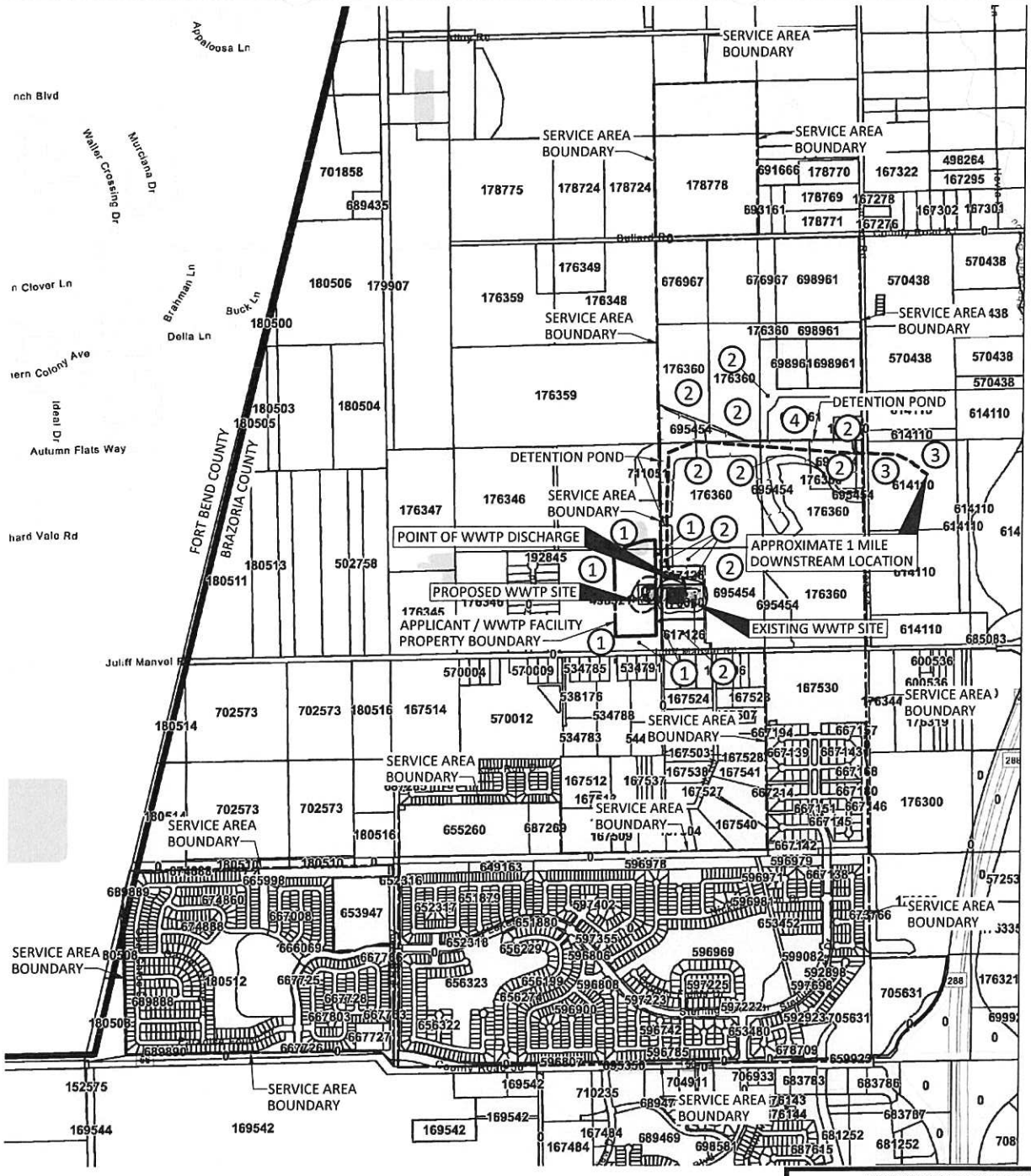
Peter Schaefer, Team Leader
Standards Implementation Team (MC 150)
Water Quality Assessment Section
Water Quality Division, TCEQ
email: *peter.schaefer@tceq.texas.gov*
phone: 512-239-4372
fax: 512-239-4420

From: Mimi Wallace <mimi.wallace@tceq.texas.gov>
Sent: Thursday, April 25, 2024 2:55 PM
To: Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Cc: Jose Alfonso Martinez <Jose.Martinez@tceq.texas.gov>; Peter Schaefer <peter.schaefer@tceq.texas.gov>; Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: 14546001_BC MUD 31_NOD

Good afternoon All,
I contacted Leah to take the file from her office and she informed me that in addition to the discharge route change, a transfer of ownership is pending. The new name will be City of Iowa Colony. Could we please extend Miguel's NOD to include that item? The PARIS response due date is 4/16/24 but not sure if the NOD remains outstanding.

Meanwhile, I may go ahead and re-route it through Assessment section with a note to return to Leah. Does that sound fine with everyone?

Mimi



LEGEND

① DENOTES LANDOWNER
SEE ATTACHED TABLE FOR LANDOWNERS

PROPOSED SERVICE AREA BOUNDARY

N

0 1000 2000

SCALE:1" = 1000'-0" (24"x36")
1" = 2000'-0" (11"x17" 8.5"x11")

WATERENGINEERS,INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0014546001

DOWNSTREAM & ADJACENT LANDOWNERS MAP

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	**ADMIN.04**
SCALE: AS NOTED	
DATE: 4/22/2024	
JOB No.: 6040-23200	

\\server\wei cad\current jobs\6040-23200 brazoria county mud no. 31 major amendment '23\wei current\admin.04.dwg

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Mr. Dinh Ho, P.E.
City Engineer
City of Iowa Colony
3144 Meridiana Parkway
Iowa Colony, Texas 77583

Re: Transfer of Permit No. WQ0014546001 (EPA I.D. No. TX0126951);
Brazoria County MUD 31 WWTP (RN104364096)
Issued to City of Iowa Colony (CN605616473)

Dear Mr. Ho:

Enclosed is a copy of an order transferring the above referenced permit which was previously issued by the Commission to "Brazoria County Municipal Utility District No. 31". This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. This document is part of the affected permit and should be incorporated therein.

Should you need additional information, please contact Leah Whallon of the Application Review and Processing Team, Water Quality Support Section, at (512) 239-0084.

Sincerely,

J Bowers

Jennifer E. Bowers, Section Manager
Application Review and Processing Team (MC-148)
Water Quality Division

JEB/lcw

Enclosure

bcc: TCEQ Region 12, Water Program Manager

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TRANSFER OF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PERMIT NO. WQ0014546001

EPA I.D. No. TX0126951

FROM: Brazoria County Municipal Utility District No. 31

TO: City of Iowa Colony

Ownership of the facilities covered by the above-referenced permit issued September 10, 2019, has changed. That part of the signature page pertaining to the name and mailing address of the permit holder is hereby changed so that the same shall hereinafter be and read as follows:

"City of Iowa Colony
3144 Meridiana Parkway
Iowa Colony, Texas 77583"

The transferee is financially responsible for the proper maintenance and operation of the facility so as to comply with the terms and conditions of the permit. The failure to operate the facility in accordance with the terms and conditions of the permit may be good cause for revocation of the permit.

This transfer is in accordance with 30 Texas Administrative Code Section 305.64.

This order is part of the permit and should be attached there to.

Issued Date: May 8, 2024

_____

For The Commission

CHECK LIST FOR APPLICATION TO TRANSFER A WATER QUALITY PERMIT/REGISTRATION	
Permit No. WQ0014546001	Review Date:
TX: TX0126951	Region: 12
CN: CN602782195	RN: RN104364096

☑ Core Data Form received

Annual Fees

☑ Verified payment of annual fees and found not delinquent.

Outstanding fees _____ Account Number_____

Application fees:

☑ Verify that the $100 application fee is submitted.

1. APPLICANT INFORMATION

a. b.

☐ ☐ Corporation: ☐ verify status/ charter number with SOS ☐ print page ☐ Check spelling against 1.a. ☐ verify status/ TAX ID number with the Comptroller

☐ ☐ Individual: ☐ all info provided (Attachment 1 is required)

☑ ☐ Utility District: ☐ I-WUD - verify district is not dissolved (inactive is O.K. to process)

☐ ☐ Trust: ☐ copy of an executed trust agreement is provided by the applicant – each trustee or person on the estate must be listed on permit.

☐ ☐ Partnership: ☐ Verify w/ SOS ☐ Check against 1.a. ☐ Print page OR ☐ a copy of partnership agreement - If partnership not registered with SOS, the general partnership must register with the county where the facility is located. Limited Partnerships are required to register with SOS.

☐ ☐ Governmental Agency: Confirm legal name of agency when possible, using TNL City official book, State Directory.

☐ Verify address to be used on the permit is provided. ☐ Verify w/USPS ☐ print page

2. CONTACT INFORMATION

☑ a. Application Contact info provided ☑ b. Permit Contact info provided and ☐ Update made to database

3. PERMIT / REGISTRATION INFORMATION

☑ a. Check Permit No. and Expiration Date. If expired/ application & fee to be returned to the applicant. If expiring soon, contact the new owner to make certain they are aware of the expiration date.

☐ b. If permit requires implementation of approved pretreatment program, make a copy of endorsement and transfer application to Pretreatment Team Leader.

☐ c. If there is a Domestic Reclaimed Water authorization associated with the transfer, make copy of the entire transfer application and give to Applications Review and Processing Team Leader.

4. SITE INFORMATION

☑ a. Name of the project or site is provided - ☐ update to database needed/done

☐ b. Facility/outfall subject to Edward Aquifer rules

☐ c. The owner of land on which the treatment facility is located is the **SAME** as the applicant.

☐ Owner of the land DIFFERENT from the owner of the facility &:

___The treatment facility IS a fixture of land the owner of the land has applied as a co-permittee

OR

___The treatment facility is NOT a fixture of the land - provided a copy of a lease agreement

☐ d. If irrigation is authorized in permit:

_____ The applicant **OWNS** the effluent disposal site

_____ The applicant **DOES NOT OWN** the site & provided a long-term lease agreement for term of the permit

_____ The owner of the land where effluent disposal, sludge disposal, and/or composting is currently permitted or proposed, is the same as the applicant, and they are seeking authorization in this permit

☐ e. For CAFOs, provided Warranty Deed, Tax Records, and OR Lease; provided facility size info.

5. TRANSFER DATE

☑ a. Verify an actual date of transfer of ownership was provided

6. REPORTING / BILLING INFORMATION

☐ a. Verify mailing address for receiving DMR/MER forms with USPS.com

☐ Copy DMR Address Page and Give to Coders

☐ b. Verify mailing address for receiving annual Water Quality Fee assessments with USPS.com

☐ Update made in TRACS

7. TRANSFEROR (OPERATORE OF PERMITTED FACILITY) SIGNATURE PAGE

☑ **The appropriate signature of the Transferor, as indicated below has been provided, and has been notarized**:

___ City: elected official or position verified in TML City Official Book

___ Individual: only the individual signs for himself/herself.

___ Corporation: at least the level of vice president (CEO, Chairman of Board, Secretary equivalent to V.P.)

✓ Utility District: at least level of vice president, (Board of Directors, District Manager, the position can be verified through the District Section of TCEQ, Water Utilities Division).

___ Water Authority: Regional managers.

___ Independent School Districts: at least level of the Assistant Superintendent (or board members).

___ Governmental Agencies: Directors of Divisions or Regional Directors.

____ Partnership: General Partner as identified in the partnership agreement OR if the partnership is on file with the Secretary of State. The Vice President or General Partner may sign.

____ Trust: The trustee that has been identified in the trust agreement.

____ A letter of authorization for another person to sign on behalf of an entity has been provided or is on file with TCEQ. (The letter includes both the name and the title of person giving the authority.)

☐ If transferee can't obtain signature of transferor, app processed as involuntary transfer with the following:

____ Proof of ownership of the site, if applicable, and treatment facility has been provided by the transferee.

____ Facilities not built & permittee no longer has sufficient property rights in the site of the proposed facilities.

____ Transferor no longer owns the permitted facilities.

____ ED provided notice by certified mail to transferor, using the last address of record, giving opportunity for hearing, **and**

____ ED didn't receive request for hearing from permittee within 30 days from the date the notice was mailed.

8. TRANSFEREE (NEW SITE OWNER AND/OR OPERATOR) SIGNATURE PAGE

☑ **The appropriate signature of the Transferee, as indicated below has been provided, and has been notarized:**

✓ ____ City: elected official or position verified in TML City Official Book

____ Individual: only the individual signs for himself/herself.

____ Corporation: at least the level of vice president (CEO, Chairman of Board, Secretary Equivalent to V.P.)

____ Utility District: at least level of vice president, (Board of Directors, District Manager, and the position can be verified through the District Section of TCEQ, Water Utilities Division).

____ Water Authority: Regional managers

____ Independent School Districts: at least level of the Assistant Superintendent (or board members).

____ Governmental Agencies: Directors of Divisions or Regional Directors.

____ Partnership: General Partner as identified in the partnership agreement OR if the partnership is on file with the SOS. The Vice President or General Partner may sign.

____ Trust: The trustee that has been identified in the trust agreement.

____ A letter of authorization for another person to sign on behalf of an entity has been provided or is on file with TCEQ. The letter includes both the name and the title of person giving the authority.)

9. LANDOWNER SIGNATURE PAGE

☐ Landowner Original - If land application of sludge is authorized in the current permit and the owner of the land on which sludge disposal occurs is **NOT** the applicant **the sludge signature page** bearing the notarized signature of the landowner and applicant is provided.

PARIS UPDATES

☐ CR SEARCH Contacts ☐ Update Mailing Address ☐ Update Billing Address ☐ Facility and Facility Contact Person

☐ If you have a change in customer and there is **not a pending application** then click on Set issued To Name

☐ If there **is a pending application** you do not have to click on Set issued To Name

ICIS UPDATES

☐ Update ICIS/DMR Contact/Facility Address

WATERENGINEERS, INC.
WATER & WASTEWATER TREATMENT CONSULTANTS
17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643
TEL: 281-373-0500 FAX: 281-373-1113

Overnight by UPS

April 26, 2024

Texas Commission on Environmental Quality
Applications Review and Processing Team, MC 148
Building F Room 2101
12100 Park 35 Circle
Austin TX 78753

Re: Application for Transfer a Wastewater Permit from Brazoria County MUD No. 31 to City of Iowa Colony
TPDES Permit No. WQ0014546001
Brazoria County MUD 31 Wastewater Treatment Plant

Dear Sir/Ms:

Enclosed please find the original and one copy of the Application for Transfer of a Wastewater Permit from Brazoria County MUD No. 31 to City of Iowa Colony. This action affects Texas Pollution Discharge Elimination System Permit No. WQ0014546001 for the Brazoria County MUD 31 Wastewater Treatment Plant.

Please contact Shelley Young, P.E. at 281-373-0500 or at syoung@waterengineers.com if there are any questions related to the material presented in the application.

Sincerely,
WATERENGINEERS, INC.

Shelley Young

Shelley Young, P.E.

Encl: As noted

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION TO TRANSFER A WASTEWATER PERMIT OR CAFO PERMIT

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

SECTION 1. CURRENT PERMIT INFORMATION

What is the Permit Number? WQ0014546001

What is the EPA I.D. Number? TX 0126951

What is the Current Name on the Permit?

Brazoria County Municipal Utility District No. 31

What is the Customer Number (CN) for the current permittee? CN 602782195

What is the Regulated Entity Reference Number (RN): RN 104364096

For Publicly Owned Treatment Works (POTWs) Only:

a) Does this permit require implementation of an approved pretreatment program by the POTW? Yes ☐ No ☒

b) Does this permit have a domestic reclaimed water authorization associated with it? NOTE: **The domestic reclaimed water authorization associated with this permit will be cancelled on the same date the transfer took place**. See instructions for more information.
Yes ☐ No ☒

SECTION 2. FACILITY OWNER (APPLICANT) INFORMATION

A. What is the Legal Name of the facility owner?
City of Iowa Colony

B. What is the Customer Number (CN) issued to this entity? CN 605616473

C. Complete and attach a Core Data Form (TCEQ-10400) for this customer.

SECTION 3. CO-APPLICANT INFORMATION

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

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

N/A

B. What is the Customer Number (CN) issued to this entity? CN Click here to enter text.

C. Complete and attach a Core Data Form (TCEQ-10400) for this customer.

SECTION 4. APPLICATION CONTACT INFORMATION

This is the person TCEQ will contact if additional information is needed about this application.

Application Contact First and Last Name: Shelley Young

Title: Engineer Credentials: P.E.

Company Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A

City, State, and Zip Code: Cypress, TX 77429

Phone Number: 281-373-0500 Fax Number: 281-373-1113

E-mail Address: syoung@waterengineers.com

SECTION 5. PERMIT CONTACT INFORMATION

This is the person TCEQ will contact if additional information is needed during the term of the permit.

Permit Contact First and Last Name: Dinh Ho

Title: City Engineer Credentials: P.E.

Company Name: City of Iowa Colony

Mailing Address: 3144 Meridiana Parkway

City, State, and Zip Code: Iowa Colony, TX 77583

Phone Number: 281-797-0966 Fax Number: Click here to enter text.

E-mail Address: dinh@adico-llc.com

SECTION 6. SITE INFORMATION

Site Name: Brazoria County MUD 31 WWTP

SECTION 7. LEASE AND EASEMENT REQUIREMENTS

A. Landowner where the facility is or will be located:

Landowner Name: City of Iowa Colony

If this individual is not the same person as the facility owner or co-applicant, attach one of the following documents:

- A lease agreement or deed recorded easement, if the facility is NOT a fixture of the land, or
- A deed recorded easement if the facility IS a fixture of the land.

B. Landowner of the effluent disposal site:

Landowner Name: N/A

If this individual is not the same person as the facility owner or co-applicant, attach a lease agreement.

C. For CAFOs: Attach the following records:

- Warranty Deed or Property Tax Records
- Lease Agreement (for land management units that are not owned by the facility owner or co-applicant)

Facility Size on the proof of ownership, in acres: N/A

SECTION 8. TRANSFER DATE

What is the date that the transfer of operator or ownership will occur? June 1, 2024

SECTION 9. REPORTING AND BILLING INFORMATION

A. Please identify the individual for receiving the reporting forms.

First and Last Name: Michael Thornhill

Title: Director of Compliance Credentials: Click here to enter text.

Company Name: Si Environmental, LLC

Mailing Address: 6420 Reading Road

City, State, and Zip Code: Rosenberg, TX 77471

Phone Number: 832-490-1507 Fax Number: 832-490-1501

E-mail Address: mthornhill@sienviro.com

B. Please identify the individual for receiving the annual fee invoices.

First and Last Name: Sandra Castro

Title: Senior Accountant Credentials: Click here to enter text.

Company Name: City of Iowa Colony

Mailing Address: 3144 Meridiana Parkway

City, State, and Zip Code: Iowa Colony, TX 77583

Phone Number: 346-395-4527 Fax Number: Click here to enter text

E-mail Address: scastro@iowacolonytx.gov

SECTION 10. DELINQUENT FEES OR PENALTIES

Do you owe fees to the TCEQ? Yes ☐ No ☒

Do you owe any penalties to the TCEQ? Yes ☐ No ☒

If you answered yes to either of the above questions, provide the amount owed, the type of fee or penalty, and an identifying number.

Click here to enter text.

TCEQ

TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of 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 **TPDES Transfer Application**

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 605616473		RN 104364096

SECTION II: Customer Information

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

☐ New Customer ☐ Update to Customer Information ☒ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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

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

City of Iowa Colony

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

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

Government: ☒ City ☐ County ☐ Federal ☐ 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 ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address: 3144 Meridiana Parkway

City	State	ZIP	ZIP + 4
Iowa Colony	TX	77583	

16. Country Mailing Information *(if outside USA)*

17. E-Mail Address *(if applicable)*

dinh@adico-llc.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(281) 797-0966		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☐ 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 Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)

RECEIVED APR 26 2024 Water Quality Applications Team

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

Brazoria County MUD 31 Wastewater Treatment Plant

23. Street Address of the Regulated Entity: *(No PO Boxes)*	2401 Cou Road 57							
	City	Rosharon	**State**	TX	**ZIP**	77583	**ZIP + 4**	
24. County	Brazoria							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	

26. Nearest City	**State**	**Nearest ZIP Code**
Rosharon	TX	77583

27. Latitude (N) In Decimal:	29.455264		**28. Longitude (W) In Decimal:**	95.438792	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	27	18.95	-95	26	19.65

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)
9199		921190	

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

City Government

34. Mailing Address:	**3144 Meridiana Parkway**							
	City	**Iowa Colony**	**State**	**TX**	**ZIP**	**77583**	**ZIP + 4**	
35. E-Mail Address:	**dinh@adico-llc.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 797-966		( ) -

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	☒ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0014546001			

RECEIVED
APR 26 2024
Water Quality Applications Team

SECTION IV: Preparer Information

40. Name:	Shelley Young	**41. Title:**	Consulting Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(281) 373-0500		(281) 373-1113	syoung@waterengineers.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:	WaterEngineers, Inc.	**Job Title:**	Engineer
Name*(In Print)* **:**	Shelley Young, P.E.	**Phone:**	(281) 373-0500
Signature:	Shelley Young	**Date:**	4/25/2024

TRANSFEROR SIGNATURE (Current Facility Owner)

I consent to the transfer of the permit and 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 Section 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

Facility Owner Name: Brazoria County Municipal Utility District No. 31

Title: Micah Kreikemeier, Board President

Signature: _____ Date: 4/9/24

SUBSCRIBED AND SWORN to before me by the said Micah Kreikemeier on

this 9th day of April, 2024

My commission expires on the 28th day of August, 2027

ARLENE ELISE CATALAN
Notary Public, State of Texas
Comm. Expires 08-28-2027
Notary ID 132449165

(Seal)

_____
Notary Public

Harris
County, Texas

RECEIVED
APR 26 2024
Water Quality Applications Team

TRANSFEREE SIGNATURE (New Facility Owner)

I certify that a change of ownership of the facility for the subject permit has been issued will occur as indicated in the application. As a condition of the transfer, I do hereby declare that:

The transferee will be the owner of the existing treatment facility from which wastewater is discharged, deposited or disposed or the facilities required to comply with the permit will be constructed as described in the application considered by the TCEQ prior to the issuance of the permit.

The transferee possesses a copy of the permit, understands the terms and conditions therein, and does accept and assume all obligations of the permit.

The transferee assumes financial responsibility for the proper maintenance and operation of all waste treatment and disposal facilities required by the permit or which may be required to comply with the permit terms and conditions. The transferee certifies that the transfer is not made for the purpose of avoiding liability for improper actions carried out prior to the date of transfer. Neither is the transfer made for the purpose of transferring responsibility for improper operations to an insolvent entity.

The transferee certifies under penalty of law that this document 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 known violations and revocation of this permit.

New Facility Owner: City of Iowa Colony

Title: City Manager-Robert Hemminger

Signature: _____ Date: 4-23-2024

SUBSCRIBED AND SWORN to before me by the said Robert Hemminger on this 23rd day of April, 20 24

My commission expires on the 26th day of August, 20 25

KAYLEEN ROSSER
ID #131230915
My Commission Expires
August 26, 2025
(Seal)

Kayleen Rosser
Notary Public

Brazoria
County, Texas

RECEIVED
APR 26 2024
Water Quality Applications Team

WATERENGINEERS, INC.
WATER & WASTEWATER TREATMENT CONSULTANTS
17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643
TEL: 281-373-0500 FAX: 281-373-1113

Overnight by UPS

April 26, 2024

Texas Commission on Environmental Quality
Revenues Section, MC 214
12100 Park 35 Circle
Austin TX 78753

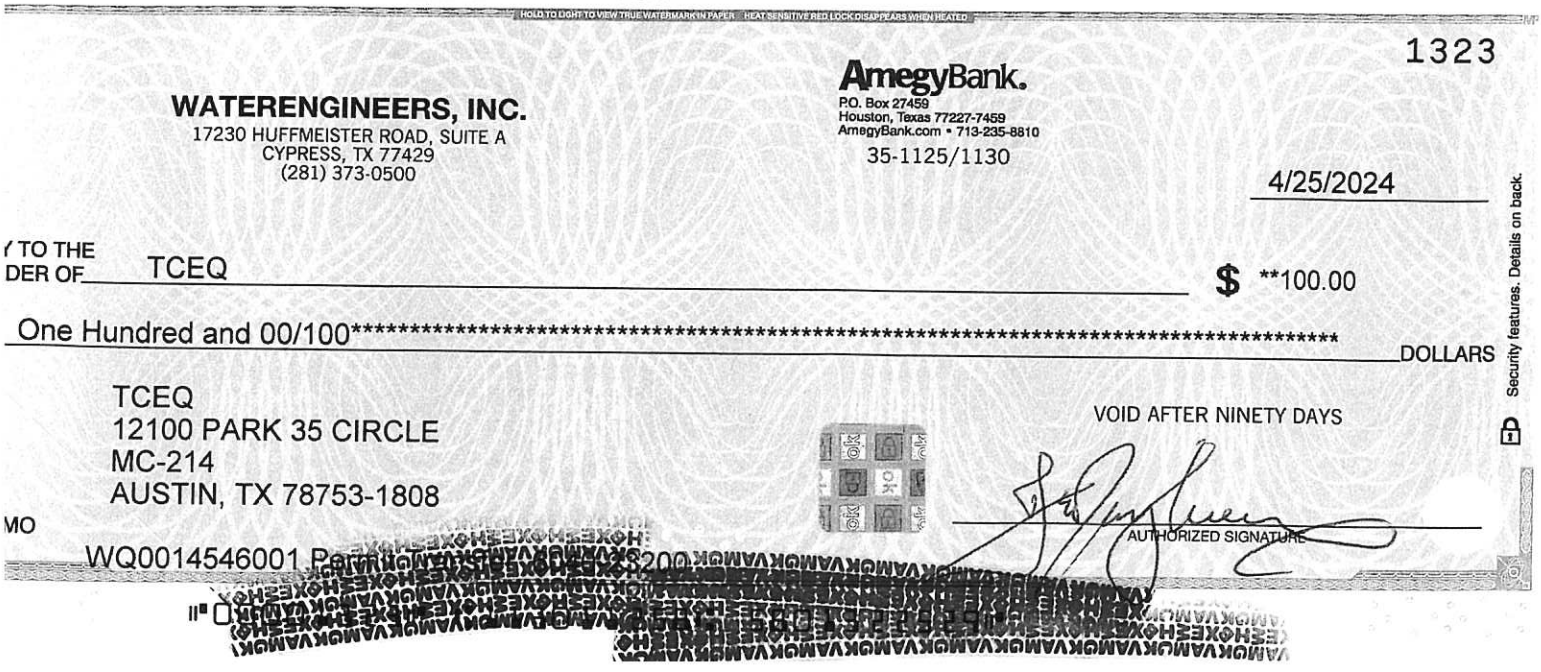
Re: Application for Transfer a Wastewater Permit from Brazoria County MUD No. 31 to City of Iowa Colony
TPDES Permit No. WQ0014546001
Brazoria County MUD 31 Wastewater Treatment Plant

Dear Sir/Ms:

Enclosed please find check number 1234 in the amount of $100.00 for the Application for Transfer of a Wastewater Permit from Brazoria County MUD No. 31 to City of Iowa Colony. This action affects Texas Pollution Discharge Elimination System Permit No. WQ0014546001 for the Brazoria County MUD 31 Wastewater Treatment Plant.

Please contact Shelley Young, P.E. at 281-373-0500 or at syoung@waterengineers.com if there are any questions related to the material presented in the application.

Sincerely,



SHELLY B. YOUNG
2813730500
WATERENGINEERS, INC.
17230 HUFFMEISTER ROAD
CYPRESS TX 77429

1 LBS **1 OF 1**

DWT: 12,9,1

SHIP TO:
EXECUTIVE DIRECTOR
TCEQ-(MC148)
WATER QUALITY APPLICATIONS TEAM
BLDG F, RM 2101, (MC 148)
12100 PARK 35 CIRCLE
AUSTIN TX 78753

TX 787 9-72

UPS GROUND

TRACKING #: 1Z X65 F11 03 9356 2798

BILLING: P/P

Reference #1: 6040-23200

XOL 24.

Package Tracking Label

Recipient: WATER QUALITY
Location: TX, BLDG F, 2ND, 140_145_150_148_228_146

Personnel Id:
Received Date: Apr 26, 2024 12:35 PM

1ZX65F110393562798

4/25/24, 3:33 PM

FOR UPS SHIPPING ONLY

RECEIVED
APR 2 6 2024
Water Quality Applications Team

Customer Name: BRASUELL, WAYNETTE POLLOCK
Account #: 23713049 Debtcollpath Stage: AGENCY:REFERRED Calls:

Total of delinquent transactions (Account): $4687.50
Total of delinquent transactions (Customer): $4687.50

Customer Name: BRAVO DAL-DRY LLC
Account #: 24007807 Debtcollpath Stage: Calls: HOLD

DCR	DCR0257935	DRY CLEAN REG FEE 1	FY24Q	DCR10475	31-DEC-23	31-JAN-24		$625.00

Total of delinquent transactions (Account): $625.00
Total of delinquent transactions (Customer): $625.00

Customer Name: BRAWLER MANUFACTURING LLC
Account #: 20042545 Debtcollpath Stage: WHOLD:REFERRED,UNCOL:EXHAUST Calls:

GPS	GPS0204275	GEN PMTS STORMWTR	FY17	TXR05CB87	31-DEC-16	31-JAN-17		$200.00
GPS	SC00201455	LATE FEE - FEB 2017			10-FEB-17	10-FEB-17		$10.00
GPS	SC00204221	LATE FEE - MAR 2017			10-MAR-17	10-MAR-17		$10.00

Total of delinquent transactions (Account): $220.00
Total of delinquent transactions (Customer): $220.00

Customer Name: BRAY'S CLEANERS & FURRIERS
Account #: 0302903G Debtcollpath Stage: WHOLD:REFERRED,UNCOL:EXHAUST Calls:

HWG	HWG0030480	HAZ WASTE GEN FEE TONS: FY96		0000069352	27-FEB-96	27-MAR-96		$100.00

Total of delinquent transactions (Account): $100.00
Total of delinquent transactions (Customer): $100.00

Customer Name: BRAZORIA COUNTY B R HANSEN PAR
Account #: 90200480 Debtcollpath Stage: Calls: NOTES

PHS	SC00339163	LATE FEE - JAN 2024			10-JAN-24	10-JAN-24		$5.00
PHS	SC00341651	LATE FEE - FEB 2024			10-FEB-24	10-FEB-24		$5.00

Total of delinquent transactions (Account): $10.00
Total of delinquent transactions (Customer): $10.00

Customer Name: BRAZORIA COUNTY BRAZOS RIVER P
Account #: 90200494 Debtcollpath Stage: Calls: NOTES

PHS	SC00339164	LATE FEE - JAN 2024			10-JAN-24	10-JAN-24		$5.00
PHS	SC00341652	LATE FEE - FEB 2024			10-FEB-24	10-FEB-24		$5.00

Total of delinquent transactions (Account): $10.00
Total of delinquent transactions (Customer): $10.00

Customer Name: BRAZORIA COUNTY MUD 26
Account #: 20042798 Debtcollpath Stage: Calls:

GPS	SC00342347	LATE FEE - FEB 2024			10-FEB-24	10-FEB-24		$5.00

Total of delinquent transactions (Account): $5.00
Total of delinquent transactions (Customer): $5.00

Customer Name: BRAZORIA COUNTY PARKS SAN LUIS
Account #: 90200562 Debtcollpath Stage: Calls: NOTES

PHS	SC00339170	LATE FEE - JAN 2024			10-JAN-24	10-JAN-24		$5.00
PHS	SC00341657	LATE FEE - FEB 2024			10-FEB-24	10-FEB-24		$5.00

Customer Name: CITY OF EDMONSON

Total of delinquent transactions (Customer): $1.90

Customer Name: CITY OF GALENA PARK
Account #: 20037571 Debtcollpath Stage: Calls:

GPS	SC00341990	LATE FEE - FEB 2024			10-FEB-24	10-FEB-24	$5.00

Total of delinquent transactions (Account): $5.00

Total of delinquent transactions (Customer): $5.00

Customer Name: CITY OF JAMAICA BEACH
Account #: 23002540 Debtcollpath Stage: Calls:

CWQ	SC00336787	LATE FEE - DEC 2023			10-DEC-23	10-DEC-23	$140.14

Total of delinquent transactions (Account): $140.14

Total of delinquent transactions (Customer): $140.14

Customer Name: CITY OF KIRVIN
Account #: 90810019 Debtcollpath Stage: Calls:

PHS	SC00344271	LATE FEE - MAR 2024			10-MAR-24	10-MAR-24	$4.16

Total of delinquent transactions (Account): $4.16

Total of delinquent transactions (Customer): $4.16

Customer Name: CITY OF LA MARQUE
Account #: 20037906 Debtcollpath Stage: Calls: HOLD

GPS	GPS0261195	SW WQ ANNUAL FEE	FY24	TXR040178	31-DEC-23	31-JAN-24		$100.00
GPS	GPS0261196	SW WQ ANNUAL FEE	FY24	TXR05FT41	31-DEC-23	31-JAN-24		$200.00
GPS	SC00346504	LATE FEE - APR 2024			10-APR-24	10-APR-24		$2.85

Total of delinquent transactions (Account): $302.85

Account #: 23004109 Debtcollpath Stage: Calls: HOLD

CWQ	CWQ0073382	PERMIT	FY24	0010410003	31-OCT-23	30-NOV-23		$20027.67
CWQ	SC00336831	LATE FEE - DEC 2023			10-DEC-23	10-DEC-23		$1001.38
CWQ	SC00339042	LATE FEE - JAN 2024			10-JAN-24	10-JAN-24		$1001.38
CWQ	SC00341592	LATE FEE - FEB 2024			10-FEB-24	10-FEB-24		$190.26
CWQ	SC00346260	LATE FEE - APR 2024			10-APR-24	10-APR-24		$190.26

Total of delinquent transactions (Account): $22410.95

Total of delinquent transactions (Customer): $22713.80

Customer Name: CITY OF MELISSA
Account #: 20042791 Debtcollpath Stage: Calls:

GPS	SC00344758	LATE FEE - MAR 2024			10-MAR-24	10-MAR-24	$5.00

Total of delinquent transactions (Account): $5.00

Total of delinquent transactions (Customer): $5.00

Customer Name: CITY OF MERTENS
Account #: 23006550 Debtcollpath Stage: AGENCY:REFERRED Calls:

CWQ	CWQ0075269	PERMIT	FY24	0015055001	31-OCT-23	30-NOV-23		$1250.00
CWQ	SC00337312	LATE FEE - DEC 2023			10-DEC-23	10-DEC-23		$62.50
CWQ	SC00342266	LATE FEE - FEB 2024			10-FEB-24	10-FEB-24		$11.87
CWQ	CWQ0075269	COLLECTION COST RECOVERY			01-MAR-24	01-MAR-24		$312.50
CWQ	SC00344699	LATE FEE - MAR 2024			10-MAR-24	10-MAR-24		$11.87
CWQ	SC00346648	LATE FEE - APR 2024			10-APR-24	10-APR-24		$11.87

Water Quality Receipt Report

MAY-07-24 09:00 PM

Paid In By: WATERENGINEERS INC

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M415139A	14624001	CK	1303		22-MAR-24	-$800.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M415139B	14624001	CK	1303		22-MAR-24	-$15.00
WATER QUALITY PERMIT APPLICATION	WQP	M415577A		CK	1302		01-APR-24	-$1200.00
WATER QUALITY PERMIT APPLICATION	WQP	M415578		CK	1294		01-APR-24	-$100.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M415577B		CK	1302		01-APR-24	-$50.00
WATER QUALITY PERMIT APPLICATION	WQP	M416543A	15777001	CK	1300		19-APR-24	-$300.00
WATER QUALITY PERMIT APPLICATION	WQP	M416544A	11518001	CK	1288		19-APR-24	-$300.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M416543B	15777001	CK	1300		19-APR-24	-$15.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M416544B	11518001	CK	1288		19-APR-24	-$15.00
WATER QUALITY PERMIT APPLICATION	WQP	M417041	14546001	CK	1323		01-MAY-24	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M417173A		CK	1322		06-MAY-24	-$1600.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M417173B		CK	1322		06-MAY-24	-$50.00
WATER QUALITY PERMIT APPLICATION	WQP	M417229	16359001	CK	1326		07-MAY-24	-$100.00

Paid In By: WATERFLEET LLC

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M312111		CK	19555		17-FEB-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M318683		CK	20220		13-JUL-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M318684		CK	20301		13-JUL-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M401279		CK	20803		17-OCT-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M401280		CK	20801		17-OCT-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M413496		CK	21496		26-FEB-24	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M415530		CK	21575		01-APR-24	-$100.00

Paid In By: WATERWORKS UTILITY INC

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M407507A	13075001	CK	1155		18-DEC-23	-$300.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M407507B	13075001	CK	1155		18-DEC-23	-$15.00

Look Up a ZIP Code™ FAQs (https://www.usps.com/faqs.htm)

Go to

ZIP Code™ by Address

You entered:

3144 MERIDIANA PKWY
IOWA COLONY TX

If more than one address matches the information provided, try narrowing your search by entering a street address and, if applicable, a unit number. **Edit and search again. (zip-code-lookup.htm?byaddress)**

3144 MERIDIANA PKWY
IOWA COLONY TX **77583-5494**

Look Up Another ZIP Code™

Edit and Search Again (/zip-code-lookup.htm?byaddress)

Mimi Wallace

From: Leah Whallon
Sent: Thursday, April 25, 2024 2:40 PM
To: Mimi Wallace
Subject: FW: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31

fyi

From: Leah Whallon
Sent: Wednesday, April 24, 2024 9:30 AM
To: Shelley Young <syoung@waterengineers.com>
Subject: RE: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31

Yes, that would be great!

Thanks,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

From: Shelley Young <syoung@waterengineers.com>
Sent: Wednesday, April 24, 2024 9:29 AM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: RE: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31

I can send you an electronic copy when I send in the physical one, if that will help.

Regards,

Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Wednesday, April 24, 2024 9:27 AM
To: Shelley Young <syoung@waterengineers.com>
Cc: Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Subject: RE: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31

Thanks, Shelley!

I will keep an eye out for it.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

From: Shelley Young <syoung@waterengineers.com>
Sent: Wednesday, April 24, 2024 9:24 AM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: RE: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31

Hi Leah,

I should be receiving the final signature page from the City of Iowa Colony today or tomorrow. As soon as I receive it, I will overnight the package to TCEQ.

Shelley

Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Wednesday, April 24, 2024 9:19 AM
To: Shelley Young <syoung@waterengineers.com>
Cc: Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Subject: RE: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31

Good Morning Shelley,

I'm helping Miguel with this application and he mentioned a transfer application may be sent in. Are you still planning on applying for the transfer or do you know when it will be submitted?

Thanks,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

---

From: Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Sent: Tuesday, April 23, 2024 10:33 AM
To: Shelley Young <syoung@waterengineers.com>
Cc: Mimi Wallace <mimi.wallace@tceq.texas.gov>; Josi Robertson <Josi.Robertson@tceq.texas.gov>; Orlando Vasquez <Orlando.Vasquez@tceq.texas.gov>; Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31

Good morning Ms. Young,

The following information is required to include the proposed discharge route in the draft permit.

1. Can you please provide an updated Section 10 of the Administrative Report 1.0, and preferably that the outfall coordinates be in decimal format with six digits to right of decimal.
2. If the proposed discharge route includes a new ditch, please provide its name and the approximate length. If the proposed discharge route includes a set of detention ponds, please provide the dimensions of the ponds including depth and type of bottom.
3. In the proposed effluent path, how will the discharge meet the ditch where the red/existing line stops? Is it via pipe to that ditch?
4. Please provide a pdf of the USGS map showing which waterbody it will discharge to as our USGS map viewer is not refined enough in that particular area.
5. Need to verify if there would be any changes in the landowners?

Thank you for your time and please let me know if you have any questions.

Sincerely,

Miguel A. Mercado
Municipal Permits Team
Water Quality Division
Texas Commission on Environmental Quality
(512) 239-4547 | miguel.mercado@tceq.texas.gov

For status of permit, visit www.tceq.texas.gov/goto/cid.

Miguel Mercado

From: Shelley Young <syoung@waterengineers.com>
Sent: Tuesday, April 23, 2024 11:10 AM
To: Miguel Mercado
Subject: RE: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31
Attachments: ADMIN.04 R2.pdf; 2024.04.12 WWTP Effluent Flow Path.pdf; Labels.docx; ADMIN.04 ~Downstream-1.doc; Aerial view of discharge route.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Miguel,

I was just finishing the updated landowner information when you emailed. Attached are the updated landowner map, updated landowner list, updated labels, and updated effluent flow path just received from the district engineer.

The effluent will still be discharged to the ditch just north of the plant, however as shown on the effluent flow path attachment, the ditch will be re-routed to the southwest corner of the first detention pond, then flow north to the next detention pond, then east to final detention pond, where it will discharge to West Fork Chocolate Bayou.

Please see additional information below in RED.

Regards,
Shelley

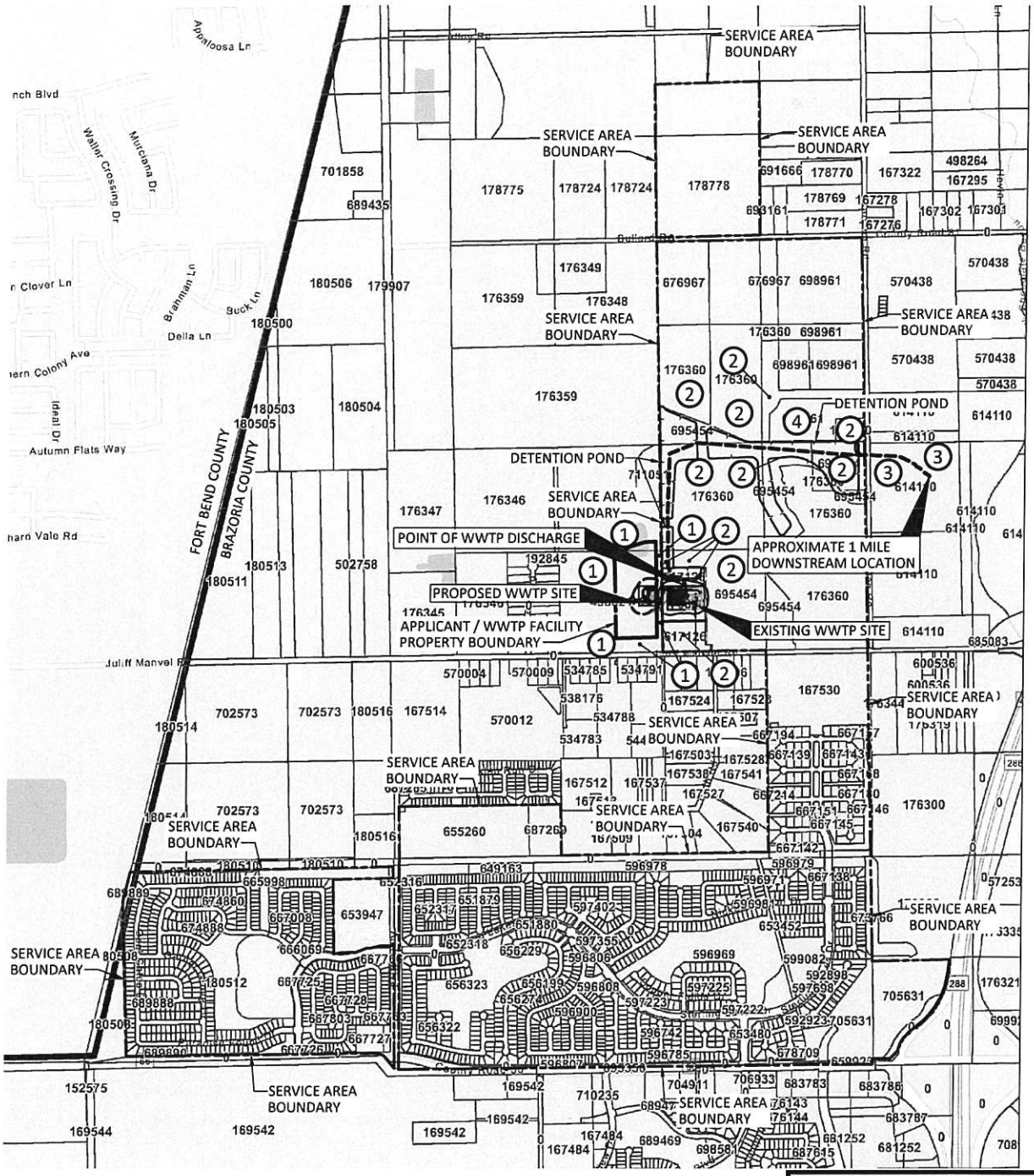
Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Sent: Tuesday, April 23, 2024 10:33 AM
To: Shelley Young <syoung@waterengineers.com>
Cc: Mimi Wallace <mimi.wallace@tceq.texas.gov>; Josi Robertson <Josi.Robertson@tceq.texas.gov>; Orlando Vasquez <Orlando.Vasquez@tceq.texas.gov>; Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31

Good morning Ms. Young,

The following information is required to include the proposed discharge route in the draft permit.

1. Can you please provide an updated Section 10 of the Administrative Report 1.0, and preferably that the outfall coordinates be in decimal format with six digits to right of decimal. Please see attached Page 9 of the Admin Report. The discharge location remains the same.



LEGEND

① DENOTES LANDOWNER
SEE ATTACHED TABLE FOR LANDOWNERS

PROPOSED SERVICE AREA BOUNDARY

N

0 1000 2000

SCALE:1" = 1000'-0" (24"x36")
1" = 2000'-0" (11"x17" 8.5"x11")

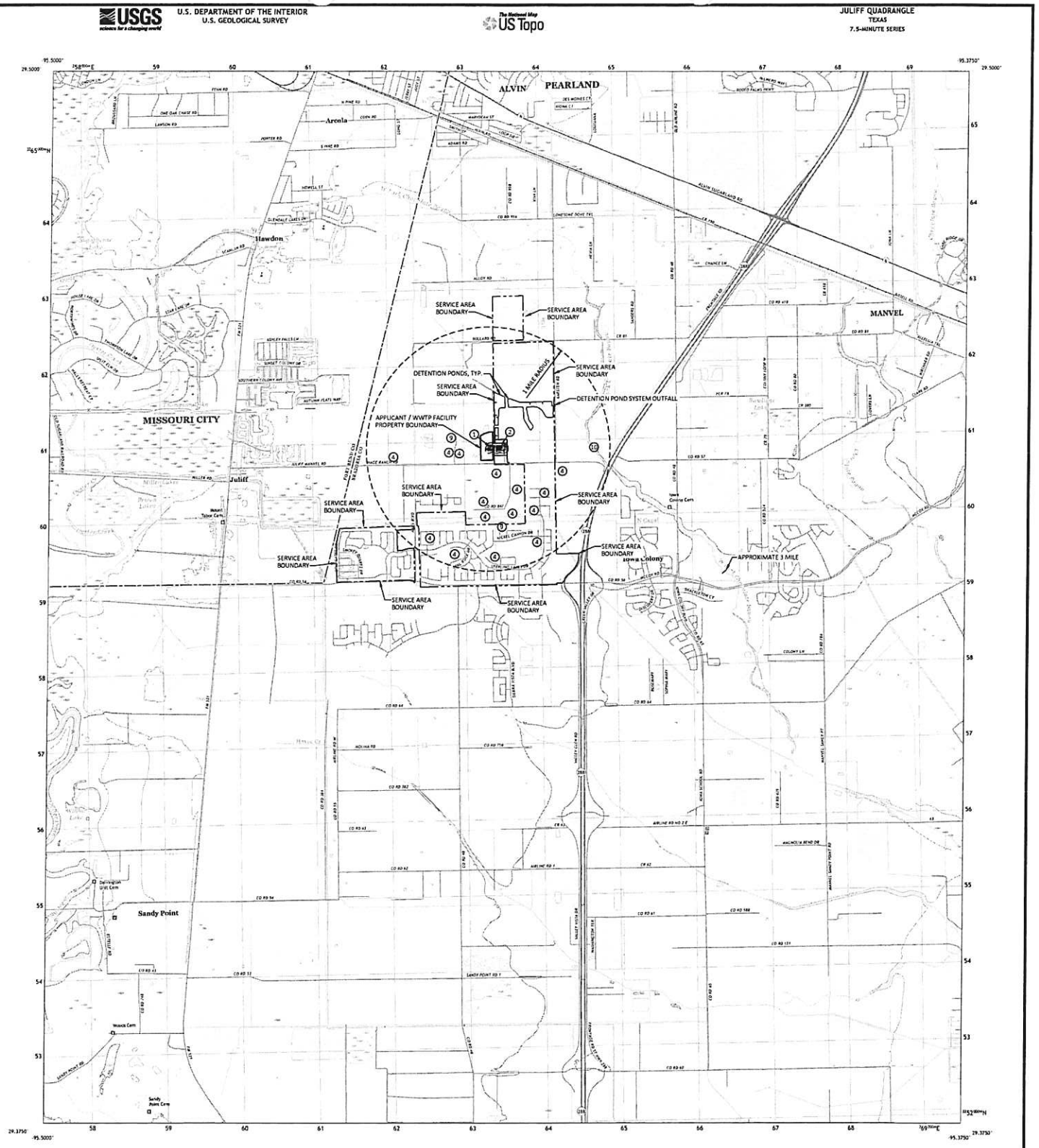
WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0014546001

DOWNSTREAM & ADJACENT LANDOWNERS MAP

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	**ADMIN.04**
SCALE: AS NOTED	
DATE: 4/22/2024	
JOB No.: 6040-23200	

\\server\wei cad\current jobs\6040-23200 brazoria county mud no. 31 major amendment '23\wei current\admin.04.dwg



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 15N

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,	October 2016 - November 2016	
Roads	U.S. Census Bureau,		2015
Names	GNIS,	1979 -	2022
Hydrography	National Hydrography Dataset,	2003 -	2018
Contours	National Elevation Dataset,		2021
Boundaries	various sources; one 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

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
0.5 0
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

1 Missouri City
2 Almeda
3 Pearland
4 Thompsons
5 Manvel
6 Otey
7 Rosharon
8 Liverpool

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

JULIFF, TX 2022

LEGEND
1. APPLICANT'S WASTEWATER TREATMENT PLANT
2. POINT OF DISCHARGE
3. COMMERCIAL DEVELOPMENT
4. HOUSING DEVELOPMENT
5. INDUSTRIAL SITE
6. PARK
7. SCHOOLS
8. RECREATIONAL AREA
9. PUBLIC WATER WELL
10. EXISTING WWTP (OWNED BY OTHERS)

WATER ENGINEERS, INC.
Water & Wastewater Treatment Consultants

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0015496001

USGS TOPOGRAPHIC MAP

ADMIN.01

\\server\wei cad\current jobs\6040-23200 brazoria county mud no. 31 major amendment '23\wei current\admin.01-topf 01.dwg

TABLE "ADMIN.04"

Brazoria County MUD 31
Brazoria County MUD 31 Wastewater Treatment Plant

Adjacent & Downstream Land Ownership Table
Source: Brazoria County Appraisal District

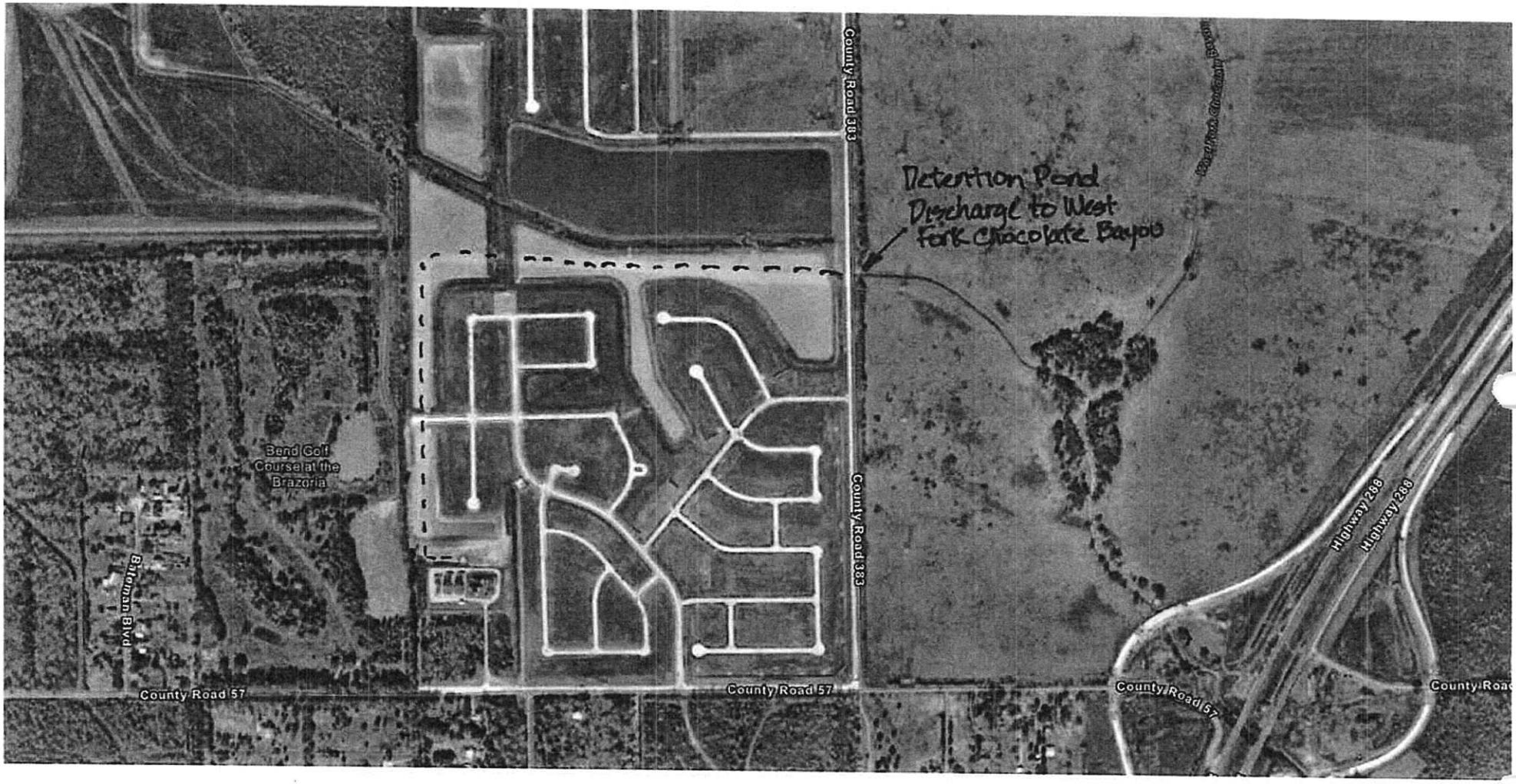
Tract No. (See Attachment "ADMIN.04" Map)	**Title Owner & Address**
1	608 COLONY INVESTMENTS LTD 10003 N W MILITARY HWY SUITE 2201 SAN ANTONIO TX 78231
2	ASTRO STERLING LAKES NORTH LP C/O STARWOOD LAND ADVISORS LLC 8433 ENTERPRISE CIRCLE SUITE 100 LAKEWOOD RANCH FL 34202
3	HANNOVER ESTATES LTD 1616 S VOSS ROAD SUITE 618 HOUSTON TX 77057
4	ALVIN ISD 301 E HOUSE STREET ALVIN TX 77511

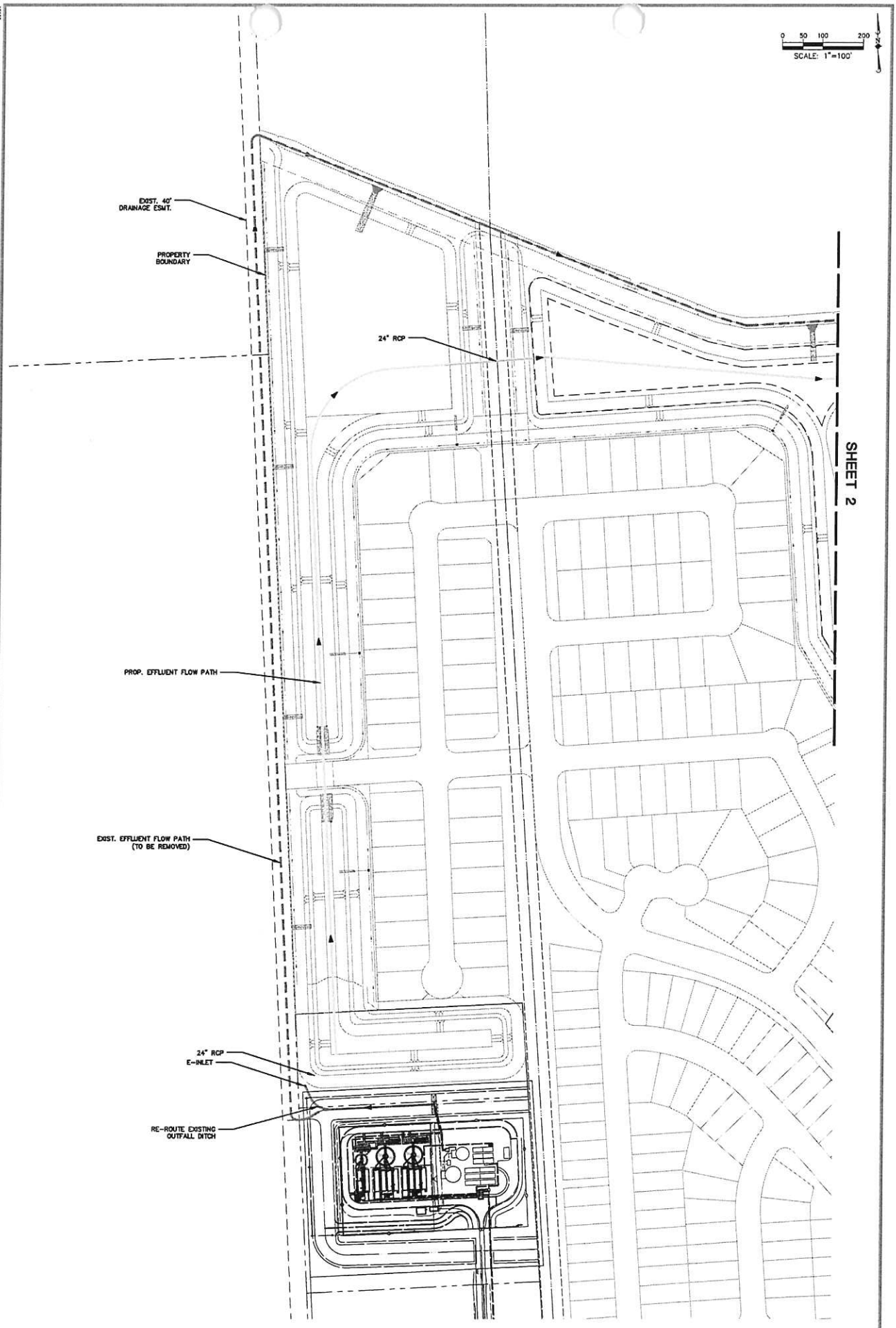
608 COLONY INVESTMENTS LTD.
10003 N W MILITARY HWY STE 2201
SAN ANTONIO TX 78231

ASTRO STERLING LAKES NORTH LP
C/O STARWOOD LAND ADVISOTRS
8433 ENTERPRISE CIRCLE SUITE 100
LAKEWOOD RANCH FL 34202

HANNOVER ESTATES LTD
1616 S VOSS ROAD SUITE 618
HOUSTON TX 77057

ALVIN ISD
301 E HOUSE STREET
ALVIN TX 77511


Detention Pond
Discharge to West
Fork Chocolate Bayou
County Road 383
County Road 383
Bend Golf
Course at the
Brazoria
Bitterman Blvd
County Road 57
County Road 57
County Road 57
Highway 288
Highway 288

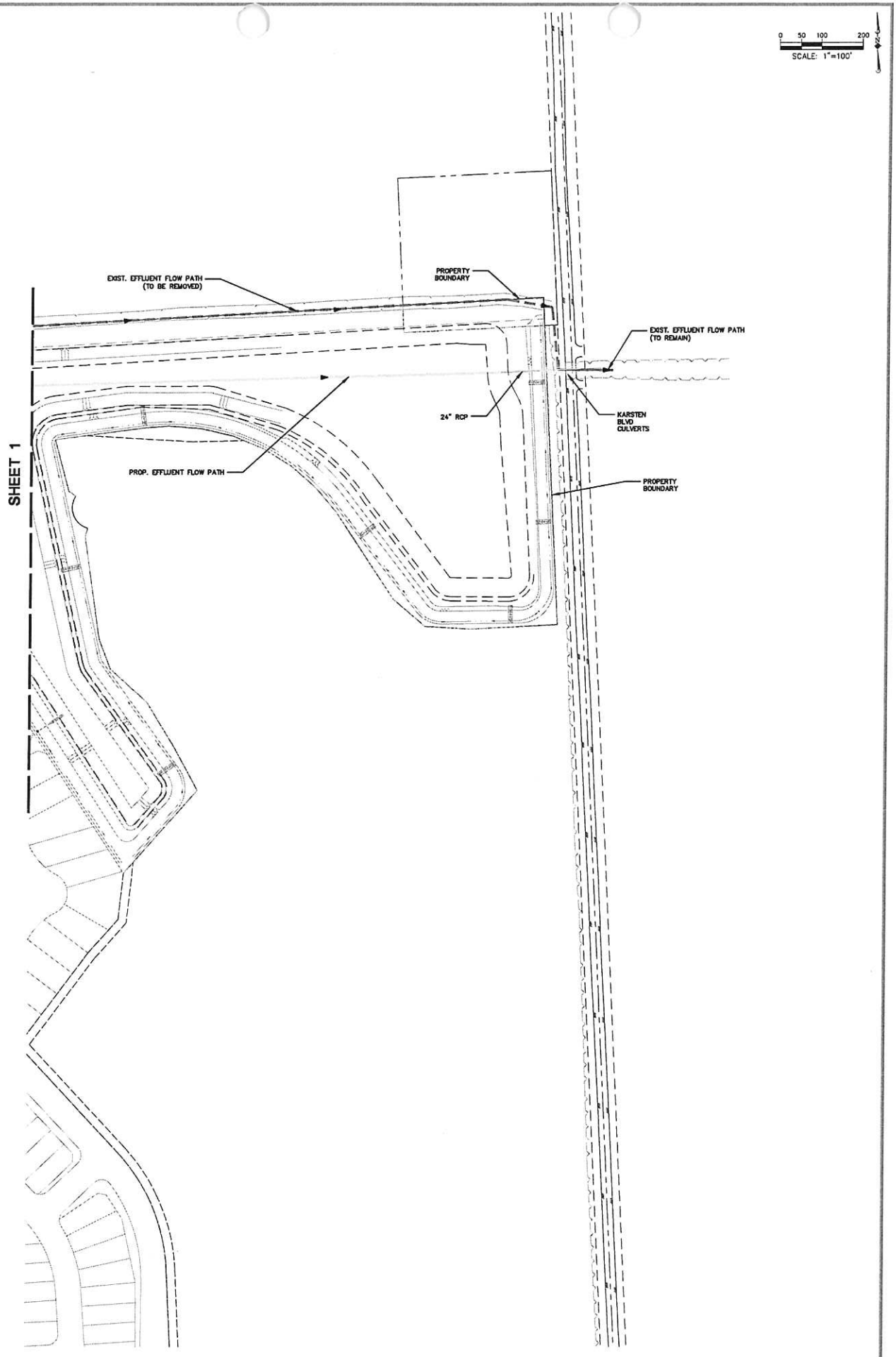


WWTP EFFLUENT FLOW PATH (PAGE 1 OF 2)

BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 31

APRIL 12, 2024

ELEVATION land solutions



WWTP EFFLUENT FLOW PATH (PAGE 2 OF 2)

BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 31

APRIL 12, 2024

ELEVATION land solutions

Miguel Mercado

From: Shelley Young <syoung@waterengineers.com>
Sent: Tuesday, April 23, 2024 2:36 PM
To: Miguel Mercado
Subject: RE: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31
Attachments: ADMIN.01.pdf

Hi Miguel.

Attached is the updated USGS map.

Shelley

Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Sent: Tuesday, April 23, 2024 10:33 AM
To: Shelley Young <syoung@waterengineers.com>
Cc: Mimi Wallace <mimi.wallace@tceq.texas.gov>; Josi Robertson <Josi.Robertson@tceq.texas.gov>; Orlando Vasquez <Orlando.Vasquez@tceq.texas.gov>; Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: Proposed new discharge route for WQ0014546001 - Brazoria County Municipal Utility District 31

Good morning Ms. Young,

The following information is required to include the proposed discharge route in the draft permit.

1. Can you please provide an updated Section 10 of the Administrative Report 1.0, and preferably that the outfall coordinates be in decimal format with six digits to right of decimal.
2. If the proposed discharge route includes a new ditch, please provide its name and the approximate length. If the proposed discharge route includes a set of detention ponds, please provide the dimensions of the ponds including depth and type of bottom.
3. In the proposed effluent path, how will the discharge meet the ditch where the red/existing line stops? Is it via pipe to that ditch?
4. Please provide a pdf of the USGS map showing which waterbody it will discharge to as our USGS map viewer is not refined enough in that particular area.
5. Need to verify if there would be any changes in the landowners?

Thank you for your time and please let me know if you have any questions.

Sincerely,

Miguel A. Mercado

Municipal Permits Team
Water Quality Division
Texas Commission on Environmental Quality
(512) 239-4547 | miguel.mercado@tceq.texas.gov

For status of permit, visit www.tceq.texas.gov/goto/cid.

Miguel Mercado

From: Shelley Young <syoung@waterengineers.com>
Sent: Monday, April 22, 2024 5:19 PM
To: Miguel Mercado
Subject: RE: WQ0014546001 - Brazoria County Municipal Utility District 31 Technical Review

Hi Miguel,

BCMUD 53's engineer through me a curve ball right when I was getting ready to send you the updated map. I will have something for you tomorrow.

Shelley

Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Sent: Monday, April 22, 2024 10:36 AM
To: Shelley Young <syoung@waterengineers.com>
Subject: RE: WQ0014546001 - Brazoria County Municipal Utility District 31 Technical Review

Good morning Ms. Young,

I hope you are doing well. Thank you for your responses. I wanted to follow up on the updated landowner map and to see if the transfer application has been submitted. Thank you for your time.

Sincerely,

Miguel A. Mercado
Municipal Permits Team
Water Quality Division
Texas Commission on Environmental Quality
(512) 239-4547 | miguel.mercado@tceq.texas.gov

For status of permit, visit www.tceq.texas.gov/goto/cid.

Miguel Mercado

From: Shelley Young <syoung@waterengineers.com>
Sent: Thursday, April 4, 2024 4:43 PM
To: Miguel Mercado
Subject: RE: WQ0014546001 - Brazoria County Municipal Utility District 31 Technical Review
Attachments: ADMIN.06.pdf; BRAZORIA COUNTY MUD 31 WWTP COMPONENTS.docx; Design & Loading Criteria Table~Train 6.pdf; Worksheet 2.0.pdf; 2022.06.22 Effluent Flow Path.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Regards,

Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Miguel Mercado <Mguel.Mercado@tceq.texas.gov>
Sent: Tuesday, March 26, 2024 3:48 PM
To: Shelley Young <syoung@waterengineers.com>
Subject: WQ0014546001 - Brazoria County Municipal Utility District 31 Technical Review

Good afternoon Ms. Young,

My name is Miguel A. Mercado, I am the permit writer assigned to this application. Below are the items needed to complete my technical review:

Technical Report Data Completeness Review - Domestic Wastewater Permit Application

- **Domestic Technical Report 1.0, Section 2. Treatment Process**
  - **Subsection A. Treatment process description:** Need to verify if the plant still operates in the active sludge complete mix mode, as the fact sheet of the existing permit documents? Yes, that is correct.
  - **Subsection B. Treatment units:** Would the Final phase add three replicas of Train No. 6? If that is the case, the Final phase will be at a total of 1.9 MGD; how will the 2.0 MGD be accomplished? The final phase will have to be upsized slightly to account for the final .1 mgd.
  - **Subsection C. Process flow diagrams:** The process flow diagram for Interim II and Final phases depicts the dechlorination occurring before the effluent from Train 1 - 5 are introduced for a combined dechlorination. If this is not accurate, please provide an updated process flow diagram. The Interim II and Final Phases flow diagram shows the dechlorinated flows coming

together before entering the sampling manhole which combines all flows. The intent is to dechlorinate Trains 1-5, separately from 6-9, and combine all flows for sampling.

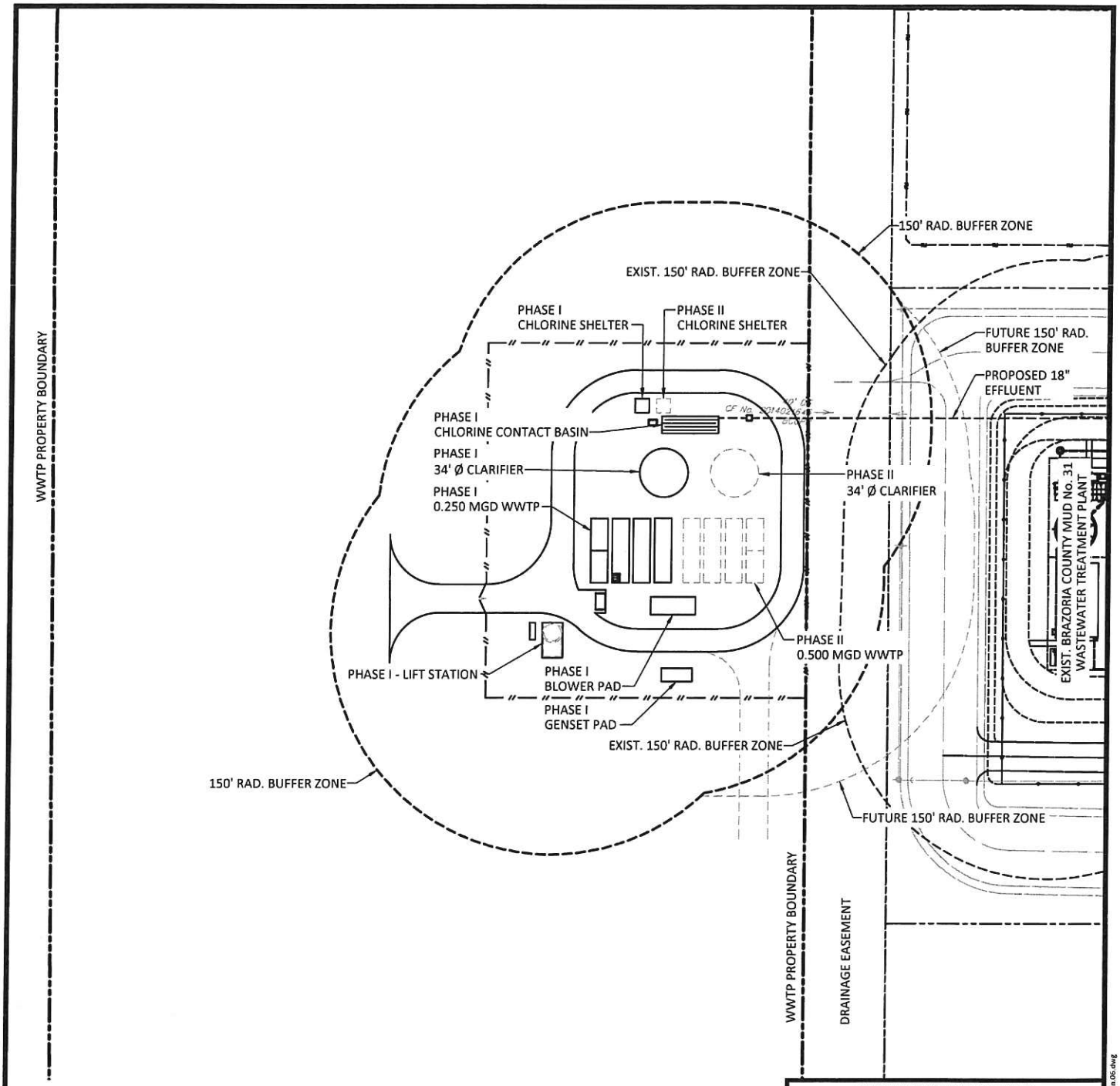
- **Domestic Technical Report 1.0, Section 6. Permit Specific Requirements**
  - **Subsection B. Buffer zones:** Want to clarify if Train No. 6 is labeled as Phase I in the Buffer Zone Map and if the Phase I would be for 0.25 MGD or as it is labeled for 0.24MGD? Would Phase II be another anticipated Interim phase and would it be for 0.50 MGD or as it is labeled for 0.48 MGD? Please provide an updated Buffer Zone Map if corrections are needed. Train 6 is labeled as Phase I on the new adjacent site. Please see correct Buffer Zone Map.
  - **Subsection C. Other actions required by the current permit:** Has the Other Requirements No. 7 been complied with for the 0.90 MGD phase? Other Requirement No. 7 states: "The permittee shall notify the TCEQ Regional Office (MC Region 12) and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five (45) days prior to the completion of the new facility on Notification of Completion Form 20007." Yes, since their monthly self-reporting forms are updated for 0.900 mgd, that would have had to occur.
- **Domestic Technical Report 1.1, Section 4. Design Calculations**
  - Please provide the Design Calculations for the Interim II phase (1.15 MGD). See attached Design & Loading Criteria Table. I have also included an updated Component sizing table. There was an error in the originally submitted one.

For the change in the discharge route, please submit an updated landowner map and updated Worksheet 2.0 to reflect the change, if needed. Has the transfer application been submitted for it to be applied to the draft permit or will it be after the permit has been issued? I will submit the updated landowner map, hopefully, tomorrow. We are currently working to get signatures on the Transfer Form.

Please provide this information by April 16, 2024, let me know if you have any questions. Thank you for your time and have a great day.

Miguel A. Mercado
Municipal Permits Team
Water Quality Division
Texas Commission on Environmental Quality
(512) 239-4547 | miguel.mercado@tceq.texas.gov

For status of permit, visit www.tceq.texas.gov/goto/cid.



WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO
TPDES PERMIT No. WQ0014546001

BUFFER ZONE MAP

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	**ADMIN.06**
SCALE: AS NOTED	
DATE: 4/4/2024	
JOB No.: 6040-23200	

N

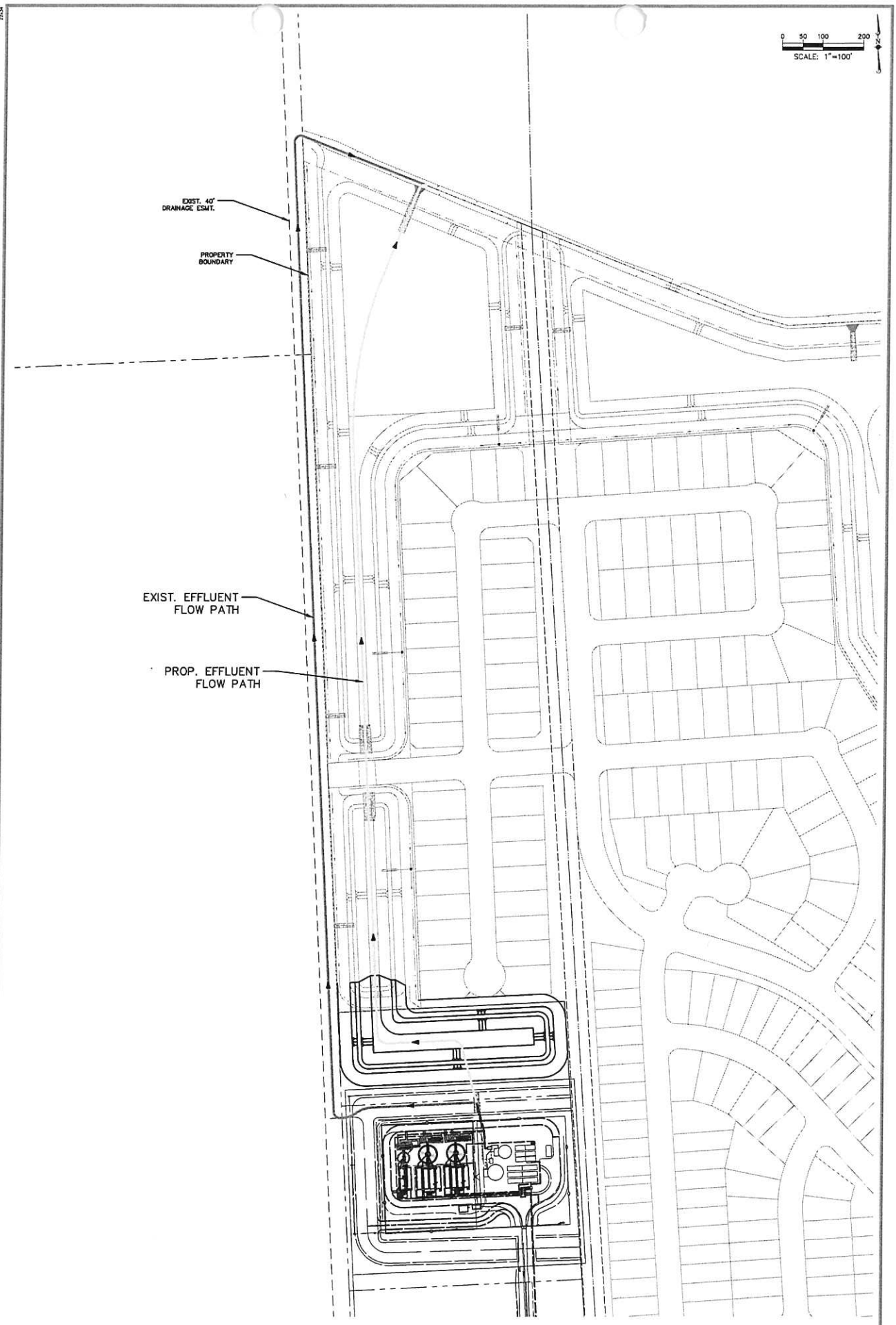
0 50 100

SCALE: 1" = 50'-0" (24"x36")
1" = 100'-0" (11"x17" 8.5"x11")

\\server\wei cad\current jobs\6040-23200 brazoria county mud no. 31 major amendment '23\wei current\admin.06.dwg

ATTACHMENT TECH.01-01
DESIGN & LOADING CRITERIA
BC MUD 31 TRAIN 6 WASTEWATER TREATMENT PLANT

Parameter	Train 6
INFLUENT CONDITIONS	
Average Daily Flow, gpd	**250,000**
Ratio Average/Peak Flow	4.00
Peak 2-Hour Flow, gpd	1,000,000
Peak 2-Hour Flow, gpm	694
BOD, mg/l	**250**
BOD, lb/day	521
ACTIVATED SLUDGE PROCESS	
Aeration Basin	
No. of Units	3
Aeration Length Provided, ft	45.0
Aeration Basin Width Provided, ft	12
SWD at Avg Daily Flow, ft	11.37
Total Aeration Volume, cu ft	18,419
BOD Load, #/1000 cu ft	**28.3**
Detention time, hrs	13.2
O2 Req'd @ 2.2 # O2/lb BOD, #/day	1,147
Correction Factor (Coarse Bubble)	0.65
Air Diffuser Eff., %	18.1%
Process Air Flow Rate, scfm	393
Mixing Air @ 20 scfm/1000 cu ft	368
Selected Air Supply Rate, scfm	393
Temperature Correction Factor for 30 deg F	1.27
Temperature Corrected Air Flow Rate, scfm	**499**
No. diffusers (24-inch wide SS band diffuser)	12.0
Air Flow per Diffuser, scfm	41.6
Air Supply, scfm/1000 cf	27
R.S. Airlift Air, scfm	38
Skimmer Airlift Air, scfm	5
CLARIFIER	
No. of clarifiers	1
Selected Clarifier Diameter, ft	**34**
Clarifier Wall Height, ft	14.00
Side Water Depth @ Qavg, ft	12.85
Total Area sq ft	908
Total Volume, cu ft	11,667
Total Volume, gallons	87,267
Avg. SOR, gpd/sq ft	275
Peak SOR, gpd/sq ft	**1,101**
Avg. Detention, hr	8.38
Peak Detention, hr	**2.1**
Max Qr @ 400 gpd/sf, gpm (each)	252
Max Qr @ 400 gpd/sf, gpd (each)	363,168
Max Qp + Qr, gpd (each)	1,363,168
CHLORINE CONTACT BASIN	
No. of chlorine basins	1
Proposed Length, ft	40.00
Proposed Width, ft	12.00
Proposed SWD, ft	7.73
Actual Volume, cu ft	3,710
Air Supply Required @ 15 scfm/1000 cu ft	56
Actual Detention @ Qp, minutes	39.97
AEROBIC DIGESTION/SLUDGE HOLDING	
No. of Units	2
Proposed Length, ft	22.5
Proposed Width, ft	12
Proposed SWD, ft	11.5
Volume Provided, cu ft	3,107
Volume Provided, gallons	23,240
Loading, cu ft/# BOD	6.0
Air Supply Rate, scfm/1000 cu ft	30
Total Air Supply, cfm	93.2
Air Flow per Diffuser, scfm	20
Minimum No. of diffusers	5
AIR BLOWERS	
Aeration Basin Air Supply, scfm	499
Aerobic Digester Air Supply, scfm	93
Chlorine Basin Air Supply, scfm	56
Return Sludge Airlift Air Supply, scfm	38
Skimmer Airlift Air Supply, scfm	5
Required Air Supply, cfm	690
No. of Blowers	2
Required Capacity, scfm	690
Blower Op Pressure, psi	5.96



WWTP EFFLUENT FLOW PATH

BRAZORIA COUNTY MUNICIPAL UTILITY DISTRICT NO. 31

June 22, 2023

ELEVATION land solutions

BRAZORIA COUNTY MUD 31 WWTP

EXISTING

Train 1:

3 – Aeration Basins	31' L x 12' W x 10.5' SWD (each)
1 – Clarifier	32' Diam x 10.5' SWD
3 – Digesters	21' L x 12' W x 10.5' SWD
1 – Chlorine Contact Basin	18' L x 10' W x 9.82' SWD

Train 2:

3 – Aeration Basins	38' L x 12' W x 10.5' SWD (each)
1 – Clarifier	38.33' Diam x 10.5' SWD
3 – Digesters	35' L x 12' W x 10.5' SWD (each)
1 – Chlorine Contact Basin	18' L x 10' W x 9.82' SWD

Train 3:

2 – Aeration Basins	52' L x 12' W x 10.5' SWD (each)
1 – Clarifier	45' Diam x 11.92' SWD
2 – Digesters	52' L x 12' W x 10.5' SWD (each)
1 – Chlorine Contact Basin	36' L x 12' W x 8.58' SWD

Train 4:

2 – Aeration Basins	52' L x 12' W x 10.5' SWD (each)
1 – Clarifier	45' Diam x 11.92' SWD
2 – Digesters	52' L x 12' W x 10.5' SWD (each)
1 – Chlorine Contact Basin	36' L x 12' W x 8.58' SWD

Train 5:

1 – Aeration Basin	52' L x 12' W x 10.5' SWD
1 – Clarifier	30' Diam x 11.92' SWD
1 – Digester	52' L x 12' W x 10.5' SWD
1 – Chlorine Contact Basin	36' L x 12' W x 8.58' SWD

PROPOSED ADDITION TO 1.150 MGD

Train 6:

3 – Aeration Basins	45' L x 12' W x 11.37' SWD (each)
1 – Clarifier	34' Diam x 12.85' SWD
2 – Digesters	22.5' L x 12' W x 11.5' SWD (each)
1 – Chlorine Contact Basin	40' L x 12' W x 7.73' SWD

FUTURE ADDITIONS WILL BE REPLICAS OF TRAIN 6

DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

Section 1. Domestic Drinking Water Supply (Instructions Page 73)

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 yes, provide the following:
Owner of the drinking water supply:

Distance and direction to the intake:

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

Attachment:

Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)

Does the facility discharge into tidally affected waters?

Yes ☐ No ☒

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:

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).

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).

Section 3. Classified Segments (Instructions Page 73)

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 75)

Name of the immediate receiving waters: Brazoria County MUD Detention Ponds

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

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

☒ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify:

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:

C. Downstream perennial confluences

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

West Fork Chocolate Bayou

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.

E. Normal dry weather characteristics

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

The BC MUD 31 is currently dry, but will likely have a wet bottom permanently.

Date and time of observation: September 27, 2023 @ 09:30

Was the water body influenced by stormwater runoff during observations?

Yes ☐ No ☒

Section 5. General Characteristics of the Waterbody (Instructions Page 74)

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

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation

☐ Domestic water supply ☐ Industrial water supply

☐ Park activities ☒ Other(s), specify unknown

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

Miguel Mercado

From: Miguel Mercado
Sent: Tuesday, March 26, 2024 3:48 PM
To: Shelley Young
Subject: WQ0014546001 - Brazoria County Municipal Utility District 31 Technical Review

Good afternoon Ms. Young,

My name is Miguel A. Mercado, I am the permit writer assigned to this application. Below are the items needed to complete my technical review:

Technical Report Data Completeness Review - Domestic Wastewater Permit Application

- **Domestic Technical Report 1.0, Section 2. Treatment Process**
  - **Subsection A. Treatment process description:** Need to verify if the plant still operates in the active sludge complete mix mode, as the fact sheet of the existing permit documents?
  - **Subsection B. Treatment units:** Would the Final phase add three replicas of Train No. 6? If that is the case, the Final phase will be at a total of 1.9 MGD; how will the 2.0 MGD be accomplished?
  - **Subsection C. Process flow diagrams:** The process flow diagram for Interim II and Final phases depicts the dechlorination occurring before the effluent from Train 1 - 5 are introduced for a combined dechlorination. If this is not accurate, please provide an updated process flow diagram.
- **Domestic Technical Report 1.0, Section 6. Permit Specific Requirements**
  - **Subsection B. Buffer zones:** Want to clarify if Train No. 6 is labeled as Phase I in the Buffer Zone Map and if the Phase I would be for 0.25 MGD or as it is labeled for 0.24MGD? Would Phase II be another anticipated Interim phase and would it be for 0.50 MGD or as it is labeled for 0.48 MGD? Please provide an updated Buffer Zone Map if corrections are needed.
  - **Subsection C. Other actions required by the current permit:** Has the Other Requirements No. 7 been complied with for the 0.90 MGD phase? Other Requirement No. 7 states: "The permittee shall notify the TCEQ Regional Office (MC Region 12) and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five (45) days prior to the completion of the new facility on Notification of Completion Form 20007."
- **Domestic Technical Report 1.1, Section 4. Design Calculations**
  - Please provide the Design Calculations for the Interim II phase (1.15 MGD).

For the change in the discharge route, please submit an updated landowner map and updated Worksheet 2.0 to reflect the change, if needed. Has the transfer application been submitted for it to be applied to the draft permit or will it be after the permit has been issued?

Please provide this information by April 16, 2024, let me know if you have any questions. Thank you for your time and have a great day.

Miguel A. Mercado
Municipal Permits Team

Water Quality Division
Texas Commission on Environmental Quality
(512) 239-4547 | miguel.mercado@tceq.texas.gov

For status of permit, visit www.tceq.texas.gov/goto/cid.

The TCEQ is committed to accessibility.
To request a more accessible version of this report, please contact the TCEQ Help Desk at (512) 239-4357.

Compliance History Report

Compliance History Report for CN602782195, RN104364096, Rating Year 2023 which includes Compliance History (CH) components from September 1, 2018, through August 31, 2023.

Customer, Respondent, or Owner/Operator:	CN602782195, Brazoria County Municipal Utility District 31	**Classification:** HIGH	**Rating:** 0.00
Regulated Entity:	RN104364096, BRAZORIA COUNTY MUD 31 WWTP	**Classification:** HIGH	**Rating:** 0.00
Complexity Points:	5	**Repeat Violator:** NO	
CH Group:	08 - Sewage Treatment Facilities		
Location:	Approx 5000 ft West of State Hwy 288, immediately North of County Road 57 BRAZORIA, TX, BRAZORIA COUNTY		
TCEQ Region:	REGION 12 - HOUSTON		

ID Number(s):
WASTEWATER PERMIT WQ0014546001 **WASTEWATER** EPA ID TX0126951

Compliance History Period: September 01, 2018 to August 31, 2023 **Rating Year:** 2023 **Rating Date:** 09/01/2023

Date Compliance History Report Prepared: January 29, 2024

Agency Decision Requiring Compliance History: Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.

Component Period Selected: December 01, 2018 to January 29, 2024

TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.

Name: PT **Phone:** (512) 239-3581

Site and Owner/Operator History:

1) Has the site been in existence and/or operation for the full five year compliance period? YES
2) Has there been a (known) change in ownership/operator of the site during the compliance period? NO

Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:
N/A

B. Criminal convictions:
N/A

C. Chronic excessive emissions events:
N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

Item 1	December 20, 2018	(1547207)
Item 2	January 19, 2019	(1565833)
Item 3	February 18, 2019	(1565831)
Item 4	March 20, 2019	(1565832)
Item 5	April 18, 2019	(1573859)
Item 6	May 20, 2019	(1587306)
Item 7	June 17, 2019	(1587307)
Item 8	July 19, 2019	(1595230)
Item 9	August 16, 2019	(1601495)
Item 10	September 18, 2019	(1608405)
Item 11	October 17, 2019	(1615277)

Item 12	November 19, 2019	(1621079)
Item 13	December 18, 2019	(1628419)
Item 14	January 20, 2020	(1636040)
Item 15	February 20, 2020	(1642663)
Item 16	March 20, 2020	(1649165)
Item 17	April 14, 2020	(1655529)
Item 18	May 19, 2020	(1662076)
Item 19	June 18, 2020	(1668616)
Item 20	July 17, 2020	(1675568)
Item 21	September 16, 2020	(1682342)
Item 22	September 18, 2020	(1688900)
Item 23	October 19, 2020	(1695269)
Item 24	November 18, 2020	(1718407)
Item 25	December 18, 2020	(1718408)
Item 26	January 15, 2021	(1718409)
Item 27	February 20, 2021	(1731465)
Item 28	March 19, 2021	(1731466)
Item 29	April 20, 2021	(1731467)
Item 30	May 21, 2021	(1743010)
Item 31	June 08, 2021	(1723527)
Item 32	June 16, 2021	(1743011)
Item 33	July 16, 2021	(1753653)
Item 34	August 19, 2021	(1759038)
Item 35	September 17, 2021	(1768407)
Item 36	October 20, 2021	(1779099)
Item 37	November 17, 2021	(1785590)
Item 38	December 18, 2021	(1792637)
Item 39	January 18, 2022	(1800475)
Item 40	February 15, 2022	(1808304)
Item 41	March 16, 2022	(1815353)
Item 42	April 18, 2022	(1821915)
Item 43	May 20, 2022	(1830817)
Item 44	June 17, 2022	(1837065)
Item 45	July 19, 2022	(1844249)
Item 46	August 18, 2022	(1850463)
Item 47	September 20, 2022	(1858180)
Item 48	October 20, 2022	(1864529)
Item 49	November 17, 2022	(1871438)
Item 50	December 20, 2022	(1877300)
Item 51	January 19, 2023	(1884107)
Item 52	February 20, 2023	(1891920)
Item 53	March 20, 2023	(1900493)
Item 54	April 19, 2023	(1907290)
Item 55	May 18, 2023	(1914441)
Item 56	June 20, 2023	(1921052)
Item 57	July 19, 2023	(1928034)
Item 58	August 17, 2023	(1934972)
Item 59	September 20, 2023	(1941190)
Item 60	October 20, 2023	(1947949)
Item 61	November 18, 2023	(1953636)

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

N/A

F. Environmental audits:

N/A

Compliance History Report for CN602782195, RN104364096, Rating Year 2023 which includes Compliance History (CH) components from December 01, 2018, through January 29, 2024.

G. Type of environmental management systems (EMSs):
N/A

H. Voluntary on-site compliance assessment dates:
N/A

I. Participation in a voluntary pollution reduction program:
N/A

J. Early compliance:
N/A

Sites Outside of Texas:
N/A

DMR DATA

WQ0014546001 - BRAZORIA COUNTY MUD 31

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure SINGGRAB (mg/L)	Reported Measure DAILY AV (lb/d)
TX0126951	11/30/2018	001A	BOD, carbonaceous [5 day, 20 C]	2.6	Not Received	3.5	5
TX0126951	12/31/2018	001A	BOD, carbonaceous [5 day, 20 C]	3	Not Received	4	6.7
TX0126951	1/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.4	Not Received	3.8	5.3
TX0126951	2/28/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.7	Not Received	3.1	5.9
TX0126951	3/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.7	Not Received	3.6	5.5
TX0126951	4/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	3.7	Not Received	4.4	7.1
TX0126951	5/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.8	Not Received	3.6	6.8
TX0126951	6/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.9	Not Received	3.9	6.7
TX0126951	7/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.3	Not Received	2.7	5.2
TX0126951	8/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.6	Not Received	3.8	4.8
TX0126951	9/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	3.1	Not Received	4.4	7.7
TX0126951	10/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	3.1	Not Received	3.4	6.7
TX0126951	11/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.9	Not Received	3.1	6.8
TX0126951	12/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.7	Not Received	4.7	5.8
TX0126951	1/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.7	Not Received	3.1	6
TX0126951	2/29/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.5	Not Received	2.8	5.1
TX0126951	3/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.5	Not Received	3.3	4.9
TX0126951	4/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.3	Not Received	2.7	5.3
TX0126951	5/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.1	Not Received	2.2	4.9
TX0126951	6/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.6	Not Received	3.5	6.9
TX0126951	7/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	3.5	Not Received	6.6	9.2
TX0126951	8/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.3	Not Received	2.7	5.4
TX0126951	9/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.9	Not Received	5	9.5
TX0126951	10/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.4	Not Received	3.1	5.3
TX0126951	11/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.2	Not Received	2.4	5.4
TX0126951	12/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.2	Not Received	2.5	6.2
TX0126951	1/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.4	Not Received	2.6	7.2
TX0126951	2/28/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.2	Not Received	2.5	6
TX0126951	3/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.4	Not Received	2.9	6.7
TX0126951	4/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.3	Not Received	2.9	6.8
TX0126951	5/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.5	Not Received	2.8	6.3
TX0126951	6/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.1	2.3	Not Received	5.8
TX0126951	7/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	3.5	5.9	Not Received	8.3
TX0126951	8/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2	2.1	Not Received	4.7
TX0126951	9/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.4	3.2	Not Received	5.4
TX0126951	10/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.3	2.8	Not Received	4.8
TX0126951	11/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.6	4.4	Not Received	5.8
TX0126951	12/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.3	3.2	Not Received	6
TX0126951	1/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.2	2.5	Not Received	5.3
TX0126951	2/28/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.6	3.7	Not Received	6.6
TX0126951	3/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.6	4.1	Not Received	5.6
TX0126951	4/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	3	3.9	Not Received	7.8
TX0126951	5/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.8	3.8	Not Received	7.9
TX0126951	6/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.7	4.1	Not Received	7.3
TX0126951	7/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.5	3	Not Received	5.6
TX0126951	8/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.6	3.9	Not Received	8.1
TX0126951	9/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.1	2.4	Not Received	5.8
TX0126951	10/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.6	3.1	Not Received	6.8
TX0126951	11/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.4	2.7	Not Received	6.8
TX0126951	12/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.5	4.3	Not Received	7
TX0126951	1/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.5	3	Not Received	6.3
TX0126951	2/28/2023	001A	BOD, carbonaceous [5 day, 20 C]	2	2	Not Received	5
TX0126951	3/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.4	2.9	Not Received	5.3
TX0126951	4/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	2	2	Not Received	4.5
TX0126951	5/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2	2	Not Received	4.7
TX0126951	6/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	3.5	4.7	Not Received	8.8
TX0126951	7/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	3.5	4.7	Not Received	9.7
TX0126951	8/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.1	2.3	Not Received	5.7
TX0126951	9/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.7	4.2	Not Received	7.4
TX0126951	10/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.1	2.2	Not Received	6.7
TX0126951	11/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.5	3.5	Not Received	8.7
			2 YEAR AVERAGE	2.51	3.30	Not Received	6.61
			5 YEAR AVERAGE	2.57	3.30	3.41	6.35

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO MIN (mg/L)	Reported Measure MO MAX (mg/L)
TX0126951	11/30/2018	001A	Chlorine, total residual	1.18	3.53
TX0126951	12/31/2018	001A	Chlorine, total residual	1.52	3.35
TX0126951	1/31/2019	001A	Chlorine, total residual	1.12	3.74
TX0126951	2/28/2019	001A	Chlorine, total residual	1.03	3.53

TX0126951	3/31/2019	001A	Chlorine, total residual	1.04	3.43
TX0126951	4/30/2019	001A	Chlorine, total residual	1.03	3.73
TX0126951	5/31/2019	001A	Chlorine, total residual	1.12	3.74
TX0126951	6/30/2019	001A	Chlorine, total residual	1.44	3.03
TX0126951	7/31/2019	001A	Chlorine, total residual	1.26	3.04
TX0126951	8/31/2019	001A	Chlorine, total residual	1.05	3.83
TX0126951	9/30/2019	001A	Chlorine, total residual	1.16	3.64
TX0126951	10/31/2019	001A	Chlorine, total residual	1.24	3.34
TX0126951	11/30/2019	001A	Chlorine, total residual	1.24	3.74
TX0126951	12/31/2019	001A	Chlorine, total residual	1.25	3.35
TX0126951	1/31/2020	001A	Chlorine, total residual	1.32	3.33
TX0126951	2/29/2020	001A	Chlorine, total residual	1.33	3.26
TX0126951	3/31/2020	001A	Chlorine, total residual	1.29	3.14
TX0126951	4/30/2020	001A	Chlorine, total residual	1.24	2.84
TX0126951	5/31/2020	001A	Chlorine, total residual	1.23	3.52
TX0126951	6/30/2020	001A	Chlorine, total residual	1.26	3.41
TX0126951	7/31/2020	001A	Chlorine, total residual	1.75	3.34
TX0126951	8/31/2020	001A	Chlorine, total residual	1.41	3.14
TX0126951	9/30/2020	001A	Chlorine, total residual	1.04	3.81
TX0126951	10/31/2020	001A	Chlorine, total residual	1.45	3.23
TX0126951	11/30/2020	001A	Chlorine, total residual	1.13	2.62
TX0126951	12/31/2020	001A	Chlorine, total residual	1.13	3.21
TX0126951	1/31/2021	001A	Chlorine, total residual	1.23	3.74
TX0126951	2/28/2021	001A	Chlorine, total residual	2.06	3.54
TX0126951	3/31/2021	001A	Chlorine, total residual	1.08	3.04
TX0126951	4/30/2021	001A	Chlorine, total residual	1.5	2.12
TX0126951	5/31/2021	001A	Chlorine, total residual	1.01	2.31
TX0126951	6/30/2021	001A	Chlorine, total residual	1.02	1.98
TX0126951	7/31/2021	001A	Chlorine, total residual	1.27	3.2
TX0126951	8/31/2021	001A	Chlorine, total residual	1	2.51
TX0126951	9/30/2021	001A	Chlorine, total residual	1.05	2.58
TX0126951	10/31/2021	001A	Chlorine, total residual	1.54	2.21
TX0126951	11/30/2021	001A	Chlorine, total residual	1.73	2.44
TX0126951	12/31/2021	001A	Chlorine, total residual	1.82	3.21
TX0126951	1/31/2022	001A	Chlorine, total residual	1.91	2.94
TX0126951	2/28/2022	001A	Chlorine, total residual	1.7	2.72
TX0126951	3/31/2022	001A	Chlorine, total residual	1.34	2.51
TX0126951	4/30/2022	001A	Chlorine, total residual	1.78	2.83
TX0126951	5/31/2022	001A	Chlorine, total residual	1.51	2.83
TX0126951	6/30/2022	001A	Chlorine, total residual	1.29	3.3
TX0126951	7/31/2022	001A	Chlorine, total residual	1.22	3.83
TX0126951	8/31/2022	001A	Chlorine, total residual	1.36	3.88
TX0126951	9/30/2022	001A	Chlorine, total residual	1.24	3.72
TX0126951	10/31/2022	001A	Chlorine, total residual	1.03	3.11
TX0126951	11/30/2022	001A	Chlorine, total residual	1.54	3.22
TX0126951	12/31/2022	001A	Chlorine, total residual	1.29	2.45
TX0126951	1/31/2023	001A	Chlorine, total residual	1.18	3.04
TX0126951	2/28/2023	001A	Chlorine, total residual	1.2	2.91
TX0126951	3/31/2023	001A	Chlorine, total residual	1.23	2.55
TX0126951	4/30/2023	001A	Chlorine, total residual	1	3.33
TX0126951	5/31/2023	001A	Chlorine, total residual	1.01	3.99
TX0126951	6/30/2023	001A	Chlorine, total residual	1.36	2.5
TX0126951	7/31/2023	001A	Chlorine, total residual	1.11	3.41
TX0126951	8/31/2023	001A	Chlorine, total residual	1.08	3.74
TX0126951	9/30/2023	001A	Chlorine, total residual	1.64	3.3
TX0126951	10/31/2023	001A	Chlorine, total residual	1.47	3.21
TX0126951	11/30/2023	001A	Chlorine, total residual	1.23	2.98
			2 YEAR AVERAGE	1.37	3.12
			5 YEAR AVERAGE	1.30	3.16

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (CFU/100m	Reported Measure DAILY MX (CFU/100m	Reported Measure SINGGRAB (CFU/100mL)
TX0126951	11/30/2018	001A	E. coli	<1	Not Received	<1
TX0126951	12/31/2018	001A	E. coli	1	Not Received	2
TX0126951	1/31/2019	001A	E. coli	<1	Not Received	<1
TX0126951	2/28/2019	001A	E. coli	1	Not Received	2
TX0126951	3/31/2019	001A	E. coli	2	Not Received	3
TX0126951	4/30/2019	001A	E. coli	<1	Not Received	<1
TX0126951	5/31/2019	001A	E. coli	<1	Not Received	<1
TX0126951	6/30/2019	001A	E. coli	1	Not Received	<1
TX0126951	7/31/2019	001A	E. coli	1	Not Received	<1
TX0126951	8/31/2019	001A	E. coli	1	Not Received	<1
TX0126951	9/30/2019	001A	E. coli	1	Not Received	<1
TX0126951	10/31/2019	001A	E. coli	1	Not Received	<1
TX0126951	11/30/2019	001A	E. coli	1	Not Received	<1
TX0126951	12/31/2019	001A	E. coli	<1	Not Received	<1
TX0126951	1/31/2020	001A	E. coli	<1	Not Received	<1
TX0126951	2/29/2020	001A	E. coli	1	Not Received	1
TX0126951	3/31/2020	001A	E. coli	<1	Not Received	<1
TX0126951	4/30/2020	001A	E. coli	<1	Not Received	<1
TX0126951	5/31/2020	001A	E. coli	1	Not Received	2
TX0126951	6/30/2020	001A	E. coli	<1	Not Received	<1

TX0126951	7/31/2020	001A	E. coli	<1	Not Received	<1
TX0126951	8/31/2020	001A	E. coli	1	Not Received	2
TX0126951	9/30/2020	001A	E. coli	1	Not Received	<1
TX0126951	10/31/2020	001A	E. coli	1	Not Received	2
TX0126951	11/30/2020	001A	E. coli	1	Not Received	<1
TX0126951	12/31/2020	001A	E. coli	1	Not Received	<1
TX0126951	1/31/2021	001A	E. coli	1	Not Received	<1
TX0126951	2/28/2021	001A	E. coli	<1	Not Received	<1
TX0126951	3/31/2021	001A	E. coli	<1	Not Received	<1
TX0126951	4/30/2021	001A	E. coli	1	Not Received	<1
TX0126951	5/31/2021	001A	E. coli	1	Not Received	<1
TX0126951	6/30/2021	001A	E. coli	1	<1	Not Received
TX0126951	7/31/2021	001A	E. coli	1	2	Not Received
TX0126951	8/31/2021	001A	E. coli	1	<1	Not Received
TX0126951	9/30/2021	001A	E. coli	1	<1	Not Received
TX0126951	10/31/2021	001A	E. coli	1	<1	Not Received
TX0126951	11/30/2021	001A	E. coli	1	<1	Not Received
TX0126951	12/31/2021	001A	E. coli	1	<2	Not Received
TX0126951	1/31/2022	001A	E. coli	1	<2	Not Received
TX0126951	2/28/2022	001A	E. coli	1	<1	Not Received
TX0126951	3/31/2022	001A	E. coli	1	<1	Not Received
TX0126951	4/30/2022	001A	E. coli	<1	<1	Not Received
TX0126951	5/31/2022	001A	E. coli	1	2	Not Received
TX0126951	6/30/2022	001A	E. coli	<1	<1	Not Received
TX0126951	7/31/2022	001A	E. coli	<1	<1	Not Received
TX0126951	8/31/2022	001A	E. coli	<1	<1	Not Received
TX0126951	9/30/2022	001A	E. coli	<1	<1	Not Received
TX0126951	10/31/2022	001A	E. coli	<1	<1	Not Received
TX0126951	11/30/2022	001A	E. coli	1	2	Not Received
TX0126951	12/31/2022	001A	E. coli	<1	<1	Not Received
TX0126951	1/31/2023	001A	E. coli	1	2	Not Received
TX0126951	2/28/2023	001A	E. coli	<1	<1	Not Received
TX0126951	3/31/2023	001A	E. coli	<1	<1	Not Received
TX0126951	4/30/2023	001A	E. coli	<1	<1	Not Received
TX0126951	5/31/2023	001A	E. coli	<1	<1	Not Received
TX0126951	6/30/2023	001A	E. coli	<1	<1	Not Received
TX0126951	7/31/2023	001A	E. coli	<1	<1	Not Received
TX0126951	8/31/2023	001A	E. coli	<1	<1	Not Received
TX0126951	9/30/2023	001A	E. coli	<1	<1	Not Received
TX0126951	10/31/2023	001A	E. coli	<1	<1	Not Received
TX0126951	11/30/2023	001A	E. coli	1	1	Not Received
			2 YEAR GEOMEAN	1.00	1.15	Not Received
			5 YEAR GEOMEAN	1.01	1.15	1.16

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (MGD)	Reported Measure DAILY MX (MGD)
TX0126951	11/30/2018	001A	Flow, in conduit or thru treatment plant	0.257	0.350
TX0126951	12/31/2018	001A	Flow, in conduit or thru treatment plant	0.268	0.385
TX0126951	1/31/2019	001A	Flow, in conduit or thru treatment plant	0.274	0.475
TX0126951	2/28/2019	001A	Flow, in conduit or thru treatment plant	0.256	0.407
TX0126951	3/31/2019	001A	Flow, in conduit or thru treatment plant	0.240	0.274
TX0126951	4/30/2019	001A	Flow, in conduit or thru treatment plant	0.252	0.330
TX0126951	5/31/2019	001A	Flow, in conduit or thru treatment plant	0.294	0.670
TX0126951	6/30/2019	001A	Flow, in conduit or thru treatment plant	0.293	0.678
TX0126951	7/31/2019	001A	Flow, in conduit or thru treatment plant	0.264	0.326
TX0126951	8/31/2019	001A	Flow, in conduit or thru treatment plant	0.269	0.366
TX0126951	9/30/2019	001A	Flow, in conduit or thru treatment plant	0.280	0.628
TX0126951	10/31/2019	001A	Flow, in conduit or thru treatment plant	0.247	0.374
TX0126951	11/30/2019	001A	Flow, in conduit or thru treatment plant	0.250	0.364
TX0126951	12/31/2019	001A	Flow, in conduit or thru treatment plant	0.241	0.340
TX0126951	1/31/2020	001A	Flow, in conduit or thru treatment plant	0.270	0.384
TX0126951	2/29/2020	001A	Flow, in conduit or thru treatment plant	0.247	0.440
TX0126951	3/31/2020	001A	Flow, in conduit or thru treatment plant	0.251	0.297
TX0126951	4/30/2020	001A	Flow, in conduit or thru treatment plant	0.279	0.329
TX0126951	5/31/2020	001A	Flow, in conduit or thru treatment plant	0.296	0.352
TX0126951	6/30/2020	001A	Flow, in conduit or thru treatment plant	0.292	0.415
TX0126951	7/31/2020	001A	Flow, in conduit or thru treatment plant	0.330	0.496
TX0126951	8/31/2020	001A	Flow, in conduit or thru treatment plant	0.305	0.397
TX0126951	9/30/2020	001A	Flow, in conduit or thru treatment plant	0.357	1.100
TX0126951	10/31/2020	001A	Flow, in conduit or thru treatment plant	0.276	0.302
TX0126951	11/30/2020	001A	Flow, in conduit or thru treatment plant	0.313	0.534
TX0126951	12/31/2020	001A	Flow, in conduit or thru treatment plant	0.378	0.514
TX0126951	1/31/2021	001A	Flow, in conduit or thru treatment plant	0.368	0.455
TX0126951	2/28/2021	001A	Flow, in conduit or thru treatment plant	0.309	0.386
TX0126951	3/31/2021	001A	Flow, in conduit or thru treatment plant	0.321	0.381
TX0126951	4/30/2021	001A	Flow, in conduit or thru treatment plant	0.340	0.469
TX0126951	5/31/2021	001A	Flow, in conduit or thru treatment plant	0.302	0.519
TX0126951	6/30/2021	001A	Flow, in conduit or thru treatment plant	0.288	0.482
TX0126951	7/31/2021	001A	Flow, in conduit or thru treatment plant	0.290	0.414
TX0126951	8/31/2021	001A	Flow, in conduit or thru treatment plant	0.283	0.390
TX0126951	9/30/2021	001A	Flow, in conduit or thru treatment plant	0.284	0.435
TX0126951	10/31/2021	001A	Flow, in conduit or thru treatment plant	0.291	0.411

TX0126951	11/30/2021	001A	Flow, in conduit or thru treatment plant	0.275	0.384
TX0126951	12/31/2021	001A	Flow, in conduit or thru treatment plant	0.304	0.492
TX0126951	1/31/2022	001A	Flow, in conduit or thru treatment plant	0.324	0.668
TX0126951	2/28/2022	001A	Flow, in conduit or thru treatment plant	0.341	0.566
TX0126951	3/31/2022	001A	Flow, in conduit or thru treatment plant	0.317	0.590
TX0126951	4/30/2022	001A	Flow, in conduit or thru treatment plant	0.333	0.570
TX0126951	5/31/2022	001A	Flow, in conduit or thru treatment plant	0.339	0.444
TX0126951	6/30/2022	001A	Flow, in conduit or thru treatment plant	0.322	0.383
TX0126951	7/31/2022	001A	Flow, in conduit or thru treatment plant	0.302	0.363
TX0126951	8/31/2022	001A	Flow, in conduit or thru treatment plant	0.365	0.643
TX0126951	9/30/2022	001A	Flow, in conduit or thru treatment plant	0.341	0.487
TX0126951	10/31/2022	001A	Flow, in conduit or thru treatment plant	0.313	0.404
TX0126951	11/30/2022	001A	Flow, in conduit or thru treatment plant	0.387	0.700
TX0126951	12/31/2022	001A	Flow, in conduit or thru treatment plant	0.339	0.490
TX0126951	1/31/2023	001A	Flow, in conduit or thru treatment plant	0.330	0.526
TX0126951	2/28/2023	001A	Flow, in conduit or thru treatment plant	0.309	0.419
TX0126951	3/31/2023	001A	Flow, in conduit or thru treatment plant	0.308	0.522
TX0126951	4/30/2023	001A	Flow, in conduit or thru treatment plant	0.295	0.461
TX0126951	5/31/2023	001A	Flow, in conduit or thru treatment plant	0.326	0.596
TX0126951	6/30/2023	001A	Flow, in conduit or thru treatment plant	0.329	0.516
TX0126951	7/31/2023	001A	Flow, in conduit or thru treatment plant	0.326	0.439
TX0126951	8/31/2023	001A	Flow, in conduit or thru treatment plant	0.343	0.441
TX0126951	9/30/2023	001A	Flow, in conduit or thru treatment plant	0.343	0.461
TX0126951	10/31/2023	001A	Flow, in conduit or thru treatment plant	0.375	1.086
TX0126951	11/30/2023	001A	Flow, in conduit or thru treatment plant	0.363	0.627
			2 YEAR AVERAGE	0.330	0.531
			5 YEAR AVERAGE	0.305	0.478

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure SINGGRAB (mg/L)	Reported Measure DAILY AV (lb/d)
TX0126951	11/30/2018	001A	Nitrogen, ammonia total [as N]	0.14	Not Received	0.21	0.27
TX0126951	12/31/2018	001A	Nitrogen, ammonia total [as N]	0.68	Not Received	2.28	2.02
TX0126951	1/31/2019	001A	Nitrogen, ammonia total [as N]	0.76	Not Received	1.81	1.93
TX0126951	2/28/2019	001A	Nitrogen, ammonia total [as N]	0.19	Not Received	0.44	0.41
TX0126951	3/31/2019	001A	Nitrogen, ammonia total [as N]	0.15	Not Received	0.24	0.3
TX0126951	4/30/2019	001A	Nitrogen, ammonia total [as N]	0.22	Not Received	0.44	0.44
TX0126951	5/31/2019	001A	Nitrogen, ammonia total [as N]	0.18	Not Received	0.49	0.6
TX0126951	6/30/2019	001A	Nitrogen, ammonia total [as N]	0.15	Not Received	0.2	0.35
TX0126951	7/31/2019	001A	Nitrogen, ammonia total [as N]	0.22	Not Received	0.29	0.51
TX0126951	8/31/2019	001A	Nitrogen, ammonia total [as N]	0.2	Not Received	0.2	0.38
TX0126951	9/30/2019	001A	Nitrogen, ammonia total [as N]	0.18	Not Received	0.2	0.44
TX0126951	10/31/2019	001A	Nitrogen, ammonia total [as N]	0.19	Not Received	0.2	0.43
TX0126951	11/30/2019	001A	Nitrogen, ammonia total [as N]	0.2	Not Received	0.2	0.48
TX0126951	12/31/2019	001A	Nitrogen, ammonia total [as N]	0.25	Not Received	0.36	0.53
TX0126951	1/31/2020	001A	Nitrogen, ammonia total [as N]	0.22	Not Received	0.32	0.51
TX0126951	2/29/2020	001A	Nitrogen, ammonia total [as N]	0.2	Not Received	0.2	0.42
TX0126951	3/31/2020	001A	Nitrogen, ammonia total [as N]	0.2	Not Received	0.2	0.4
TX0126951	4/30/2020	001A	Nitrogen, ammonia total [as N]	0.2	Not Received	0.2	0.45
TX0126951	5/31/2020	001A	Nitrogen, ammonia total [as N]	0.22	Not Received	0.27	0.51
TX0126951	6/30/2020	001A	Nitrogen, ammonia total [as N]	0.2	Not Received	0.2	0.51
TX0126951	7/31/2020	001A	Nitrogen, ammonia total [as N]	0.87	Not Received	3.56	2.21
TX0126951	8/31/2020	001A	Nitrogen, ammonia total [as N]	0.25	Not Received	0.31	0.59
TX0126951	9/30/2020	001A	Nitrogen, ammonia total [as N]	0.2	Not Received	0.2	0.61
TX0126951	10/31/2020	001A	Nitrogen, ammonia total [as N]	0.2	Not Received	0.2	0.44
TX0126951	11/30/2020	001A	Nitrogen, ammonia total [as N]	0.26	Not Received	0.45	0.64
TX0126951	12/31/2020	001A	Nitrogen, ammonia total [as N]	0.2	Not Received	0.2	0.57
TX0126951	1/31/2021	001A	Nitrogen, ammonia total [as N]	0.27	Not Received	0.41	0.82
TX0126951	2/28/2021	001A	Nitrogen, ammonia total [as N]	0.26	Not Received	0.3	0.69
TX0126951	3/31/2021	001A	Nitrogen, ammonia total [as N]	0.25	Not Received	0.39	0.7
TX0126951	4/30/2021	001A	Nitrogen, ammonia total [as N]	1.52	Not Received	4.9	4.37
TX0126951	5/31/2021	001A	Nitrogen, ammonia total [as N]	0.49	Not Received	1.18	1.12
TX0126951	6/30/2021	001A	Nitrogen, ammonia total [as N]	0.58	1.1	Not Received	1.61
TX0126951	7/31/2021	001A	Nitrogen, ammonia total [as N]	0.63	1.62	Not Received	1.49
TX0126951	8/31/2021	001A	Nitrogen, ammonia total [as N]	0.52	0.89	Not Received	1.16
TX0126951	9/30/2021	001A	Nitrogen, ammonia total [as N]	0.91	2.59	Not Received	1.95
TX0126951	10/31/2021	001A	Nitrogen, ammonia total [as N]	0.53	1.05	Not Received	1.01
TX0126951	11/30/2021	001A	Nitrogen, ammonia total [as N]	0.39	0.61	Not Received	0.83
TX0126951	12/31/2021	001A	Nitrogen, ammonia total [as N]	0.31	0.52	Not Received	0.8
TX0126951	1/31/2022	001A	Nitrogen, ammonia total [as N]	0.31	0.38	Not Received	0.73
TX0126951	2/28/2022	001A	Nitrogen, ammonia total [as N]	0.27	0.39	Not Received	0.79
TX0126951	3/31/2022	001A	Nitrogen, ammonia total [as N]	0.31	0.42	Not Received	0.67
TX0126951	4/30/2022	001A	Nitrogen, ammonia total [as N]	0.27	0.47	Not Received	0.74
TX0126951	5/31/2022	001A	Nitrogen, ammonia total [as N]	0.2	0.2	Not Received	0.56
TX0126951	6/30/2022	001A	Nitrogen, ammonia total [as N]	0.2	0.2	Not Received	0.53
TX0126951	7/31/2022	001A	Nitrogen, ammonia total [as N]	0.27	0.48	Not Received	0.6
TX0126951	8/31/2022	001A	Nitrogen, ammonia total [as N]	0.23	0.32	Not Received	0.77
TX0126951	9/30/2022	001A	Nitrogen, ammonia total [as N]	0.32	0.37	Not Received	0.88
TX0126951	10/31/2022	001A	Nitrogen, ammonia total [as N]	0.25	0.31	Not Received	0.67
TX0126951	11/30/2022	001A	Nitrogen, ammonia total [as N]	0.3	0.36	Not Received	0.9
TX0126951	12/31/2022	001A	Nitrogen, ammonia total [as N]	0.22	0.27	Not Received	0.6
TX0126951	1/31/2023	001A	Nitrogen, ammonia total [as N]	1.49	4.04	Not Received	3.86
TX0126951	2/28/2023	001A	Nitrogen, ammonia total [as N]	0.29	0.38	Not Received	0.74

TX0126951	3/31/2023	001A	Nitrogen, ammonia total [as N]	0.3	0.47	Not Received	0.71
TX0126951	4/30/2023	001A	Nitrogen, ammonia total [as N]	0.34	0.42	Not Received	0.78
TX0126951	5/31/2023	001A	Nitrogen, ammonia total [as N]	0.29	0.4	Not Received	0.68
TX0126951	6/30/2023	001A	Nitrogen, ammonia total [as N]	0.75	2.77	Not Received	1.99
TX0126951	7/31/2023	001A	Nitrogen, ammonia total [as N]	0.2	0.2	Not Received	0.55
TX0126951	8/31/2023	001A	Nitrogen, ammonia total [as N]	<.2	<.2	Not Received	<.55
TX0126951	9/30/2023	001A	Nitrogen, ammonia total [as N]	0.23	0.3	Not Received	0.63
TX0126951	10/31/2023	001A	Nitrogen, ammonia total [as N]	<.2	<.2	Not Received	<.64
TX0126951	11/30/2023	001A	Nitrogen, ammonia total [as N]	0.33	0.85	Not Received	1.07
			2 YEAR AVERAGE	0.34	0.62	Not Received	0.89
			5 YEAR AVERAGE	0.35	0.76	0.68	0.89

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO MIN (mg/L)
TX0126951	11/30/2018	001A	Oxygen, dissolved [DO]	7.1
TX0126951	12/31/2018	001A	Oxygen, dissolved [DO]	7.08
TX0126951	1/31/2019	001A	Oxygen, dissolved [DO]	7.02
TX0126951	2/28/2019	001A	Oxygen, dissolved [DO]	7.11
TX0126951	3/31/2019	001A	Oxygen, dissolved [DO]	7.09
TX0126951	4/30/2019	001A	Oxygen, dissolved [DO]	7.22
TX0126951	5/31/2019	001A	Oxygen, dissolved [DO]	7.26
TX0126951	6/30/2019	001A	Oxygen, dissolved [DO]	7.22
TX0126951	7/31/2019	001A	Oxygen, dissolved [DO]	7.11
TX0126951	8/31/2019	001A	Oxygen, dissolved [DO]	7.09
TX0126951	9/30/2019	001A	Oxygen, dissolved [DO]	7.24
TX0126951	10/31/2019	001A	Oxygen, dissolved [DO]	7.19
TX0126951	11/30/2019	001A	Oxygen, dissolved [DO]	7.11
TX0126951	12/31/2019	001A	Oxygen, dissolved [DO]	7.09
TX0126951	1/31/2020	001A	Oxygen, dissolved [DO]	7.28
TX0126951	2/29/2020	001A	Oxygen, dissolved [DO]	7.19
TX0126951	3/31/2020	001A	Oxygen, dissolved [DO]	7.18
TX0126951	4/30/2020	001A	Oxygen, dissolved [DO]	7.19
TX0126951	5/31/2020	001A	Oxygen, dissolved [DO]	7.17
TX0126951	6/30/2020	001A	Oxygen, dissolved [DO]	7.19
TX0126951	7/31/2020	001A	Oxygen, dissolved [DO]	7.09
TX0126951	8/31/2020	001A	Oxygen, dissolved [DO]	6.78
TX0126951	9/30/2020	001A	Oxygen, dissolved [DO]	7.25
TX0126951	10/31/2020	001A	Oxygen, dissolved [DO]	7.08
TX0126951	11/30/2020	001A	Oxygen, dissolved [DO]	7.12
TX0126951	12/31/2020	001A	Oxygen, dissolved [DO]	7.27
TX0126951	1/31/2021	001A	Oxygen, dissolved [DO]	6.92
TX0126951	2/28/2021	001A	Oxygen, dissolved [DO]	6.71
TX0126951	3/31/2021	001A	Oxygen, dissolved [DO]	6.88
TX0126951	4/30/2021	001A	Oxygen, dissolved [DO]	7.08
TX0126951	5/31/2021	001A	Oxygen, dissolved [DO]	7.22
TX0126951	6/30/2021	001A	Oxygen, dissolved [DO]	6.88
TX0126951	7/31/2021	001A	Oxygen, dissolved [DO]	6.87
TX0126951	8/31/2021	001A	Oxygen, dissolved [DO]	6.98
TX0126951	9/30/2021	001A	Oxygen, dissolved [DO]	6.74
TX0126951	10/31/2021	001A	Oxygen, dissolved [DO]	6.84
TX0126951	11/30/2021	001A	Oxygen, dissolved [DO]	6.8
TX0126951	12/31/2021	001A	Oxygen, dissolved [DO]	6.83
TX0126951	1/31/2022	001A	Oxygen, dissolved [DO]	6.74
TX0126951	2/28/2022	001A	Oxygen, dissolved [DO]	6.71
TX0126951	3/31/2022	001A	Oxygen, dissolved [DO]	6.94
TX0126951	4/30/2022	001A	Oxygen, dissolved [DO]	6.98
TX0126951	5/31/2022	001A	Oxygen, dissolved [DO]	6.74
TX0126951	6/30/2022	001A	Oxygen, dissolved [DO]	7.01
TX0126951	7/31/2022	001A	Oxygen, dissolved [DO]	6.88
TX0126951	8/31/2022	001A	Oxygen, dissolved [DO]	6.87
TX0126951	9/30/2022	001A	Oxygen, dissolved [DO]	6.86
TX0126951	10/31/2022	001A	Oxygen, dissolved [DO]	6.91
TX0126951	11/30/2022	001A	Oxygen, dissolved [DO]	6.94
TX0126951	12/31/2022	001A	Oxygen, dissolved [DO]	6.86
TX0126951	1/31/2023	001A	Oxygen, dissolved [DO]	6.89
TX0126951	2/28/2023	001A	Oxygen, dissolved [DO]	6.87
TX0126951	3/31/2023	001A	Oxygen, dissolved [DO]	6.83
TX0126951	4/30/2023	001A	Oxygen, dissolved [DO]	6.86
TX0126951	5/31/2023	001A	Oxygen, dissolved [DO]	6.9
TX0126951	6/30/2023	001A	Oxygen, dissolved [DO]	6.88
TX0126951	7/31/2023	001A	Oxygen, dissolved [DO]	6.92
TX0126951	8/31/2023	001A	Oxygen, dissolved [DO]	6.89
TX0126951	9/30/2023	001A	Oxygen, dissolved [DO]	6.88
TX0126951	10/31/2023	001A	Oxygen, dissolved [DO]	6.91
TX0126951	11/30/2023	001A	Oxygen, dissolved [DO]	6.86
			2 YEAR AVERAGE	6.87
			5 YEAR AVERAGE	6.99

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MINIMUM (SU)	Reported Measure MAXIMUM (SU)
TX0126951	11/30/2018	001A	pH	7.12	7.22

TX0126951	12/31/2018	001A	pH	7	7.24
TX0126951	1/31/2019	001A	pH	7.12	7.26
TX0126951	2/28/2019	001A	pH	7.16	7.25
TX0126951	3/31/2019	001A	pH	7.18	7.22
TX0126951	4/30/2019	001A	pH	7.16	7.17
TX0126951	5/31/2019	001A	pH	7.15	7.22
TX0126951	6/30/2019	001A	pH	7.14	7.19
TX0126951	7/31/2019	001A	pH	7.17	7.22
TX0126951	8/31/2019	001A	pH	7.15	7.22
TX0126951	9/30/2019	001A	pH	7.14	7.21
TX0126951	10/31/2019	001A	pH	7	7.17
TX0126951	11/30/2019	001A	pH	7.18	7.25
TX0126951	12/31/2019	001A	pH	7.12	7.21
TX0126951	1/31/2020	001A	pH	7.11	7.24
TX0126951	2/29/2020	001A	pH	7.14	7.23
TX0126951	3/31/2020	001A	pH	7.1	7.24
TX0126951	4/30/2020	001A	pH	7.13	7.22
TX0126951	5/31/2020	001A	pH	7.17	7.22
TX0126951	6/30/2020	001A	pH	7	7.23
TX0126951	7/31/2020	001A	pH	7	7.32
TX0126951	8/31/2020	001A	pH	7	7.38
TX0126951	9/30/2020	001A	pH	7.12	7.14
TX0126951	10/31/2020	001A	pH	7.16	7.38
TX0126951	11/30/2020	001A	pH	7.21	7.25
TX0126951	12/31/2020	001A	pH	7.16	7.25
TX0126951	1/31/2021	001A	pH	7.21	7.31
TX0126951	2/28/2021	001A	pH	7	7.28
TX0126951	3/31/2021	001A	pH	7.15	7.24
TX0126951	4/30/2021	001A	pH	7.16	7.34
TX0126951	5/31/2021	001A	pH	7.1	7.23
TX0126951	6/30/2021	001A	pH	7.13	7.25
TX0126951	7/31/2021	001A	pH	7.16	7.36
TX0126951	8/31/2021	001A	pH	7.13	7.22
TX0126951	9/30/2021	001A	pH	7.1	7.26
TX0126951	10/31/2021	001A	pH	6.98	7.24
TX0126951	11/30/2021	001A	pH	7.11	7.21
TX0126951	12/31/2021	001A	pH	6.99	7.24
TX0126951	1/31/2022	001A	pH	7.1	7.24
TX0126951	2/28/2022	001A	pH	7.11	7.24
TX0126951	3/31/2022	001A	pH	7.2	7.34
TX0126951	4/30/2022	001A	pH	7.2	7.21
TX0126951	5/31/2022	001A	pH	7.21	7.21
TX0126951	6/30/2022	001A	pH	7.2	7.22
TX0126951	7/31/2022	001A	pH	7.21	7.3
TX0126951	8/31/2022	001A	pH	7.14	7.34
TX0126951	9/30/2022	001A	pH	7.04	7.38
TX0126951	10/31/2022	001A	pH	7.13	7.33
TX0126951	11/30/2022	001A	pH	6.86	7.33
TX0126951	12/31/2022	001A	pH	7.04	7.35
TX0126951	1/31/2023	001A	pH	7.12	7.41
TX0126951	2/28/2023	001A	pH	7.14	7.43
TX0126951	3/31/2023	001A	pH	7.03	7.38
TX0126951	4/30/2023	001A	pH	7.22	7.38
TX0126951	5/31/2023	001A	pH	7.18	7.34
TX0126951	6/30/2023	001A	pH	7.01	7.32
TX0126951	7/31/2023	001A	pH	7.11	7.27
TX0126951	8/31/2023	001A	pH	7.11	7.27
TX0126951	9/30/2023	001A	pH	7.15	7.31
TX0126951	10/31/2023	001A	pH	7.14	7.24
TX0126951	11/30/2023	001A	pH	7.04	7.74
			2 YEAR AVERAGE	7.11	7.32
			5 YEAR AVERAGE	7.11	7.28

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure SINGGRAB (mg/L)	Reported Measure DAILY AV (lb/d)
TX0126951	11/30/2018	001A	Solids, total suspended	4.1	Not Received	7.6	7.4
TX0126951	12/31/2018	001A	Solids, total suspended	3.6	Not Received	7.8	7.1
TX0126951	1/31/2019	001A	Solids, total suspended	5.6	Not Received	10.8	12.8
TX0126951	2/28/2019	001A	Solids, total suspended	3.5	Not Received	4.6	7.5
TX0126951	3/31/2019	001A	Solids, total suspended	3.8	Not Received	4.8	7.6
TX0126951	4/30/2019	001A	Solids, total suspended	2.9	Not Received	4.4	5.9
TX0126951	5/31/2019	001A	Solids, total suspended	4.1	Not Received	7	9.6
TX0126951	6/30/2019	001A	Solids, total suspended	2	Not Received	2	4.7
TX0126951	7/31/2019	001A	Solids, total suspended	2.3	Not Received	2.6	5.2
TX0126951	8/31/2019	001A	Solids, total suspended	2.6	Not Received	3.8	5
TX0126951	9/30/2019	001A	Solids, total suspended	2.8	Not Received	4.4	6.2
TX0126951	10/31/2019	001A	Solids, total suspended	6.4	Not Received	11.6	13.5
TX0126951	11/30/2019	001A	Solids, total suspended	4.1	Not Received	5.4	9.4
TX0126951	12/31/2019	001A	Solids, total suspended	4.6	Not Received	6.8	9.5
TX0126951	1/31/2020	001A	Solids, total suspended	4.3	Not Received	9.4	10
TX0126951	2/29/2020	001A	Solids, total suspended	2.8	Not Received	4	6
TX0126951	3/31/2020	001A	Solids, total suspended	2.4	Not Received	3	4.8

TX0126951	4/30/2020	001A	Solids, total suspended	2.4	Not Received	3.2	5.5
TX0126951	5/31/2020	001A	Solids, total suspended	2	Not Received	2	4.6
TX0126951	6/30/2020	001A	Solids, total suspended	3.5	Not Received	8	10.2
TX0126951	7/31/2020	001A	Solids, total suspended	2.4	Not Received	4	6.3
TX0126951	8/31/2020	001A	Solids, total suspended	3.4	Not Received	6.4	7.8
TX0126951	9/30/2020	001A	Solids, total suspended	4	Not Received	7.8	12.5
TX0126951	10/31/2020	001A	Solids, total suspended	2.2	Not Received	2.6	4.9
TX0126951	11/30/2020	001A	Solids, total suspended	2.9	Not Received	3.8	7.1
TX0126951	12/31/2020	001A	Solids, total suspended	2.8	Not Received	5	7.7
TX0126951	1/31/2021	001A	Solids, total suspended	3	Not Received	4.8	8.8
TX0126951	2/28/2021	001A	Solids, total suspended	2.9	Not Received	5.2	7.7
TX0126951	3/31/2021	001A	Solids, total suspended	2	Not Received	2	5.7
TX0126951	4/30/2021	001A	Solids, total suspended	2.6	Not Received	3.4	7.8
TX0126951	5/31/2021	001A	Solids, total suspended	2	Not Received	2	4.9
TX0126951	6/30/2021	001A	Solids, total suspended	2.1	2.2	Not Received	5.5
TX0126951	7/31/2021	001A	Solids, total suspended	2.6	5	Not Received	6.2
TX0126951	8/31/2021	001A	Solids, total suspended	3.1	5.8	Not Received	7
TX0126951	9/30/2021	001A	Solids, total suspended	2.32	3	Not Received	5.13
TX0126951	10/31/2021	001A	Solids, total suspended	2.4	3.4	Not Received	4.9
TX0126951	11/30/2021	001A	Solids, total suspended	2	2	Not Received	4.3
TX0126951	12/31/2021	001A	Solids, total suspended	2.1	2.4	Not Received	5.5
TX0126951	1/31/2022	001A	Solids, total suspended	2	2	Not Received	4.8
TX0126951	2/28/2022	001A	Solids, total suspended	2	2	Not Received	5.5
TX0126951	3/31/2022	001A	Solids, total suspended	2.1	2.4	Not Received	4.4
TX0126951	4/30/2022	001A	Solids, total suspended	2	2	Not Received	5.3
TX0126951	5/31/2022	001A	Solids, total suspended	2	2	Not Received	5.6
TX0126951	6/30/2022	001A	Solids, total suspended	2	2	Not Received	5.3
TX0126951	7/31/2022	001A	Solids, total suspended	2	2	Not Received	4.6
TX0126951	8/31/2022	001A	Solids, total suspended	4.3	11	Not Received	11.7
TX0126951	9/30/2022	001A	Solids, total suspended	2	2	Not Received	5.6
TX0126951	10/31/2022	001A	Solids, total suspended	2	2	Not Received	5.2
TX0126951	11/30/2022	001A	Solids, total suspended	5.9	10.4	Not Received	16.4
TX0126951	12/31/2022	001A	Solids, total suspended	2.8	6	Not Received	7.9
TX0126951	1/31/2023	001A	Solids, total suspended	2.2	2.6	Not Received	5.5
TX0126951	2/28/2023	001A	Solids, total suspended	2.8	4.6	Not Received	6.8
TX0126951	3/31/2023	001A	Solids, total suspended	3.3	7	Not Received	8.1
TX0126951	4/30/2023	001A	Solids, total suspended	3.7	8	Not Received	9.1
TX0126951	5/31/2023	001A	Solids, total suspended	2	2	Not Received	4.7
TX0126951	6/30/2023	001A	Solids, total suspended	4.9	16.6	Not Received	13.1
TX0126951	7/31/2023	001A	Solids, total suspended	2	2	Not Received	5.5
TX0126951	8/31/2023	001A	Solids, total suspended	<2	<2	Not Received	<5.5
TX0126951	9/30/2023	001A	Solids, total suspended	2	2	Not Received	5.5
TX0126951	10/31/2023	001A	Solids, total suspended	2.1	2.4	Not Received	6.7
TX0126951	11/30/2023	001A	Solids, total suspended	2.2	2.8	Not Received	7.5
			2 YEAR AVERAGE	2.58	4.09	Not Received	6.80
			5 YEAR AVERAGE	2.90	4.05	5.17	7.09

EPA ID				Reported Measure
	Monitoring Period	Outfall	Parameter	2HR PEAK (gal/min)
TX0126951	6/30/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	7/31/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	8/31/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	9/30/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	10/31/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	11/30/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	12/31/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	1/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	2/28/2022	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	3/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	4/30/2022	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	5/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	6/30/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	7/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	8/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	9/30/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	10/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	11/30/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	12/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	1/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	2/28/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	3/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	4/30/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	5/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	6/30/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	7/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	8/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	9/30/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	10/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	11/30/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
			2 YEAR AVERAGE	NODI=9
			5 YEAR AVERAGE	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL AVG (MGD)
TX0126951	6/30/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	7/31/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	8/31/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	9/30/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	10/31/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	11/30/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	12/31/2021	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	1/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	2/28/2022	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	3/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	4/30/2022	001A	Flow, in conduit or thru treatment plant	NODI=C
TX0126951	5/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	6/30/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	7/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	8/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	9/30/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	10/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	11/30/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	12/31/2022	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	1/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	2/28/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	3/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	4/30/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	5/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	6/30/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	7/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	8/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	9/30/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	10/31/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
TX0126951	11/30/2023	001A	Flow, in conduit or thru treatment plant	NODI=9
			2 YEAR AVERAGE	NODI=9
			5 YEAR AVERAGE	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (N=0;Y=1)
TX0126951	7/31/2019	SLDF	Compliance w/part 258 sludge requirement	NODI=C
TX0126951	7/31/2020	SLDF	Compliance w/part 258 sludge requirement	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0126951	7/31/2019	SLDP	Annual amount of sludge land applied	0
TX0126951	7/31/2020	SLDP	Annual amount of sludge land applied	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0126951	7/31/2019	SLDP	Annual amt of sludge incinerated	0
TX0126951	7/31/2020	SLDP	Annual amt of sludge incinerated	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0126951	7/31/2019	SLDP	Annual amt sludge disposed in landfill	0
TX0126951	7/31/2020	SLDP	Annual amt sludge disposed in landfill	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0126951	7/31/2019	SLDP	Annual amt. sludge disposed surface unit	0
TX0126951	7/31/2020	SLDP	Annual amt. sludge disposed surface unit	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0126951	7/31/2019	SLDP	Annual amt sludge transported interstate	0
TX0126951	7/31/2020	SLDP	Annual amt sludge transported interstate	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0126951	7/31/2019	SLDP	Annual sludge production, total	69.95
TX0126951	7/31/2020	SLDP	Annual sludge production, total	66.93

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL MAX (mg/kg)
TX0126951	7/31/2019	SLDP	Polychlorinated biphenyls [PCBs]	<2
TX0126951	7/31/2020	SLDP	Polychlorinated biphenyls [PCBs]	<2

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO AV MN (pass=0;fail=1)
TX0126951	7/31/2019	SLDP	Toxicity characteristic leaching procedure	0
TX0126951	7/31/2020	SLDP	Toxicity characteristic leaching procedure	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0126951	7/31/2019	SLDP	Ann. amt sludge disposed by other method	69.95
TX0126951	7/31/2020	SLDP	Ann. amt sludge disposed by other method	66.93

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MX VALUE (met t/ha/yr)
TX0126951	7/31/2019	SLLA	Annual whole sludge application rate	NODI=C
TX0126951	7/31/2020	SLLA	Annual whole sludge application rate	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0126951	7/31/2019	SLLA	Arsenic, dry weight	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Arsenic, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0126951	7/31/2019	SLLA	Cadmium, dry weight	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Cadmium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0126951	7/31/2019	SLLA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0126951	7/31/2019	SLLA	Copper, dry weight	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Copper, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0126951	7/31/2019	SLLA	Lead, sludge, total, dry weight [as Pb]	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Lead, sludge, total, dry weight [as Pb]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0126951	7/31/2019	SLLA	Mercury, sludge, total, dry weight [as Hg]	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Mercury, sludge, total, dry weight [as Hg]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0126951	7/31/2019	SLLA	Molybdenum, sludge, total, dry weight [as Mo]	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Molybdenum, sludge, total, dry weight [as Mo]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0126951	7/31/2019	SLLA	Nickel, sludge, total, dry weight [as Ni]	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Nickel, sludge, total, dry weight [as Ni]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)

TX0126951	7/31/2019	SLLA	Selenium, dry weight	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Selenium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0126951	7/31/2019	SLLA	Zinc, sludge, total, dry weight [as Zn]	NODI=C	NODI=C	NODI=C
TX0126951	7/31/2020	SLLA	Zinc, sludge, total, dry weight [as Zn]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (table #)
TX0126951	7/31/2019	SLLA	Pollutant table from 503.13	NODI=C
TX0126951	7/31/2020	SLLA	Pollutant table from 503.13	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0126951	7/31/2019	SLLA	Description of pathogen option used	NODI=C
TX0126951	7/31/2020	SLLA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0126951	7/31/2019	SLLA	Vector attraction reduction alternative used	NODI=C
TX0126951	7/31/2020	SLLA	Vector attraction reduction alternative used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MX VALUE (state class)
TX0126951	7/31/2019	SLLA	Level of pathogen requirements achieved	NODI=C
TX0126951	7/31/2020	SLLA	Level of pathogen requirements achieved	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MAXIMUM (MPN/g)
TX0126951	7/31/2019	SLLY	Fecal coliform	NODI=C
TX0126951	7/31/2020	SLLY	Fecal coliform	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MAXIMUM (MPN/g)
TX0126951	7/31/2019	SLLY	Salmonella	NODI=C
TX0126951	7/31/2020	SLLY	Salmonella	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0126951	7/31/2019	SLSA	Arsenic, dry weight	NODI=C	NODI=C
TX0126951	7/31/2020	SLSA	Arsenic, dry weight	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (acr)
TX0126951	7/31/2019	SLSA	Boundary areas	NODI=C
TX0126951	7/31/2020	SLSA	Boundary areas	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0126951	7/31/2019	SLSA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C
TX0126951	7/31/2020	SLSA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0126951	7/31/2019	SLSA	Description of pathogen option used	NODI=C
TX0126951	7/31/2020	SLSA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0126951	7/31/2019	SLSA	Nickel, total [as Ni]	NODI=C	NODI=C
TX0126951	7/31/2020	SLSA	Nickel, total [as Ni]	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MINIMUM (SU)
TX0126951	7/31/2019	SLSA	pH	NODI=C
TX0126951	7/31/2020	SLSA	pH	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (N=0;Y=1)
TX0126951	7/31/2019	SLSA	Unit w/liner/leachate collection system	NODI=C
TX0126951	7/31/2020	SLSA	Unit w/liner/leachate collection system	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0126951	7/31/2019	SLSA	Vector attraction reduction alternative used	NODI=C
TX0126951	7/31/2020	SLSA	Vector attraction reduction alternative used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (state class)
TX0126951	7/31/2019	SLSA	Level of pathogen requirements achieved	NODI=C
TX0126951	7/31/2020	SLSA	Level of pathogen requirements achieved	NODI=C

Senate Bill 709 (84th Legislative Session, 2015) amended the Texas Water Code by adding new Section 5.5553, which requires the Texas Commission on Environmental Quality (TCEQ) to provide written notice to you at least thirty (30) days prior to the TCEQ's issuance of draft permits for applications that are located in your district.

Brazoria County Municipal Utility District No. 31, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, has applied to the TCEQ to amend Texas Pollutant Discharge Elimination System Permit No. WQ0014546001 (EPA I.D. No. TX0126951) to authorize the addition of acreage to the plant site and the discharge of treated domestic wastewater at a volume not to exceed an annual average flow of 2,000,000 gallons per day. The domestic wastewater treatment facility is located at 2401 County Road 57, in Brazoria County, Texas 77583. The discharge route is from the plant site to Brazoria County Drainage District 5 ditch, thence to an unnamed tributary, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. TCEQ received this application on December 1, 2023. The permit application will be available for viewing and copying at Manvel Library, 20514B Highway 6, Manvel, Texas. 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=-95.43879,29.455264&level=18

TCEQ is preparing the initial draft permit. At the time the draft permit is issued, the applicant will be required to publish notice in a newspaper of general circulation, and the TCEQ will provide a copy of the notice of draft permit to persons who have requested to be on a mailing list.

Questions regarding this application may be directed to Mr. Firoj Vahora by calling 512-239-4540.

Issuance Date: February 2, 2024

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

Date: 2/22/24

To: Municipal Permits Team

Thru: Colleen Cook, Pretreatment Team Leader

From: S. O. Sarah O'Neill, Pretreatment Coordinator

Subject: Pretreatment program option for the TPDES Permit No. WQ0014546001, Brazoria County MUD 31 – Brazoria County MUD 31 WWTP summary sheet

I have reviewed the above referenced permit and have determined that the publicly-owned treatment works (POTW) receives the standard pretreatment language. This memo is placed in H:\WQ\muni\pret\memos\14546-001memo(2).docx.

Option 1: This general pretreatment boilerplate language should be put in TPDES permits for all POTWs that do not have either an approved pretreatment program or requirement to develop a new pretreatment program.

Within this standard language, the Pretreatment Program has not incorporated additional pretreatment language requirements. Please incorporate the following language for permittee's FACT SHEET, if applicable, under:

1. INDUSTRIAL WASTE CONTRIBUTION

The Brazoria County MUD 31 WWTP does not appear to receive significant industrial wastewater contributions. Based on the information provided by the permittee in the most recent TPDES permit application, the TCEQ determined that there are no significant industrial wastewater contributions currently being discharged to the permittee's POTW.

2. 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.

3. SUMMARY OF CHANGES FROM EXISTING PERMIT

The pretreatment language has not been updated from the current permit. The pretreatment requirements will continue until permit expiration.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

Thru: Josi Robertson, Modeler
Water Quality Assessment Team
Water Quality Assessment Section

From: Orlando M. Vasquez, Jr., P.E.
Water Quality Assessment Team
Water Quality Assessment Section

Date: 02/16/2024

Subject: Brazoria County MUD No. 31
Permit Amendment (WQ0014546, TX0126951)
Discharge to a tributary of Chocolate Bayou Above Tidal (Segment No. 1108) of the San Jacinto-Brazos Coastal Basin

The referenced applicant is proposing to amend and renew its permit authorizing the discharge of treated domestic wastewater into the watershed of the Chocolate Bayou Above Tidal (Segment No. 1108). This amendment is to remove the currently permitted Interim I (0.48 MGD) flow phase and to add another interim (1.15 MGD) flow phase. A dissolved oxygen analysis of the referenced discharge was conducted using uncalibrated QUAL-TX models for the proposed 0.90 MGD Interim I flow phase, 1.15 MGD Interim II flow phase, and 2.0 MGD Final flow phase. The facility is located in Brazoria County.

Based on model results, the proposed effluent limits of **10 mg/L $CBOD_5$, 3 mg/L NH_3-N,** and **4.0 mg/L DO** for the **0.90 MGD** and **1.15 MGD phases,** and **7 mg/L $CBOD_5$, 2 mg/L NH_3-N,** and **6.0 mg/L DO** for the **2.0 MGD phase** are predicted to be adequate to maintain dissolved oxygen levels above the criteria stipulated by the Standards Implementation Team for the BCDD 5 ditch 101-05-02-01 (2.0 mg/L), an unnamed tributary (2.0 mg/L), and West Fork Chocolate Bayou (5.0 mg/L).

Coefficients and kinetics used in the models are a combination of standardized default and estimated values. The results of this evaluation can be reexamined upon receipt of information that conflicts with the assumptions employed in this analysis.

Segment 1108 is currently listed on the State's inventory of impaired and threatened waters (the **2022** Clean Water Act Section 303(d) list). The listing is for bacteria in water from the salt water barrier (immediately downstream of the Chocolate Bayou Rice Canal) 5.2 km (3.2 mi) downstream of SH 35 in Brazoria County to SH 6 in Brazoria County (AU 1108_01).

The existing effluent limits have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The existing limits are consistent with the approved WQMP.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Michael B. Pfeil, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: February 14, 2024

Subject: Brazoria County MUD No. 31
Brazoria County MUD No. 31 WWTP
Permit No. WQ0014546001

WHOLE EFFLUENT TOXICITY (WET) TESTING (BIOMONITORING)

The following information applies to Outfall 001. We recommend freshwater chronic and 24-hour acute testing. For chronic testing, we recommend the water flea (*Ceriodaphnia dubia*) and the fathead minnow (*Pimephales promelas*) as test species and a testing frequency of once per quarter for both test species. We recommend a dilution series of 31%, 42%, 56%, 74%, and 100% with a critical dilution of 74%. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

For 24-hour acute testing, we recommend a water flea (*Ceriodaphnia dubia* or *Daphnia pulex*) and the fathead minnow as test species and a testing frequency of once per six months for both test species.

This facility is operating in a phase with a design flow of less than 1 MGD. Therefore, there is no WET testing history to review. WET testing will commence within 90 days of initial discharge from the interim phase 1.15 MGD facility.

REASONABLE POTENTIAL (RP) DETERMINATION

A reasonable potential 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 WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With no WET testing history, and therefore zero failures, a determination of no RP was made. WET limits are not required and the permittee may be eligible for the testing frequency reduction after one year of quarterly testing occurs.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Brian Christman, Water Quality Assessment Team
Water Quality Assessment Section

Date: February 5, 2024

Subject: Brazoria County Municipal Utility District No. 31
Wastewater Permit No. WQ0014546001
Critical Conditions Recommendation Memo

The following information applies to **Outfall 001**.

The TexTox menu number is **2** for an intermittent water body within three miles of a perennial freshwater ditch, stream, or river.

This discharge is to Brazoria County Drainage District (BCDD) 5 ditch within three miles of West Fork Chocolate Bayou.

Segment No.	1108
Effluent Flow for Aquatic Life (MGD)	2.0 (Permitted)
Critical Low Flow [7Q2] (cfs) for intermittent	0
Critical Low Flow [7Q2] (cfs) for perennial	1.08
% Effluent for Acute Aquatic Life (ZID)	100
Effluent Flow for Human Health (MGD)	2.0 (Permitted)
Harmonic Mean Flow (cfs)	1.49

Human Health criteria apply for Fish Only.

There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

OUTFALL LOCATION [1]

Outfall Number	Latitude	Longitude
001	29.455708 N	95.438628 W

[1] Latitude and Longitude values are approximations of the location for administrative purposes.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: M. A. Wallace, PhD, Standards Implementation Team
BC for MW
Water Quality Assessment Section
Water Quality Division

Thru: Brad Caston, Standards Implementation Peer Review
BC 2/1/23
Water Quality Assessment Section
Water Quality Division

Date: 1/29/2024

Subject: Brazoria Co. MUD No. 31; Permit no. 14546-001
Amendment; Application received: 12/1/2023

The discharge route for the above referenced permit is Brazoria County Drainage District (BCDD) 5 ditch, thence to an unnamed tributary, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment 1108 of the San Jacinto-Brazos Coastal Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 1108 are primary contact recreation, high aquatic life use, and 5.0 mg/L dissolved oxygen.

Since the discharge is directly to an unclassified water body, the permit action was reviewed in accordance with §307.4(h) and (l) of the 2022 Texas Surface Water Quality Standards and the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010). Based on available information, a preliminary determination of the aquatic life uses in the area of the discharge impact has been performed and the corresponding dissolved oxygen criterion assigned.

BCDD 5 ditch; minimal aquatic life use; 2.0 mg/L dissolved oxygen.
unnamed tributary; minimal aquatic life use; 2.0 mg/L dissolved oxygen.
West Fork Chocolate Bayou; high aquatic life use; 5.0 mg/L dissolved oxygen.

In accordance with §307.5 and the TCEQ implementation procedures (June 2010) for the Texas Surface Water Quality Standards, an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in West Fork Chocolate Bayou, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

The effluent passed screening calculations for total dissolved solids (TDS), chloride and sulfate at Segment 1108.

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 occur in 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.

TABLE "ADMIN.04"

Brazoria County MUD 31
Brazoria County MUD 31 Wastewater Treatment Plant

Adjacent & Downstream Land Ownership Table
Source: Brazoria County Appraisal District

Tract No. (See Attachment "ADMIN.04" Map)	**Title Owner & Address**
1	608 COLONY INVESTMENTS LTD 10003 N W MILITARY HWY SUITE 2201 SAN ANTONIO TX 78231
2	IOWA COLONY STERLING LAKES LTD 2450 FONDREN SUITE 210 HOUSTON TX 77063
3	LGI HOMES-TEXAS LLC 1450 LAKE ROBBINS DRIVE SUITE 430 THE WOODLANDS TX 77380
4	DR HORTON TEXAS LTD 6744 HORTON VISTA DRIVE SUITE 100 RICHMOND TX 77407
5	ALVIN ISD 301 E HOUSE STREET ALVIN TX 77511

Leah Whallon

From: Leah Whallon
Sent: Friday, January 19, 2024 5:18 PM
To: OCC-WQ
Subject: FW: NORI for Permit No. WQ0014546001; Brazoria County Municipal Utility District No. 31 WWTP
Attachments: WQ0014546001 Letter.pdf; 20244-NORI INSTRUCTIONS3-2021.docx; WQ0014546001-nori-eng.docx; WQ0014546001 Affidavits.docx; 20244-NORI PNV Form5-2017.docx; WQ0014546001-nori-esp.docx; WQ0014546001 Contact.docx; WQ0014546001 Landowner List.pdf; WQ0014546001 Labels.docx

From: Leah Whallon
Sent: Friday, January 19, 2024 5:17 PM
To: syoung@waterengineers.com
Subject: NORI for Permit No. WQ0014546001; Brazoria County Municipal Utility District No. 31 WWTP

Good Afternoon,

Permit No. WQ0014546001

Applicants are required to publish the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit within 30 days of the application being declared administratively complete.

Attached are:

- Letter of Declaration of Administrative Completeness
- Instructions of Public Notice
- Notice of Receipt of Application and Intent to Obtain a Water Quality Permit
- Affidavit of Publication
- Public Notice Verification Form
- Notice of Receipt of Application and Intent to Obtain a Water Quality Permit in Spanish Language

Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 19, 2024

Ms. Shelley Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Road, Suite A
Cypress, Texas 77429

RE: Declaration of Administrative Completeness
Applicant Name: Brazoria County Municipal Utility District No. 31 (CN602782195)
Permit No.: WQ0014546001 (EPA I.D. No. TX0126951)
Site Name: Brazoria County MUD 31 WWTP (RN104364096)
Type of Application: Major Amendment with Renewal

Dear Ms. Young:

The executive director has declared the above referenced application, received on December 1, 2023, administratively complete on January 19, 2024.

You are now required to publish notice of your proposed activity and make a copy of the application available for public review. The following items are included to help you meet the regulatory requirements associated with this notice:

- Instructions for Public Notice
- Notice for Newspaper Publication
- Public Notice Verification Form
- Publisher's Affidavits

You must follow all the directions in the enclosed instructions. The most common mistakes are the unauthorized changing of notice, wording, or font. If you fail to follow these instructions, you may be required to republish the notices.

The following requirements are also described in the enclosed instructions. However, due to their importance, they are highlighted here as well.

1. Publish the enclosed notice within **30 calendar days** after your application is declared administratively complete. (See this letter's first paragraph for the declaration date.) **You may be required to publish the notice in more than one newspaper, including a newspaper published in an alternative language, to satisfy all of the notice requirements.**

2. On or before the date you publish notice, place a copy of your permit application in a public place in the county where the facility is or will be located. This copy must be accessible to the public for review and copying, must be updated to reflect changes to the application, and must remain in place throughout the comment period.

3. For each publication, submit proof of publication of the notice that shows the publication date and newspaper name to the Office of the Chief Clerk within **30 calendar days** after notice is published in the newspaper.

4. Return the original enclosed Public Notice Verification and the Publisher's Affidavits to the Office of the Chief Clerk within **30 calendar days** after the notice is published in the newspaper.

If you do not comply with all the requirements described in the instructions, further processing of your application may be suspended, or the agency may take other actions.

If you have any questions regarding publication requirements, please contact the Office of Legal Services at (512) 239-0600. If you have any questions regarding the content of the notice, please contact Ms. Leah Whallon at (512) 239-0084.

Sincerely,

JEBowers

Jennifer E. Bowers
Section Manager, Water Quality Division Support
Office of Water
Texas Commission on Environmental Quality

JEB/lcw

Enclosures

Texas Commission on Environmental Quality
Instructions for Public Notice for a Water Quality Permit
Notice of Receipt of Application and Intent to Obtain Permit (NORI)

Your application has been declared administratively complete. You must comply with the following instructions. There are seven (7) steps involved in publishing notice. Complete each step.

1. **REVIEW THE NOTICE FOR ACCURACY**

   Read the enclosed notice carefully and notify the Application Review and Processing Team at 512-239-4671 immediately if it contains any errors or omissions. You are responsible for ensuring the accuracy of all information published. Do not change the text or formatting of the notice or affidavit of publication without prior approval from the TCEQ. Changing the text or formatting of the notice may require new publication at your expense and delay processing of your application.

2. **PUBLISH THE NOTICE IN THE NEWSPAPER**

   You must publish the enclosed notice within 30 days after the date of administrative completeness. Refer to the cover letter for the date of administrative completeness.

   You must publish the enclosed notice at your expense, at least once in the newspaper of largest circulation within each county where the facility and discharge point are located or will be located. If the facility and discharge point are located or will be located in a municipality, the enclosed notice must be published at least once in a newspaper of general circulation in the municipality. These requirements may be satisfied by one publication if the newspaper meets all of the above requirements.

   The bold text of the enclosed notice must be printed in the newspaper in a font style or size that distinguishes it from the rest of the notice (i.e., bold, italics). Failure to do so may require re-notice.

3. **PUBLISH THE NOTICE IN AN ALTERNATIVE LANGUAGE**

   You must publish notice in an alternative language IF: either the elementary or middle school nearest to the facility or proposed facility is required to provide a "bilingual education program" (BEP) as required by Texas Education Code (TEC), Chapter 29, Subchapter B, and 19 Tex. Admin. Code §89.1205(a) AND one of the following conditions is met:

   - students are enrolled in a program at that school;
   - students from that school attend a bilingual education program at another location; or
   - the school that otherwise would be required to provide a bilingual education program has been granted an exception from the requirements to provide the program as provided for in 19 Tex. Admin. Code §89.1207(a).

   A "bilingual education program" is different from an "English as a second language program" (ESL). An ESL program alone, will not require public notice in an alternative language.

If triggered, you must publish the notice in a newspaper or publication primarily published in the alternative language taught in the bilingual education program. Publication in an alternative language section or insert within a large publication which is not printed primarily in that alternative language does not satisfy these requirements. The newspaper or publication must be of general circulation in the county in which the facility and discharge point are located or proposed to be located. If the facility and discharge point are located or proposed to be located in a municipality, and there exists a newspaper or publication of general circulation in the municipality, you must publish the notice only in the newspaper or publication in the municipality.

You must demonstrate a good faith effort to identify a newspaper or publication in the required language. If there is no general circulation newspaper or publication printed in such language, then publishing in that language is not required. You have the burden to demonstrate compliance with these requirements.

If you are required to publish notice in Spanish, you must translate the site-specific information in the notice that is specific to your application, at your own expense. You may then insert the Spanish translation of your site-specific information into a Spanish template developed by the TCEQ. The Spanish templates are available on the TCEQ website at http://www.tceq.texas.gov/permitting/wastewater/review/wqspanish_nori.html. If you are required to publish notice in a language other than Spanish, you must translate the entire public notice, at your own expense.

4. **PUT THE APPLICATION IN A PUBLIC PLACE**

You must put a copy of the administratively complete application in the public place identified in the enclosed notice.

This copy must be accessible to the public for review and copying beginning on the first day of newspaper publication and remain in place for the publication's designated comment period.

During the technical review, you must update the publicly available application so that it includes all application revisions within 10 business days from the date the revision is transmitted to the TCEQ.

For confidential information contained in the application, you must indicate which specific portions of the application cannot be made available to the public. These portions of the application must be accompanied with the following statement: "Any request for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to the TCEQ Public Information Coordinator, MC 197, P.O. Box 13087, Austin, Texas 78711-3087."

5. **PROVIDE PROOF OF PUBLICATION**

For each newspaper in which you published, you must submit proof of publication. Proof of publication must include the following:

- a completed Publisher's Affidavit (enclosed); and
- a copy of the published notice which shows the notice, the date published, and the newspaper name. The copy must be on standard-size 8½ x 11" paper and must show the actual size of the published notice. Do not reduce the

image when making copies. Published notices longer than 11" must be copied onto multiple 8½ x 11" pages. Or you can submit the original newspaper clipping.

If you are required to publish notice in an alternative language and are unable to do so, complete and submit the Alternative Language Exemption form (enclosed).

6. PROVIDE PROOF OF APPLICATION VIEWING LOCATION

You must submit a completed Public Notice Verification Form (enclosed) which certifies that the administratively complete application was placed at the public place identified in the enclosed notice.

7. SUBMIT PROOFS TO TCEQ

The proof of publication documents (Step 5) and the completed Public Notice Verification Form (Step 6) must be submitted to TCEQ within 30 days of publication.

By email to: PROOFS@tceq.texas.gov

OR by mail at:
TCEQ
Office of the Chief Clerk, MC 105
Attn: Notice Team
P.O. Box 13087
Austin, Texas 78711-3087

NOTE: If proofs are submitted by email, you do not have to mail in the original documents.

Additional Information

If you fail to publish the notice or submit proofs within the timeframes noted above, the TCEQ may suspend further processing on your application or take other actions in accordance with 30 Tex. Admin. Code §39.405(a).

If you have any questions regarding publication requirements, please contact the Office of Legal Services at 512-239-0600. If you have any questions regarding the content of the notice, please contact the Wastewater Permitting Section at 512-239-4671. When contacting TCEQ regarding this application, please refer to the permit number at the top of the enclosed notice.

If you wish to obtain an electronic copy of the notice, please visit our web site at http://www.tceq.texas.gov/agency/cc/cc_db.html or http://www.tceq.texas.gov/agency/cc/eda.html. Please be aware that formatting codes may be lost and that any notices downloaded from these web sites must be reformatted by you so that your downloaded copy looks like the notice document you received from us.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0014546001

APPLICATION. Brazoria County Municipal Utility District No. 31, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014546001 (EPA I.D. No. TX0126951) to authorize the addition of acreage to the plant site and the discharge of treated domestic wastewater at a volume not to exceed an annual average flow of 2,000,000 gallons per day. The domestic wastewater treatment facility is located at 2401 County Road 57, in Brazoria County, Texas 77583. The discharge route is from the plant site to a Brazoria County Drainage District 5 ditch, thence to an unnamed tributary, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal. TCEQ received this application on December 1, 2023. The permit application will be available for viewing and copying at Manvel Library, 20514B Highway 6, Manvel, Texas prior to the date this notice is published in the newspaper. 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=-95.43879,29.455264&level=18

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.

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.**

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. 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 Brazoria County Municipal Utility District No. 31 at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers, Inc., at 281-373-0500.

Issuance Date: January 19, 2024

TCEQ-OFFICE OF THE CHIEF CLERK
MC-105 Attn: Notice Team
P.O. BOX 13087
AUSTIN, TX 78711-3087

Applicant Name: Brazoria County Municipal Utility District No. 31
Permit No.: WQ0014546001

PUBLISHER'S AFFIDAVIT
FOR WATER QUALITY PERMITS

STATE OF TEXAS §
COUNTY OF _____§

Before me, the undersigned authority, on this day personally appeared

_____ who being by me duly sworn, deposes
(name of person representing newspaper)

and says that **(s)**he is the_____
(title of person representing newspaper)

of the _____; that this newspaper is a newspaper of
(name of newspaper)

largest circulation in _____ County, Texas or is
(name of county)

a newspaper of general circulation in _____,
(name of municipality)

Texas; and that the enclosed notice was published in said newspaper on the following date**(s)**:

_____

_____
(newspaper representative's signature)

Subscribed and sworn to before me this the _____ day of _____,

20____.

(Seal)

_____
Notary Public in and for the State of Texas

_____
Print or Type Name of Notary Public

My Commission Expires _____

TCEQ-OFFICE OF THE CHIEF CLERK
MC-105 Attn: Notice Team
P.O. BOX 13087
AUSTIN, TX 78711-3087

Applicant Name: Brazoria County Municipal Utility District No. 31
Permit No.: WQ0014546001

ALTERNATIVE LANGUAGE
PUBLISHER'S AFFIDAVIT

STATE OF TEXAS §
COUNTY OF _____ §

Before me, the undersigned notary public, on this day personally appeared

_____, who being by me duly sworn, deposes
(name of person representing newspaper)

and says that (s)he is the _____ of the
(title of person representing newspaper)

_____; that said newspaper is
(name of newspaper)

generally circulated in _____ County, Texas and
(same county as proposed facility)

is published primarily in _____ language; that the
(alternative language)

enclosed notice was published in said newspaper on the following date(s):

_____.

Subscribed and sworn to before me this the _____ day of _____,

20____, by _____
(newspaper representative's signature)

(Seal)

_____
Notary Public in and for the State of Texas

_____
Print or Type Name of Notary Public

My Commission Expires _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Public Notice Verification Form
Notice of Receipt of Application and Intent to Obtain Permit (NORI)
Water Quality Permit

All applicants must complete this page.

Applicant Name:

Site or Facility Name:

Water Quality Permit Number:

Regulated Entity Number: RN Customer Number: CN

PUBLIC VIEWING LOCATION

I certify that a copy of the complete water quality application, and all revisions, were placed at the following public place for public viewing and copying. I understand that the copy will remain available at the public place from the 1st day of publication of the NORI until the end of the designated comment period. I further understand that the copy will be updated with any revisions to the application.

Name of Public Place:

Address of Public Place:

Applicant or Applicant Representative Signature: _____

Title: _____ Date: _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Public Notice Verification Form
Notice of Receipt of Application and Intent to Obtain Permit (NORI)
Water Quality Permit

Complete this page only if you are required to publish in an alternative language and are not able to do so.

Applicant Name:

Site or Facility Name:

Water Quality Permit Number:

Regulated Entity Number: RN Customer Number: CN

ALTERNATIVE LANGUAGE EXEMPTION

I certify that I have conducted a diligent search for a newspaper or publication of general circulation in both the municipality and county in which the facility is located or proposed to be located and was unable to publish the notice in the required alternative language because:

☐ A newspaper or publication could not be found in any of the alternative languages in which notice is required.

☐ The publishers of the newspapers listed below refused to publish the notice as requested, and another newspaper or publication in the same language and of general circulation could not be found in the municipality or county in which the facility is located or proposed to be located.

Newspaper Name:

Language:

Applicant or Applicant Representative Signature: _____

Title: _____ Date: _____

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
MODIFICACION

PERMISO PROPUESTO NO. WQ0014546001

SOLICITUD. Distrito Municipal de Servicios Publicos del Condado de Brazoria Numero 31, 3200 Autopista Suroeste, Oficina 2600, Houston, Tejas 77027, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) modificar el propuesto Permiso No. WQ0014546001 (EPA I.D. No. TX 0126951) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la adición de superficie al sitio de la planta y la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio anual de 2,000,000 galones por día. La planta está ubicada a 2401 Carretera del Condado 57, en el Condado de Brazoria, Texas 77583. La ruta de descarga es del sitio de la planta a una zanja del Distrito 5 de Drenaje del Condado de Brazoria, de ahí a un tributario sin nombre; de ahi a West Fork Chocolate Bayou; de ahí a Chocolate Bayou por encima de la marea. La TCEQ recibió esta solicitud el 1 de diciembre de 2023. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca de Manvel, 20514B, Autopista 6, Manvel, Tejas, antes de la fecha de publicación de este aviso en el periódico. 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=-95.43879,29.455264&level=18

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

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

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

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

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

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

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

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía

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

También se puede obtener información adicional del Distrito Municipal de Servicios Publicos del Condado de Brazoria Numero 31 a la dirección indicada arriba o llamando a Shelley Young, P.E., WaterEngineers,Inc. al 281-373-0500.

Fecha de emisión el 19 de enero de 2024

CHECKLIST FOR ADMIN REVIEW OF MUNICIPAL INDIVIDUAL PERMIT APPLICATION

Permit No. WQ0014546001	**EPA ID** TX0126951	**MGD** 2.0
CN602782195	**RN**104364096	**County** Brazoria **Region No.** 12
EPA Class. ☐ **Major** ☒ **Minor**	**App Received Date** 12/01/23	**Expiration Date** 06/26/24
Status ☐ **Inactive** ☒ **Active**	**Segment No.** 1108	**Permit Type** ☒ **TPDES** ☐ **TLAP**
Auth Type Pub Dom WW	**Application Type** Major Amend Renewal	

Note: A minor facility is generally one in which the final flow is less than 1.0 MGD.

Application Review Date: 12/29/23

☐ A copy of the **groundwater review** was provided (for TLAP new, major amendment, SADD minor amendment, and all applications with (or proposing) Class B sludge provisions).

☒ For **new and major amendment applications that propose surface water discharge (TPDES)**, the standards review for RWA comments is included.

☒ Coastal Zone sheet is included.

Fees or Penalties Owed: ☒ No ☐ Yes Amount Owed: _____
Verified in Basis2 Report: Outstanding Past Due Transactions Detail Report by Customer Name.

ADMINISTRATIVE REPORT 1.0 – FOR ALL APPLICATIONS

SECTION 1. APPLICATION FEES

Application Fees: Correct amount is checked **and** check or voucher number is provided and verified in Basis2 Report: Water Quality Receipt Report.
Note: copies of checks should be removed and shredded.

Municipal Application Fee Table

Proposed/Final Phase Flow	New/Major Amend.	Renewals	Minor Amendment or Modification ***without*** Renewal
< .05 MGD	☐ $350.00	☐ $315.00	☐ $150.00 (any flow)
≥ .05 but < .10 MGD	☐ $550.00	☐ $515.00	
≥ .10 but < .25 MGD	☐ $850.00	☐ $815.00	
≥ .25 but < .50 MGD	☐ $1,250.00	☐ $1,215.00	
≥ .50 but < 1.0 MGD	☐ $1,650.00	☐ $1,615.00	
≥ 1.0 MGD	☒ $2,050.00	☐ $2,015.00	

SECTION 2. TYPE OF APPLICATION

☒ The correct application type is marked
☒ Reason for amendment or modification is listed (if applicable).
Check Tech Report 1.0 Section 4 – Unbuilt Phases and Tech Report 1.1 Section 1.A – Justification for Permit.

Notes: _____

SECTION 3. FACILITY OWNER (APPLICANT) AND CO-APPLICANT INFORMATION

☒ Legal name of applicant is listed (***the owner of the facility must apply for the permit).***
☒ CN is listed for existing customer.
☒ Name and title of the person signing the application is listed and matches signature page.
☐ Legal name of co-applicant is listed ***(if required to apply with facility owner).***
☒ Core Data Form (CDF) is provided. A separate CDF is required for each customer.

CORE DATA FORM TCEQ Core Data Standards

Section I – General Information
☒ Reason for submittal is marked.
☒ Customer (CN) and Regulated Entity (RN) Reference Nos. provided – verify with Central Registry.

Section II – Customer Information
☒ Customer legal name is provided and it matches name on admin report.
☐ Texas SOS/Filing number is provided for a private business entity – verify with SOS
☐ Texas State Tax ID is provided for a private business entity – verify with Comptroller
☒ Type of customer is marked – refer to information below

☐ **Corporation:** Check with Secretary of State (SOS). Verify the entity status and charter number – print page. Verify correct legal spelling of applicant's name. Check spelling with SOS against the name listed in the application. (Permit must be issued in name as filed with SOS.) The applicant must be "**In existence and active**" before the application can be processed further.

☐ **Those entities subject to state franchise taxes:** If applicable, check with Comptroller of Public Accounts (CPA) Verify the tax identification number is correct. Note: Non-profit organizations and partnerships are not subject to the state franchise tax.

☐ **Individual: Complete Attachment 1 of Admin. Report 1.0** The complete legal name, including the middle name; and all other information is required. This info is required by Chapter 26.027C of the Texas Water Code. A separate attachment is required for each individual customer.

☒ **Utility District:** Check iWDD to verify that district is not dissolved status (inactive is O.K. to process).

☐ **Trust**: A copy of an executed trust agreement is provided. Verify that applicant's name is the same as the name in the trust agreement. NOTE: Executed trust must show signatures of trustees or beneficiaries forming the trust and the county in which it is recorded.

☐ **Partnership**: Verify with Secretary of State (SOS) that partnership is registered, active, and has a filing number. Check spelling with SOS against the name submitted in Item 1; Check that SOS # is correct; Print page from SOS website. OR if the partnership is not listed with the SOS, the applicant must provide a copy of the partnership agreement. The agreement must: give the name of the partnership as provided on the application for permit; list names of partners; bear signatures of the partners; and state the terms of the partnership.

☐ **Municipality/Governmental Agencies/School Districts:** City, County, ISD, Fed, etc. – applicable info is listed. Can verify with their public webpage.

☐ Other _____

☒ Number of employees is marked
☒ Customer role is marked
☒ Mailing address for the applicant is provided - verify on USPS. This address is for mailing the permit.
☒ Email address is provided
☒ Telephone number is provided

Section III – Regulated Entity Information

☒ Regulated Entity Name is provided and it matches name on admin report.
☒ Street address or location description of facility is adequately described. If different from current permit, new permit may be required. Use GIS mapping to confirm street address.
☒ The county where the facility is located is provided.
☒ The name of the nearest city is provided.
☒ The zip code is provided.
☒ The longitude and latitude of the facility is provided – check Map It link by searching for the Additional ID "AI" (WQ permit number) in Central Registry Internal Reporting Tool.
☒ Primary SIC Code is provided.
☒ Permit No. listed under appropriate program- if not listed, add it.
☐ **NOTE**: If other program ID numbers are listed and Update to Regulated Entity is checked in Section III, a copy of the CDF should be emailed to Central Registry EAMT at registry@tceq.texas.gov.

Section IV – Preparer Information

☒ Name, title, telephone number, and email address are provided.

Section V – Authorized Signature

☒ Company name, title, printed name, phone number, signature, and date are provided.

SECTION 4. APPLICATION CONTACT INFORMATION

☒ Administrative and Technical contact name, address, electronic information provided.

SECTION 5. PERMIT CONTACT INFORMATION

☒ 2 Permit contact names, addresses, electronic information provided.

SECTION 6. BILLING CONTACT INFORMATION

☒ Billing contact name, address, electronic information provided.

SECTION 7. REPORTING CONTACT INFORMATION

☒ DMR/MER contact name, address, electronic information provided.

SECTION 8. PUBLIC NOTICE INFORMATION

☐ **Minor Amendment *without* Renewal** – NORI not required. Skip review of notice information.
☒ Name, address, and phone number of one person responsible for publishing NORI is provided.
☒ Method of sending NORI package is provided.
☒ Name and phone number of contact to be in NORI is provided.
☒ Location where application will be available is provided and is in the county where the facility is located - the location must be a building supported by taxpayer funds. Note: If discharge is directly into water body that borders two counties, application must be placed in a public facility in both counties and the notice must be published in both counties.
☒ Bilingual Items 1 – 5 are completed. If "Yes" to question 1 and "Yes" to either question 2, 3 or 4, then e.5 must be completed Spanish

Public Involvement Plan (PIP) All New or Major Amendment Applications

For all PIP forms:
☒ Section 1 is completed.
☒ Section 2 is completed. All municipal new and major amendment applications require public notice. Verify the geographic location responses are correct using the statistical area map.

If ALL boxes in Section 2 are checked and verified:
☐ Sections 3, 6, and 7 are completed.
☐ Section 4 is completed, or plain language summary was provided by separate attachment for Section 15.
☐ Section 5 is completed. Any languages over 5% in items d and e will require alternative language notice and plain language summary.

SECTION 9. REGULATED ENTITY and PERMITTED SITE INFORMATION

☒ Regulated Entity No. is listed. If not, it is not a deficiency. It can be verified with Central Registry and PARIS.
☒ Name of project or site is provided. Should correspond to Item 22 on CDF.
☒ Owner of the facility identified in the application is the same as the name given in Section 3.A
NOTE: THE OWNER OF THE FACILITY IS REQUIRED TO APPLY FOR THE PERMIT
(Refer to legal policy memo for complete definition and discussion of facility.)
☒ Marked whether ownership of the facility is public, private, or both.
☒ Owner of the land where permitted facility is or will be located is the **SAME** as the applicant.
☐ The owner of the land on which the facility is located is **DIFFERENT FROM** the owner of the facility: A copy of a lease agreement or easement, with a term for the duration of the permit, between applicant and landowner, has been provided. See Lease Agreement/Easement Memo dated 2/14/06, that states that a lease is sufficient for pond systems, and that details the provisions that a lease agreement or easement must contain. Lease must identify property by legal description or map.
OR landowner can apply as a co-permittee.

Effluent Disposal Site Owner:

☒ N/A - (no effluent disposal proposed)
☐ If land disposal is authorized in permit or proposed, the applicant **OWNS** land on which site is located.
☐ If applicant **DOES NOT OWN** land where site is located, a long-term lease agreement is provided which includes: a term of at least 5 years; is current or it includes an option to renew the term; is between the current applicant and the landowner; and includes description of property by legal description or map.
(For new TLAP permits only: A copy of an executed option to purchase agreement may be provided to show that applicant will have ownership of the land upon permit approval.)

Sewage Sludge Disposal Site Owner:

☒ N/A - (no sludge disposal proposed)
☐ If sludge is authorized in permit or proposed, the applicant **OWNS** land on which disposal site is located, otherwise lease is needed unless Class B sludge is land applied. Check the permit under Sludge Provisions to determine if sludge is authorized. Note: For BLU sludge application – lease is not needed; landowner just needs to sign sludge affidavit (if different from applicant).

If sludge disposal is proposed or authorized in the permit, the applicant must also submit the applicable sludge forms.

SECTION 10. TPDES DISCHARGE INFORMATION

☒ Checked if treatment facility location in permit is correct.
☒ Checked if discharge info in permit is correct. If applicable, the discharge route description is adequately described and describes the discharge route to the nearest major watercourse. Changing the point of discharge and route from the current permit description requires a major amendment
☒ The name of the city (or nearest city) where the outfall(s) is/will be located has been provided
☒ The county where the outfall is located is provided
☒ The longitude and latitude of the outfall is provided
☒ Marked item regarding authorization for discharge into a city, county, or state ditch. If applicable, correspondence is provided. Email TXDOT if discharge is to a **state** highway right-of-way or roadside ditch.
☒ For a daily average flow of 5 MGD or more: the names of all counties located within 100 miles downstream from the point of discharge. These counties will be listed on contact sheet.

SECTION 11. TLAP DISPOSAL INFORMATION

☐ The written location description of the disposal site is adequately described. **(NOTE: A CHANGE IN LOCATION OR INCREASE IN ACREAGE REQUIRES A MAJOR AMENDMENT. A decrease in acreage may also be a major amendment (due to flow rate) - check with permit writer)**
☐ The name of the city (or nearest city) has been provided
☐ The county where the disposal site is located is provided
☐ The longitude and latitude of the disposal site is provided
☐ The written flow of effluent from the facility to the effluent disposal site is adequately described
☐ The nearest watercourse to the disposal site is listed

SECTION 12. MISCELLANEOUS INFORMATION

☒ Identified whether or not facility or discharge are on American Indian Land. If yes, we do not have permit authority.)
☒ For permits that allow sewage sludge disposal the location description is adequately described. For an existing permit, check to see that the location has not changed
☒ Indicated whether any former TCEQ employees who were paid for services regarding this application
☒ Fees or Penalties Owed: ☒ No ☐ Yes - See page 1 of checklist

SECTION 13 ATTACHMENTS

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

☒ An ORIGINAL or equivalent FULL-SIZED USGS 7.5-minute topographic map (8½ x 11 acceptable for amendment and renewal applications) is provided and labeled showing:

☒ applicant's property boundary
☒ treatment facility boundaries
☒ point(s) of discharge (outfalls)
☒ discharge route for three miles downstream or until it reaches a classified segment
☐ effluent disposal site(s)
☐ pond(s)
☐ sludge disposal/land application site
☒ one-mile radius

All original or equivalent full-sized maps must show:

☐ Color map
☐ Clear contour lines
☐ Upper left corner must identify map as USGS
☐ Lower left corner, datum & project information
☐ Bottom, magnetic declination
☐ Bottom, must show scale
☐ Bottom, identify contour intervals
☐ Bottom, national map accuracy std.
☐ Bottom, show State of TX and quad location
☐ Around map, lat and long coordinates
☐ Bottom, quadrangle name
☐ Bottom, must identify map date

SECTION 14 SIGNATURE PAGE

Note: The signature information below lists the proper signatories for the various entities and the current version of the application contains a paragraph referencing 30 TAC 305.44. The person signing the application verifies that he or she is authorized, under this rule, to sign the application. We must verify that the title meets the requirements or signatory authority has been delegated.

☒ **Original Signature Page is required.**

☒ **Signature must be properly notarized – check that signature date and notarized date are the same.**

Applicant	Co-Applicant	
☐	☐	City: Elected official or principle executive officer of the city may be public works director.
☐	☐	Individual: only the individual signs for himself/herself.
☐	☐	Partnership: General Partner or exec officer
☐	☐	Corporation: at least the level of vice president (CEO, Chairman of Board, Secretary)
☒	☐	Utility District: at least the level of vice president, on Board of Directors or District Manager
☐	☐	Water Authority: Regional managers.
☐	☐	School Districts: at least level of the Assistant Superintendent or board members.
☐	☐	Governmental Agencies: Division Directors or Regional Directors.
☐	☐	Trust: The trustee that has been identified in the trust agreement.
☐	☐	Other: _____

SECTION 15. PLAIN LANGUAGE SUMMARY

☒ Plain Language Summary in English is provided for all applications. Verify the customer's name, facility name and location, type of facility, and flow are consistent with the application and notice.
☒ Plain Language Summary for any alternative language listed in Section 8, Item E, No. 5 is provided, if applicable.

ADMIN REPORT 1.1 For All New or Major Amendment Applications

SECTION 1. AFFECTED LANDOWNER INFORMATION

Landowner Map:

☐ The applicant's complete property boundaries are delineated which includes boundaries of contiguous property owned by the applicant.

☒ For domestic facilities, show the buffer zone and identify all of the landowners whose property is located within the buffer zone.

☐ The property boundaries of the landowners surrounding the applicant's property have been clearly delineated on the map.

☐ The location of the facility within applicant's property is shown.

For TPDES applications:

☐ The point(s) of discharge is clearly identified on the map and the discharge route(s) is highlighted.

☒ The scale of map is provided to measure one mile downstream **or** if discharge is into a lake, bay estuary, or affected by tides, ½ mile up & down stream is measured.

☐ The property boundaries of landowners adjacent to the discharge route(s) for one mile downstream from the point of discharge have been clearly delineated and the route is clearly delineated. **OR** If discharge is into a lake, bay estuary, or affected by tides, the property boundaries of landowners ½ mile up & downstream and those property owners across the lake along the shore line that fall within a ½ mile radius of the point of discharge are clearly delineated on the map.

For TLAP applications (i.e., irrigation, evaporation, etc.):

☐ The boundaries of the disposal site are clearly shown on the map.

☐ The boundaries of all landowners surrounding the disposal site are shown.

For all TPDES/TLAP applications:

☒ Cross-referenced list of landowners is provided.
☐ USB with Microsoft Word document formatted for mailing labels (Avery 5160) or four sets of mailing labels were provided.
☒ Source of landowners' info was provided.
☒ Provided response regarding permanent school fund land. Check GLO on contact sheet for Yes.

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

☒ SPIF is provided and complete/information matches application (TPDES only).
☒ SPIF Map is included or confirm USGS map is sufficient.

TECHNICAL REPORT – MUNICIPAL/DOMESTIC APPLICATIONS

☐ **Minor Amendment *without* Renewal.** Review not required. Just make sure report is provided.

THE FOLLOWING ITEMS APPLY TO ALL APPLICATIONS:

☒ Technical Report 1.0, Section 1 – The permitted or proposed design flow is indicated. Flow for Final Phase is used to determine application fee and in the notice.

☐ If flow indicated is greater than permitted, a major amendment is required.
☐ If flow amount is less than permitted amount, confirm with applicant they want to reduce the flow.

☐ The permit authorizes irrigation/evaporation/subsurface disposal method ***(Check current permit "Other Requirements" to see if authorized)*** or if proposed, the information has been addressed in the technical report. Verify the acreage. If the acreage has changed from what is currently permitted, a major amendment is required.

The applicable worksheets must be completed:

- ☐ Worksheet 3.0 - required for land disposal of effluent
- ☐ Worksheet 3.1 - required for land disposal (new and major amendment only)
- ☐ Worksheet 3.2 - required for subsurface land disposal (new and major amendment only)
- ☐ Worksheet 3.3 - required for subsurface area drip dispersal systems (SADDS) (new and major amendment); may be required for renewal on a case-by-case basis.

- ☐ SADDS Applications: Compliance history items must be completed for SADDS disposal. When the application is administratively complete, a copy of the application and a transmittal letter must be sent to the State Department of Health Services. See the folder titled "SADDS" (under the Individual Permit Review folder) for a template of the letter.
- ☐ Worksheet 7.0 – required for SADD applications (new and major amendment only) - We do not review the form; we just make sure that it is submitted. If it is not submitted, request it in a NOD.

☐ Sludge disposal and/or land application is authorized in the permit on property owned or under applicant's control. ***(Check current permit "Sludge Provisions" to see if authorized)***

- ☐ If facility is beneficially applying class B sludge on the same site as the facility, the applicant must submit the Beneficial Land Use of Sewage Sludge (Class B) Permit Application - Form No. 10451 (See Class B Sludge Permit checklist). The applicant must also submit the appropriate sludge application fee.

- ☐ If authorization is for sludge processing, storage, disposal, composting, marketing and distribution of sludge, sludge surface disposal, or sludge monofill or for temporary storage in sludge lagoons, the applicant must submit the Domestic Wastewater Permit Application: Sewage Sludge Technical Report – Form No. 10056.

Check for:

- ☐ required signatures (if applicable)
- ☐ site acreage
- ☐ application area acreage
- ☐ site boundaries shown on USGS map

Notes: If the applicant is disposing or land applying sludge on land owned or under their control, but it is not authorized in their permit or by any other TCEQ authorization, a major amendment is required.

If the application is for a new permit or major amendment, then verify the appropriate affected landowner requirements are met.

WHEN APPLICATION IS NOT ADMINISTRATIVELY COMPLETE:

☒ Complete NOD. See NOD Notes SOP.

WHEN APPLICATION IS ADMINISTRATIVELY COMPLETE:

NORI not required for minor amendment. Complete the Routing and Contact (list "n/a" for item about person responsible for publication of the notice) Blue sheets only.

☐ Complete NORI package. See NORI Notes SOP.

☐ Prepare SPIF forms (only for TPDES permits)
- ☐ checked application type
- ☐ entered county name
- ☐ entered administrative completeness date
- ☐ ensured permit number is on form
- ☐ *check agency receiving SPIF
  - ☐ **Minor amendments -** ALL agencies **BUT** Texas Historical Commission and Army Corps of Engineers
  - ☐ **Renewals –** All agencies **BUT** Texas Historical Commission
  - ☐ **New and Major Amendments –** All agencies
- ☐ check that the segment number (if known) is entered in receiving water body information.
- ☐ On the accompanying map, delineate the discharge route in such a way that copies will reflect the highlighted discharge route.

***NOTE:** Copy of SPIFs not required for Houston – US Fish and Wildlife and Galveston-US Army Corps of Engineers. Reference SPIF Routing Sheet.

Admin Complete PARIS Entry and Other Reminders

WQ Folder - Application Search

Application Summary Tab

☐ Verify application Summary and Details. Update as needed.

Admin Review Tab

☐ Admin Review Begin Date

☐ Admin Complete Date

☐ All NOD Sent, Response Received, Response Complete Dates

☐ SPIF Required (Yes/No)

☐ NORI Required (Yes/No)

Public Participation Tab –

☐ NORI – Date notice is filed with CCO

☐ Public Notice Details – Notice Contact Information

CR Folder – RE Search

AI Detail Screen – Verify AI Details and Physical Address. Update as needed.

View Contact List – Enter or Update Contact Information for these roles:

☐ Owner

☐ Applicant

☐ Technical

☐ Billing

☐ MER (TLAP only)

☐ Remove CN affiliation for MER contact (TLAP and TPDES)

View EPA ID from AI List

☐ View Customer List and verify CN is affiliated to EPA ID or add affiliation.

OTHER

☐ Copy notice (and labels for New and Major Amendments), to H:\EVERYONEWQ\Water Quality App Team\Notice of Receipts

☐ Copy NORI and PLS to H:\EVERYONEWQ\WQD Notices

☐ Copy contact sheet to H:\EVERYONEWQ\Blue Contact Sheets

☐ SADDS – Send letter and copy of complete application to Dept. of Health Services

☐ Email TXDOT if discharge is to a state highway right-of-way or roadside ditch

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ✓ Renewal ✓ Major Amendment ___ Minor Amendment ___ New

County: Brazoria Segment Number: 1108

Admin Complete Date: 1/19/24

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)

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee: Brazoria County Municipal Utility District No. 31

   Permit No. WQ00 14546001 EPA ID No. TX 0126951

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

   2401 County Road 57, Rosharon in Brazoria County 77583

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

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

First and Last Name: Shelley Young

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

Title: Consulting Engineer

Mailing Address: 17230 Huffmeister Road, Suite A

City, State, Zip Code: Cypress, TX 77429

Phone No.: 281-373-0500 Ext.: Click here to enter text. Fax No.: 281-373-1113

E-mail Address: syoung@waterengineers.com

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.

N/A

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

From the plant site to Brazoria County Drainage District (BCDD) 5 ditch, thence to an unnamed tributary, thence to Chocolate Bayou Above Tidal in Segment 1108 of the San Jacinto-Brazos Coastal Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

The plant expansion will encompass approximately 8.0 acres. Minor excavation, less than 10-15', is expected.

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

The additional plant site is currently undeveloped and has been used as farmland.

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

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

See No. 7 above.

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

See No. 7 above.

Leah Whallon

From: Shelley Young <syoung@waterengineers.com>
Sent: Tuesday, January 16, 2024 3:33 PM
To: Leah Whallon
Subject: RE: Application to Amend Permit No. WQ0014546001; Brazoria County Municipal Utility District No. 31
Attachments: ADMIN.04.pdf; Labels.docx; ADMIN.04~Downstream-1.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Leah,

Please see attached.

Regards,
Shelley

Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Monday, January 8, 2024 2:27 PM
To: Shelley Young <syoung@waterengineers.com>
Subject: RE: Application to Amend Permit No. WQ0014546001; Brazoria County Municipal Utility District No. 31

Hi Shelley,

I double checked and all major amendment applications have the same notification requirements, regardless of the type of amendment proposed. The same affected landowner requirements will apply to this application as well. Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

From: Shelley Young <syoung@waterengineers.com>
Sent: Tuesday, January 2, 2024 4:31 PM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: RE: Application to Amend Permit No. WQ0014546001; Brazoria County Municipal Utility District No. 31

Hi Leah,

I was under the impression that since we are not changing the final phase flow or the discharge location that adjacent landowners to the current plant site and downstream landowners do not need to be notified...only the adjacent landowners to the acreage being added.

Shelley

Shelley B. Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Rd.
Cypress, TX ~ 77429
tel: 281-373-0500
fax: 281-373-1113
www.waterengineers.com

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Friday, December 29, 2023 12:35 PM
To: Shelley Young <syoung@waterengineers.com>
Subject: Application to Amend Permit No. WQ0014546001; Brazoria County Municipal Utility District No. 31

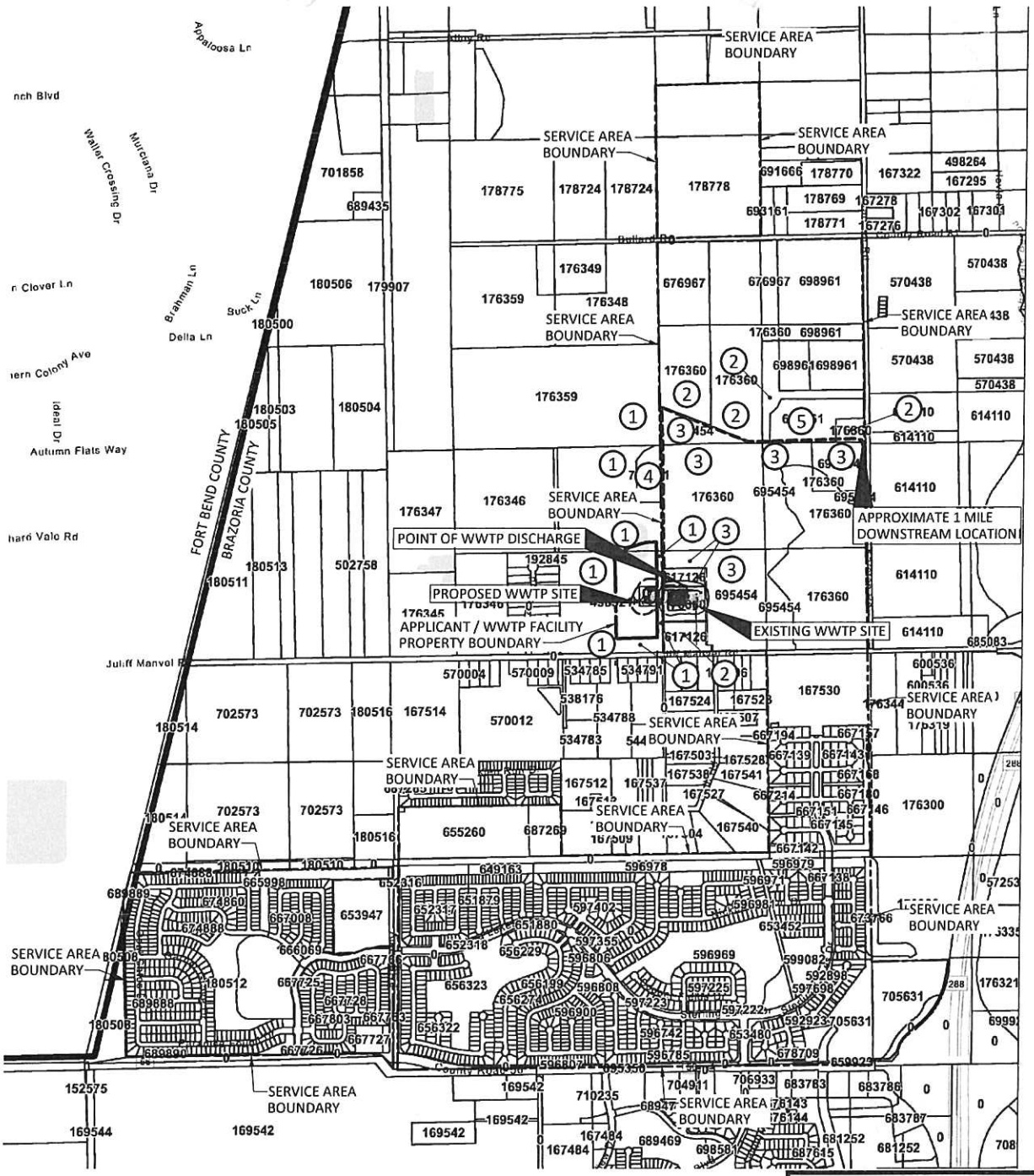
Good Afternoon,

The attached Notice of Deficiency (NOD) letter dated December 29, 2023, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by January 12, 2024.

Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov



LEGEND

① DENOTES LANDOWNER
SEE ATTACHED TABLE FOR LANDOWNERS

PROPOSED SERVICE AREA BOUNDARY

N

0 1000 2000

SCALE:1" = 1000'-0" (24"x36")
1" = 2000'-0" (11"x17" 8.5"x11")

WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
TEL: 281-373-0500
FAX: 281-373-1113

APPLICANT: BRAZORIA COUNTY MUD No. 31
BRAZORIA COUNTY MUD 31 WWTP
APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0014546001

DOWNSTREAM & ADJACENT LANDOWNERS MAP

DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	**ADMIN.04**
SCALE: AS NOTED	
DATE: 1/16/2024	
JOB No.: 6040-23200	

\\server\wei cad\current jobs\6040-23200 brazoria county mud no. 31 major amendment '23\wei current\admin.04.dwg

TABLE "ADMIN.04"

Brazoria County MUD 31
Brazoria County MUD 31 Wastewater Treatment Plant

Adjacent & Downstream Land Ownership Table
Source: Brazoria County Appraisal District

Tract No. (See Attachment "ADMIN.04" Map)	**Title Owner & Address**
1	608 COLONY INVESTMENTS LTD 10003 N W MILITARY HWY SUITE 2201 SAN ANTONIO TX 78231
2	IOWA COLONY STERLING LAKES LTD 2450 FONDREN SUITE 210 HOUSTON TX 77063
3	LGI HOMES-TEXAS LLC 1450 LAKE ROBBINS DRIVE SUITE 430 THE WOODLANDS TX 77380
4	DR HORTON TEXAS LTD 6744 HORTON VISTA DRIVE SUITE 100 RICHMOND TX 77407
5	ALVIN ISD 301 E HOUSE STREET ALVIN TX 77511

608 COLONY INVESTMENTS LTD.
10003 N W MILITARY HWY STE 2201
SAN ANTONIO TX 78231

IOWA COLONY STERLING LAKES LTD
2450 FONDREN SUITE 210
HOUSTON TX 77063

LGI HOMES-TEXAS LLC
1450 LAKE ROBBINS DR SUITE 430
THE WOODLAND TX 77380

DR HORTON TEXAS LTD
6744 HORTON VISTA DR SUITE 100
RICHMOND TX 77407

ALVIN ISD
301 E HOUSE STREET
ALVIN TX 77511

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

PERMISO PROPUESTO NO. WQ00_____

SOLICITUD. Distrito Municipal de Servicios Publicos del Condado de Brazoria Numero 31, 3200 Autopista Suroeste, Oficina 2600, Houston, Tejas 77027, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) modificar el propuesto Permiso No. WQ0014546001 (EPA I.D. No. TX 0126951) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la la adicion de superficie al sitio de la planta y la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio anual de 2,000,000 galones por día. La planta está ubicada a 2401 Carretera del Condado 57, en el Condado de Brazoria, Texas 77583. La ruta de descarga es del sitio de la planta a una zanja del Distrito 5 de Drenaje del Condado de Brazoria, de ahí a un tributario sin nombre; de ahi a West Fork Chocolate Bayou; de ahí a Chocolate Bayou por encima de la marea. La TCEQ recibió esta solicitud el 1 de diciembre de 2023. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca de Manvel, 20514B, Autopista 6, Manvel, Tejas, antes de la fecha de publicación de este aviso en el periódico. 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=-95.43879,29.455264&level=18

[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange.] El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la

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

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

También se puede obtener información adicional del Distrito Municipal de Servicios Publicos del Condado de Brazoria Numero 31 a la dirección indicada arriba o llamando a Shelley Young, P.E., WaterEngineers,Inc. al 281-373-0500.

Fecha de emisión _____ *[Date notice issued]*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 29, 2023

Ms. Shelley Young, P.E.
WaterEngineers, Inc.
17230 Huffmeister Road, Suite A
Cypress, Texas 77429

VIA EMAIL

Re: Application to Amend Permit No. WQ0014546001 (EPA I.D. No. TX0126951)
Issued to Brazoria County Municipal Utility District No. 31
CN602782195, RN104364096

Dear Ms. Young:

We have received the amendment application for the above referenced permit, and it is currently under review. Your attention to the following items is requested before we can declare the application administratively complete.

1. Administrative Report 1.1, Section 1
The affected landowner map must show the complete applicant's property boundary that includes all contiguous property owned by the applicant. Please provide a revised landowner map that shows all contiguous properties as the applicant's property boundary and identifies all landowners adjacent to the applicant's contiguous property boundaries. The landowners for one mile downstream of the point of discharge must also be shown as affected landowners.

   Please include an updated cross-referenced landowner list and the landowner list formatted for mailing labels in electronic format (Avery 5160).

2. The following is a portion of the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. Brazoria County Municipal Utility District No. 31, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014546001 (EPA I.D. No. TX0126951) to authorize the addition of acreage to the plant site and the discharge of treated domestic wastewater at a volume not to exceed an annual average flow of 2,000,000 gallons per day. The domestic wastewater treatment facility is located at 2401 County Road 57, in Brazoria County, Texas 77583. The discharge route is from the plant site to a Brazoria County Drainage District 5 ditch, thence to an unnamed tributary, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal. TCEQ received this application on December 1, 2023. The permit application will be available for viewing and copying at Manvel Library, 20514B Highway 6, Manvel, Texas prior to the date this notice is published in the newspaper. 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=-95.43879,29.455264&level=18

Further information may also be obtained from Brazoria County Municipal Utility District No. 31 at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers, Inc., at 281-373-0500.

3. Administrative Report 1.0, Section 8, Item E, No. 5 indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word Document.

Please submit the complete response, addressed to my attention by January 12, 2024. If you should have any questions, please do not hesitate to call me at (512) 239-0084.

Sincerely,

Leah Whallon

Leah Whallon
Application Review and Processing Team (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

Enclosures:
Municipal Discharge Amendment Spanish NORI

Return to Sharenet

Central Registry Internal Reporting

Main Query Page | Program Area Search

Additional ID Detail

Additional ID Program	WWPERMIT		**Legacy System (Code)**	(WQ)	
Additional ID	WQ0014546001	**Status**	ACTIVE	**ID Type**	PERMIT
Name	BRAZORIA COUNTY MUD 31 WWTP			**Sec. Addn Id**	TX0126951, EPA ID
Physical Address	2401 CEDAR RAPIDS PKWY, ROSHARON, TX 77583				
Description					
County	BRAZORIA	**Region**	REGION 12 - HOUSTON		
Nearest City	ROSHARON	**State**	TX	**Nearest Zip**	77583
Latitude	29° 27 min 19 sec (29.455264)		**Longitude**	95° 26 min 20 sec (-95.43879)	

Map It | Copy Map It URL

Industry Types

Classification System	Code	Name	Primary Flag
NAICS	221320	Sewage Treatment Facilities	Y
SIC	4952	Sewerage Systems	Y

Industry Type: (1-2 of 2 Records)

Site Classifications

Program	Site Classification	Begin Date	End Date	CMS Min Freq Qty
WASTEWATER	DOMESTIC MINOR	01/1/1800	12/31/3000	0

Site Classification: (1-1 of 1 Record)

Customers

List All

CN Number	Name ▲	Role
CN602782195	BRAZORIA COUNTY MUD 31	OWN

Customers: (1-1 of 1 Record)

Issued To

CN Number	Issued To Name	Start Date	'Issued To' History
CN602782195	Brazoria County Municipal Utility District 31	06/26/2019	View

Issued To: (1-1 of 1 Record)

Regulated Entity

Reference Number	RN104364096	**Name**	BRAZORIA COUNTY MUD 31 WWTP	**Stand-Alone**	N
Business Description	DOMESTIC				

Location

Address	Not on file				
Description	Approx 5000 ft West of State Hwy 288, immediately North of County Road 57				
County	BRAZORIA		**Region**	REGION 12 - HOUSTON	
Nearest City	ROSHARON	**State**	TX	**Nearest Zip**	77583
Latitude			**Longitude**		

Last Modified 2023-12-08 - Production v2.1.5

District Name: BRAZORIA COUNTY MUD 31 (1635594)

Affiliations Documents

Responsible Party

Customers

Reference Number	Name	Role
CN602782195	BRAZORIA COUNTY MUD 31	RESPONSIBLE PARTY

Official Address / Phone

Address: **3200 SOUTHWEST FWY STE 2600**
ALLEN BOONE HUMPHRIES ROBINSON LLP
HOUSTON , TEXAS 77027-7537

Telephone: **(713) 860-6400**

Properties

CR Regulated Entity Number: **RN104523022**

CCEDS Status: **NO ACTIVE NOE EXISTS**

District Type: **MUNICIPAL UTILITY DISTRICT**

Creation Type: **TCEQ**

Primary County: **BRAZORIA**

Financial Status: **AUDIT FILED**

Acre Size: **692.6**

Directors: **5**

Closure: **Y**

Comments

Comment Date	Text	Staff Name
03/27/2023	DISTRICT SENT IN THE INDEPENDENT ACCOUNTANT'S REPORT DATED 09/22/2022 IN CONNECTION WITH APPLYING AGREED-UPON PROCEDURES.	JACOB HOUSTON
07/17/2020	District sent in use of Surplus Funds pursuant to 30 TAC Section 293.83(c)(3)(A) in the amount of $466,000 for the replacement of Water Plant No. 1 ground storage tank No. 1.	JAMES WALKER
07/16/2020	Independent accountant's report on applying agreed-upon procedures on amounts reimbursable to developers on May 26, 2020.	STEPHANIE DESOUZA
03/12/2020	District sent in Official Statement dated 03/01/2020. $7,100,000 Unlimited Tax Bonds, Series 2020.	STEPHANIE DESOUZA
10/08/2018	District sent in the Official Statement dated 7/26/2018. $9,000,000 Brazoria County MUD 31 Unlimited Tax Bonds, Series 2018.	JAMES WALKER
09/21/2018	District sent in the Independent Accountants Report dated 08/23/2018.	
05/01/2017	District sent in the Independent Accountant's Report dated 03/30/2017	ALEX BUTLER
04/19/2017	District sent in the agreed upon reports and procedures date 01/23/2017	ALEX BUTLER

01/26/2017	District sent in Escrow Agreement (signed on 09/21/2016) on 01/26/2017
05/23/2016	District added 27.797 acres on 07/23/2016.
09/15/2005	The proposed District shall consist of approximately 692.60 acres of land described by metes and bounds in Exhibit "A", and is depicted in the vicinity map designated as Exhibit "B", and is within the extraterritorial jurisdiction and corporate limits of the City of Iowa Colony, Texas.

Occurrences retrieved.

Functions

Function	Entry Date
DRAINAGE	09/15/2005
EMINENT DOMAIN	09/15/2005
FLOOD CONTROL	09/15/2005
HYDROELECTRIC	09/15/2005
IRRIGATION	09/15/2005
NAVIGATION	09/15/2005
RECREATION AND PARKS	09/15/2005
ROAD POWERS	09/15/2005
STREET LIGHTING	09/15/2005
SUPPLY TREATED OR RETAIL WATER	09/15/2005
SUPPLY RAW (UNTREATED) OR WHOLESALE WATER	09/15/2005
TAX BOND AUTHORITY	09/15/2005

Occurrences retrieved.

Associated Public Water Systems

PWS Name	PWSID	Status	CCN	Utility Name
BRAZORIA COUNTY MUD 31	0200645	ACTIVE	P1371	BRAZORIA COUNTY MUD 31

Water System occurrences retrieved.

Associated Utility Systems

Utility Name	Status	CCN
BRAZORIA COUNTY MUD 31	ACTIVE	P1371

Utility occurrences retrieved.

Counties

Code	County Name	Primary
20	BRAZORIA	Y

Occurrences retrieved.

Activity

Creation Date: **09/02/2005**

Activity Date: **02/19/2008**

Activity Status: **ACTIVE**

Activity Reason: **AUDIT**

Last Registration Date: **10/24/2019**

Run District Information Report
Show Map

District successfully retrieved.

Look Up a ZIP Code™ FAQs

Go to

ZIP Code™ by Address

You entered:

17230 HUFFMEISTER RD STE A
CYPRESS TX

If more than one address matches the information provided, try narrowing your search by entering a street address and, if applicable, a unit number. **Edit and search again. (zip-code-lookup.htm?byaddress)**

17230 HUFFMEISTER RD STE A
CYPRESS TX **77429-1643**

Look Up Another ZIP Code™

Edit and Search Again (/zip-code-lookup.htm?byaddress)

Look Up a ZIP Code™ FAQs

Go to

ZIP Code™ by Address

You entered:

3200 SOUTHWEST FWY STE 2600
HOUSTON TX

If more than one address matches the information provided, try narrowing your search by entering a street address and, if applicable, a unit number. **Edit and search again. (zip-code-lookup.htm?byaddress)**

3200 SOUTHWEST FWY STE 2600
HOUSTON TX **77027-7537**

Look Up Another ZIP Code™

Edit and Search Again (/zip-code-lookup.htm?byaddress)

Location Mapper Version 4.2 User Guide Boundary Mapper

600ft

-95.439 29.455 Degrees

Look Up a ZIP Code™ FAQs

Go to

ZIP Code™ by Address

You entered:

2401 COUNTY ROAD 57
ROSHARON TX

If more than one address matches the information provided, try narrowing your search by entering a street address and, if applicable, a unit number. **Edit and search again. (zip-code-lookup.htm?byaddress)**

2401 CEDAR RAPIDS PKWY
ROSHARON TX **77583-**

Look Up Another ZIP Code™

Edit and Search Again (/zip-code-lookup.htm?byaddress)

Water Quality Receipt Report

DEC-28-23 09:00 PM

Paid In By: WATERENGINEERS INC

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M405885A	10375001	CK	1217		30-NOV-23	-$2000.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M405885B	10375001	CK	1217		30-NOV-23	-$15.00
WATER QUALITY PERMIT APPLICATION	WQP	M405966	15972001	CK	1218		01-DEC-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M406604A	14546001	CK	1224		07-DEC-23	-$2000.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M406604B	14546001	CK	1224		07-DEC-23	-$50.00
WATER QUALITY PERMIT APPLICATION	WQP	M407304A	13940001	CK	1235		18-DEC-23	-$800.00
WATER QUALITY PERMIT APPLICATION	WQP	M407303	16001001	CK	1234		18-DEC-23	-$100.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M407304B	13940001	CK	1235		18-DEC-23	-$15.00

Paid In By: WATERFLEET LLC

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M312111		CK	19555		17-FEB-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M318683		CK	20220		13-JUL-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M318684		CK	20301		13-JUL-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M401279		CK	20803		17-OCT-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M401280		CK	20801		17-OCT-23	-$100.00

Paid In By: WATERWORKS UTILITY INC

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M407507A	13075001	CK	1155		18-DEC-23	-$300.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M407507B	13075001	CK	1155		18-DEC-23	-$15.00

Paid In By: WAYNE TURNEY

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	PI00878500	640812	IFCE	582EA0005 49822		18-MAY-23	-$1200.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	PI00878499	640813	IFCE	582EA0005 49822		18-MAY-23	-$50.00

Paid In By: WCM GROUP INC (THE)

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M400131		CK	4526		05-SEP-23	-$100.00

Paid In By: WEBSTER, CITY OF

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M316823A	10520001	CK	137223		23-MAY-23	-$2000.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M316823B	10520001	CK	137223		23-MAY-23	-$15.00

Customer Name: BRASUELL WAYNETTE POLLOCK
Account #: 0034360U Debtcollpath Stage: UNCOL:EXHAUST Calls:

UST	SC2305-004	LATE FEE FOR UST0527396		0000045831	10-JAN-03	10-FEB-03	$.66
UST	SC2305-003	LATE FEE FOR UST0557796		0000045831	10-JAN-03	10-FEB-03	$.66
UST	SC2305-005	LATE FEE FOR UST0501219		0000045831	10-JAN-03	10-FEB-03	$.66
UST	SC2305-001	LATE FEE FOR UST0607632		0000045831	10-JAN-03	10-FEB-03	$.66
UST	UST0631899	U'GROUND TANK FEE TANKS:FY04		0000045831	30-SEP-03	31-OCT-03	$150.00
UST	UST0716237	U'GROUND TANK FEE TANKS:FY07		0000045831	30-NOV-09	31-DEC-09	$150.00
UST	UST0716238	U'GROUND TANK FEE TANKS:FY06		0000045831	30-NOV-09	31-DEC-09	$150.00
UST	UST0716239	U'GROUND TANK FEE TANKS:FY05		0000045831	30-NOV-09	31-DEC-09	$150.00

Total of delinquent transactions (Account): $2844.36
Total of delinquent transactions (Customer): $2844.36

Customer Name: BRAWLER MANUFACTURING LLC
Account #: 20042545 Debtcollpath Stage: WHOLD:REFERRED,UNCOL:EXHAUST Calls:

GPS	GPS0204275	GEN PMTS STORMWTR	FY17	TXR05CB87	31-DEC-16	31-JAN-17		$200.00
GPS	SC00201455	LATE FEE - FEB 2017			10-FEB-17	10-FEB-17		$10.00
GPS	SC00204221	LATE FEE - MAR 2017			10-MAR-17	10-MAR-17		$10.00

Total of delinquent transactions (Account): $220.00
Total of delinquent transactions (Customer): $220.00

Customer Name: BRAY'S CLEANERS & FURRIERS
Account #: 0302903G Debtcollpath Stage: WHOLD:REFERRED,UNCOL:EXHAUST Calls:

HWG	HWG0030480	HAZ WASTE GEN FEE TONS: FY96		0000069352	27-FEB-96	27-MAR-96	$100.00

Total of delinquent transactions (Account): $100.00
Total of delinquent transactions (Customer): $100.00

Customer Name: BRAZORIA COUNTY MUD 40
Account #: 23007694 Debtcollpath Stage: Calls:

CWQ	SC00338016	LATE FEE - DEC 2023			10-DEC-23	10-DEC-23	$108.65

Total of delinquent transactions (Account): $108.65
Total of delinquent transactions (Customer): $108.65

Customer Name: BRAZOS BEND HOME & RANCH
Account #: 90790184 Debtcollpath Stage: AGENCY:REFERRED,WHOLD:REFERRED Calls:

PHS	PHS0117329	WATER SYSTEM FEE	FY10	0790184	30-NOV-09	31-DEC-09	$100.00
PHS	SC00023933	LATE FEE - FEB 2010			10-FEB-10	10-FEB-10	$5.00
PHS	SC00026391	LATE FEE - MAR 2010			10-MAR-10	10-MAR-10	$.35
PHS	SC00028338	LATE FEE - APR 2010			12-APR-10	12-APR-10	$.35
PHS	SC00030163	LATE FEE - MAY 2010			10-MAY-10	10-MAY-10	$.35
PHS	SC00031783	LATE FEE - JUN 2010			10-JUN-10	10-JUN-10	$.35
PHS	SC00033205	LATE FEE - JUL 2010			12-JUL-10	12-JUL-10	$.35
PHS	SC00034716	LATE FEE - AUG 2010			10-AUG-10	10-AUG-10	$.35
PHS	SC00036422	LATE FEE - SEP 2010			10-SEP-10	10-SEP-10	$.35
PHS	SC00038149	LATE FEE - OCT 2010			11-OCT-10	11-OCT-10	$.35
PHS	SC00039979	LATE FEE - NOV 2010			10-NOV-10	10-NOV-10	$.35
PHS	PHS0124199	WATER SYSTEM FEE	FY11	0790184	30-NOV-10	31-DEC-10	$100.00
PHS	SC00042113	LATE FEE - DEC 2010			10-DEC-10	10-DEC-10	$.35
PHS	SC00044192	LATE FEE - JAN 2011			10-JAN-11	10-JAN-11	$5.35
PHS	SC00047342	LATE FEE - FEB 2011			10-FEB-11	10-FEB-11	$5.35
PHS	SC00050055	LATE FEE - MAR 2011			10-MAR-11	10-MAR-11	$.70
PHS	PHS0124199	COLLECTION COST RECOVERY			01-APR-11	01-APR-11	$21.50
PHS	SC00052217	LATE FEE - APR 2011			11-APR-11	11-APR-11	$.70
PHS	SC00054224	LATE FEE - MAY 2011			10-MAY-11	10-MAY-11	$.70
PHS	SC00055991	LATE FEE - JUN 2011			10-JUN-11	10-JUN-11	$.70
PHS	SC00057761	LATE FEE - JUL 2011			11-JUL-11	11-JUL-11	$.70
PHS	SC00059544	LATE FEE - AUG 2011			10-AUG-11	10-AUG-11	$.70
PHS	SC00061294	LATE FEE - SEP 2011			12-SEP-11	12-SEP-11	$.70

Manvel Library

4.9 (29)
Public library

Overview Reviews About

Directions Save Nearby Send to phone Share

20514B Hwy 6, Manvel, TX 77578

Open now

Friday	10 AM–6 PM
Saturday	10 AM–6 PM
Sunday (New Year's Eve)	Closed Holiday hours
Monday (New Year's Day)	Closed Holiday hours
Tuesday	10 AM–8 PM
Wednesday	10 AM–6 PM
Thursday	10 AM–8 PM

Suggest new hours

mybcls.org

(281) 489-7596

TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of 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 **with major amendment**

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 602782195		RN 104364096

SECTION II: Customer Information

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

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

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

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

Brazoria County MUD No. 31

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

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ 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 ☐ Voluntary Cleanup Applicant ☐ Other:

RECEIVED
DEC 01 2023
Water Quality Applications Team

15. Mailing Address:

c/o Allen Boone Humphries Robinson
3200 Southwest Freeway, Suite 2600

City	State	ZIP	ZIP + 4
Houston	TX	77027	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	acatalan@abhr.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(713) 800-6983		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☐ 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 Agency 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.)*

Brazoria County MUD 31 Wastewater Treatment Plant

23. Street Address of the Regulated Entity: *(No PO Boxes)*	2401 Coun oad 57							
	City	Rosharon	**State**	TX	**ZIP**	77583	**ZIP + 4**	
24. County	Brazoria							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
Rosharon			TX		77583
27. Latitude (N) In Decimal:	29.455264		**28. Longitude (W) In Decimal:**	95.438792	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	27	18.95	-95	26	19.65

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.)*

Municipal Utility District

34. Mailing Address:	**c/o Allen Boone Humphries Robinson**							
	3200 Southwest Freeway, Suite 2600							
	City	**Houston**	**State**	**TX**	**ZIP**	**77027**	**ZIP + 4**	
35. E-Mail Address:	**bryant.cook@hines.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(713) 237-5691		**( ) -**

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	☒ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0014546001			

RECEIVED
DEC 0 1 2023
Water Quality Applications Team

SECTION IV: Preparer Information

40. Name:	Shelley Young	**41. Title:**	Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(281) 373-0500		(281) 373-1113	syoung@waterengineers.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:	WaterEngineers, Inc.	**Job Title:**	Engineer
Name *(In Print):*	Shelley Young	**Phone:**	(281) 373- 0500
Signature:	Shelley Young	**Date:**	11/28/2023

Receiving Water Assessment Determination Form for new and amended TPDES permit applications

Submit to Standards Implementation Team for review.

WQ Permit Number 14546-001

Applicant Brazoria County MUD No. 31

Region 12

County Brazoria

() New Application **(X) Major Amendment**

Discharge route for 1 (one) mile from point of discharge does contain water affected by tidal?

() Yes **(X) No**

Receiving Water Assessment Required **() Yes (X) No**

Segment 1108

Discharge route description to a Brazoria County Drainage District 5 ditch (101-05-02-01), thence to an unnamed tributary, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal (1108).

Additional Comments Amending to add an interim phase of 1.15 MGD, with phases 0.9/1.15/2.0 MGD. See prev. reviews.

Dissolved solids screening passed, saved in H.

M. A. Wallace, PhD; 12/5/23

IINDUSTRIAL/MUNICIPAL APPLICATIONS ROUTE SHEET

New_____

Major Amend X

Minor Amend___

Renewal X

Major Facility X

Application Reviewer ✓ *Technical Reviewer*__

Final Flow ≥ ***1MGD*** 2.0

DATE APPLICATION RECEIVED 12/01/2023

PERMIT NUMBER 0014546001

PRE PREVIEW BY STANDARDS (RWA) 12/01/23 **N/A**_____
Route original application of new and major amendments, discharge only. The original application must be returned to the applications team within 4 hours of receipt.

PRE PREVIEW BY GROUNDWATER _____ **N/A** X
TLAP Only: Route copy of new and major amend.

PRE TECH REVIEW REQUIRED 12/01/23 **N/A**_____
Route copy of new, major amendments, major facilities or final flow ≥ 1MGD for Municipal.

COASTAL ZONE DETERMINATION _____ **N/A** X
Route copy of new application or major amendment when the facility is located in the noted county

COMMENTS ARE DUE TO APPLICATIONS TEAM BY CLOSING ON 12/11/2023

PRE TECH REVIEW PERFORMED BY_____

THE ATTACHMENT SHOULD BE PROVIDED TO THE APPLICATIONS TEAM AT THE END OF THE 5TH WORKING DAY

Coastal Zone Determination

(To Be Verified Upon Receipt Of The Application)

Permit Number 0014546001 **County** Brazoria

Indicate Type of Application:

☒ **Renewal** ☐ **Minor Amendment** ☒ **Major Amendment**

Is the facility on the Coastal Zone list?

☐ YES (Coastal Zone statement will be included in the "Notice of Draft Permit") (If a major amendment - statement will be included in the "Notice of Receipt")

☒ NO (Do not include statement in any notice)

☐ **New** ☐ **Major Amendment**

Is the facility located in one of the following counties?

☐ Aransas	☐ Galveston	☐ Kleberg	☐ San Patricio
☐ Brazoria	☐ Harris	☐ Matagorda	☐ Victoria
☐ Calhoun	☐ Jackson	☐ Nueces	☐ Willacy
☐ Cameron	☐ Jefferson	☐ Orange	
☐ Chambers	☐ Kenedy	☐ Refugio	

☐ YES Send the application to Water Quality Assessment Team for Coastal Zone Determination.

☐ NO No further review needed (Do not include statement in any notice)

Water Quality Assessment Team's determination:

Is the discharge in the Coastal Zone?

☐ YES Coastal Zone statement shall be included in the Admin Complete Notice

☐ NO Do not include statement in the Admin Complete Notice

Return to Applications Team by _____