



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 RENEWAL

PERMIT NO. WQ0012044001

APPLICATION. Harris County Municipal Utility District No. 368, c/o Johnson Petrov LLP, 2929 Allen Parkway, Suite 3150, Houston, Texas 77019, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012044001 (EPA I.D. No. TX0078433) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,600,000 gallons per day. The domestic wastewater treatment facility is located at 19744 1/2 Logan Briar Drive, Tomball, in Harris County, Texas 77375. The discharge route is from the plant site to a Harris County Flood Control District ditch; thence to Willow Creek; thence to Spring Creek. TCEQ received this application on February 6, 2023. The permit application will be available for viewing and copying at Texas Commission on Environmental Quality, Region 12, 5425 Polk Street, Suite H, Houston, 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=-95.597222,30.050833&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. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

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

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

AGENCY CONTACTS AND INFORMATION. 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 Harris County Municipal Utility District No. 368 at the address stated above or by calling Mr. Kameron Pugh, P.E., District Engineer, IDS Engineering Group, at 832-590-7187.

Issuance Date: March 23, 2023

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0012044001

SOLICITUD. Harris County Municipal Utility District No. 368, c/o Johnson Petrov, LLP, 2929 Allen Parkway, Suite 3150, Houston, Texas 77019, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0012044001 (EPA I.D. No. TX0078433) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 1,600,000 galones por día. La planta está ubicada 19744 1/2 Logan Briar Drive, Tomball, en el Condado de Harris, Texas. La ruta de descarga es del sitio de la planta a una zanja del Distrito de Control de Inundaciones del Condado de Harris; de allí a Willow Creek; de allí a Spring Creek. La TCEQ recibió esta solicitud el February 6, 2023. La solicitud para el permiso estará disponible para leerla y copiarla en la Comisión de Calidad Ambiental del Estado de Texas (TCEQ), Region 12, 5425 Polk Street, Suite H, Houston, Texas, 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=-95.597222,30.050833&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 todos los comentarios públicos.

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

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

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

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

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

solicitudes deben ser presentadas electrónicamente vía

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

También se puede obtener información adicional del Harris County Municipal Utility District No. 368 a la dirección indicada arriba o llamando a Señor Kameron Pugh, P.E., District Engineer, IDS Engineering Group, al 832-590-7187.

Fecha de emission: 23 de marzo de 2023

Texas Commission on Environmental Quality



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

RENEWAL

PERMIT NO. WQ0012044001

APPLICATION AND PRELIMINARY DECISION. Harris County Municipal Utility District No. 368, c/o Johnson Petrov LLP, 2929 Allen Parkway, Suite 3150, Houston, Texas 77019, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012044001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 1,600,000 gallons per day. TCEQ received this application on February 6, 2023.

The facility is located at 19744 ½ Logan Briar Drive, in Harris County, Texas 77375. The treated effluent is discharged to Harris County Flood Control District (HCFCD) ditch M122-00-00, thence to Willow Creek, thence to Spring Creek in Segment No. 1008 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for HCFCD and high aquatic life use for Willow Creek. The designated uses for Segment No. 1008 are primary contact recreation, public water supply, and high aquatic life use. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.597222,30.050833&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 the Texas Commission on Environmental Quality, Region 12, 5425 Polk Street, Suite H, Houston, 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. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

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

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

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

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

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

Further information may also be obtained from the Harris County Municipal Utility District No. 368 at the address stated above or by calling Mr. Kameron Pugh, P.E., District Engineer, IDS Engineering Group, at 832-590-7187.

Issuance Date: June 6, 2025

Texas Commission on Environmental Quality



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

RENOVACIÓN

PERMISO NO. WQ0012044001

SOLICITUD Y DECISIÓN PRELIMINAR. Harris County Municipal Utility District No. 368, c/o Johnson Petrov LLP, 2929 Allen Parkway, Suite 3150, Houston, Texas 77019, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) una renovación del Permiso No. WQ0012044001, que autoriza la descarga de aguas residuales domésticas tratadas a un caudal promedio anual que no exceda los 1,600,000 galones por día. TCEQ recibió esta solicitud el 6 de febrero de 2023.

La instalación está ubicada en 19744 1/2 Logan Briar Drive, en el Condado de Harris, Texas 77375. El efluente tratado se descarga en Harris County Flood Control District (HCFCD) ditch M122-00-00, de allí a Willow Creek, de allí a Spring Creek en el Segment No. 1008 de la San Jacinto River Basin. Los usos no clasificados del agua receptora son el uso mínimo de vida acuática para HCFCD y el uso de alta vida acuática para Willow Creek. Los usos designados para el Segment No. 1008 son la recreación de contacto primario, el suministro de agua pública y el uso de alta vida acuática. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no es parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.597222,30.050833&level=18>

El Director Ejecutivo de la TCEQ ha completado el examen técnico de la solicitud y ha preparado un proyecto de permiso. El borrador del permiso, de ser aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar de que este permiso, si se expide, cumple con todos los requisitos legales y reglamentarios. La solicitud de permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para su visualización y copia en la Texas Commission on Environmental Quality, Region 12, 5425 Polk Street, Suite H, Houston, Texas.

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-notice>.

COMENTARIO PÚBLICO / REUNIÓN PÚBLICA. Puede enviar comentarios públicos o solicitar una reunión pública sobre esta solicitud. El propósito de una reunión pública es brindar la oportunidad de enviar comentarios o hacer preguntas sobre la solicitud. TCEQ lleva a cabo 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 todos los comentarios oportunos y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. **A menos que la solicitud se remita directamente para una audiencia de caso impugnado, la respuesta a los comentarios se enviará por correo a todos los que presentaron comentarios públicos y a las personas que están en la lista de correo de esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia de caso impugnado o una reconsideración de 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, DEBE INCLUIR LOS SIGUIENTES ELEMENTOS EN SU SOLICITUD: su nombre, dirección, número de teléfono; nombre del solicitante y número de permiso propuesto; la ubicación y distancia de su propiedad/actividades en relación con la instalación propuesta; una descripción específica de cómo se vería afectado negativamente por la instalación de una manera que no es común para el público en general; una lista de todas las cuestiones de hecho en disputa que envíe durante el período de comentarios; y la declaración "[Yo/nosotros] solicito una audiencia de caso impugnado". Si la solicitud de audiencia de caso impugnado se presenta en nombre de un grupo o asociación, la solicitud debe designar al representante del grupo para recibir correspondencia futura; identificar por nombre y dirección física a un miembro individual del grupo que se vería afectado negativamente por la instalación o actividad propuesta; proporcionar la información mencionada anteriormente con respecto a la ubicación y la distancia del miembro afectado de la instalación o actividad; explicar cómo y por qué el miembro se vería afectado; y explicar cómo los intereses que el grupo busca proteger son relevantes para el propósito del grupo.

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

La Comisión solo puede conceder una solicitud de audiencia de un caso impugnado sobre cuestiones que el solicitante presentó en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de una audiencia se limitará a cuestiones de hecho en disputa o preguntas mixtas de hecho y derecho relacionadas con preocupaciones relevantes y materiales sobre la calidad del agua presentadas durante el período de comentarios. TCEQ puede actuar sobre una solicitud para renovar un permiso para la descarga de aguas residuales sin brindar la oportunidad de una audiencia de caso impugnado si se cumplen ciertos criterios.**

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 a tiempo 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 presenta comentarios públicos, una solicitud para 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 avisos públicos futuros enviados por correo por la Oficina del Secretario Principal. Además, puede solicitar ser incluido en: (1) la lista de

correo permanente para un nombre de solicitante específico y un número de permiso; y/o (2) la lista de correo de un condado específico. Si desea ser incluido en la lista de correo permanente y/o del condado, especifique claramente qué lista(s) y envíe su solicitud a la Oficina del Secretario Principal de TCEQ a la dirección que se indica a continuación.

Todos los comentarios públicos por escrito y las solicitudes de reuniones públicas deben enviarse a la Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente en 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 más información 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 públicos y las solicitudes deben presentarse electrónicamente en www.tceq.texas.gov/goto/comment, o por escrito a la 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 se convertirá en parte del registro de la agencia; Esto incluye direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al TCEQ Public Education Program, Toll Free, at 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 en la Harris County Municipal Utility District No. 368 en la dirección indicada anteriormente o llamando al Sr. Kameron Pugh, P.E., District Engineer, IDS Engineering Group, at 832-590-7187.

Fecha de emisión: 6 de junio de 2025



TPDES PERMIT NO. WQ0012044001
[For TCEQ office use only - EPA I.D.
No. TX0078433]

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

This is a renewal that replaces TPDES
Permit No. WQ0012044001 issued on
July 16, 2018.

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

Harris County Municipal Utility District No. 368

whose mailing address is

c/o Johnson Petrov LLP

2929 Allen Parkway, Suite 3150
Houston, Texas 77019

is authorized to treat and discharge wastes from the Harris County MUD 368 Wastewater
Treatment Facility, SIC Code 4952

located at 19744 1/2 Logan Briar Drive, in Harris County, Texas 77375

to Harris County Flood Control District (HCFCD) ditch M122-00-00, thence to Willow Creek,
thence to Spring Creek in Segment No. 1008 of the San Jacinto River Basin

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

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

ISSUED DATE:

For the Commission

INTERIM I EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of issuance and lasting through the completion of expansion to the 1.275 million gallons per day (MGD) facilities, 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 mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Daily Max. Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (75)	15	25	35	One/week	Composite
Total Suspended Solids	15 (113)	25	40	60	One/week	Composite
Ammonia Nitrogen	3 (22)	6	10	15	One/week	Composite
Total Aluminum	Report (Report)	N/A	Report	N/A	One/week	Composite
Total Zinc	Report (Report)	N/A	Report	N/A	One/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	63	N/A	200	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. 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 (SU) nor greater than 9.0 SU 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 6.0 mg/l and shall be monitored once per week by grab sample.

INTERIM II EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the completion of expansion to the 1.275 million gallons per day (MGD) facility and lasting through the completion of the 1.60 MGD facility, the permittee is authorized to discharge subject to the following effluent limitations:

The annual average flow of effluent shall not exceed 1.275 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,542 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (106)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (160)	25	40	60	Two/week	Composite
Ammonia Nitrogen	2 (21)	5	10	15	Two/week	Composite
Total Aluminum	Report (Report)	N/A	Report	N/A	One/week	Composite
Total Zinc	Report (Report)	N/A	Report	N/A	One/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	63	N/A	200	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 (SU) nor greater than 9.0 SU and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 5.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon completion of expansion to the 1.60 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 1.60 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 4,444 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	Daily Max. Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (133)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (200)	25	40	60	Two/week	Composite
Ammonia Nitrogen	2 (27)	5	10	15	Two/week	Composite
Total Aluminum	Report (Report)	N/A	Report	N/A	One/week	Composite
Total Zinc	Report (Report)	N/A	Report	N/A	One/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	63	N/A	200	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 (SU) nor greater than 9.0 SU 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 n th root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
 - f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as $(\text{Flow, MGD} \times \text{Concentration, mg/l} \times 8.34)$.
 - 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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.

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SLUDGE PROVISIONS

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

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

A. General Requirements

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

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested once during the term of the permit for the Interim I phase and annually for the Interim II 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. This annual report shall be submitted to the TCEQ Regional Office (MC Region 12) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

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

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 – 3, the following site restrictions must be met if Class B biosolids are land applied:

- i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
 - ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.
4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

- Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

- i. Biosolids shall be injected below the surface of the land.
- ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.
- iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10 -

- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test

- once during the term of the permit for the Interim I phase and annually for the Interim II and Final phases

PCBs

- once during the term of the permit for the Interim I phase and annually for the Interim II 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):

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

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

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

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

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

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

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.
2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
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 report annually to the TCEQ Regional Office (MC Region 12) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
5. Toxicity Characteristic Leaching Procedure (TCLP) results.
6. PCB concentration in sludge or biosolids in mg/kg.
7. Identity of hauler(s) and TCEQ transporter number.
8. Date(s) of transport.
9. Texas Commission on Environmental Quality registration number, if applicable.
10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.
17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
 - a. The location, by street address, and specific latitude and longitude.
 - b. The number of acres in each site on which bulk biosolids are applied.
 - c. The date and time bulk biosolids are applied to each site.
 - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
 - e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. 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 the permit for the Interim I phase and annually for the Interim II 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 Compliance Monitoring Team (MC 224) of the Enforcement Division 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 report annually to the TCEQ Regional Office (MC Region 12) and Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

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

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

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

A. General Requirements

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

B. Record Keeping Requirements

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

C. Reporting Requirements

The permittee shall report the following information annually to the TCEQ Regional Office (MC Region 12) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

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OTHER REQUIREMENTS

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

This Category C facility for the Interim I phase and Category B facility for the Interim II and Final phases must be operated by a chief operator or an operator holding a Category C license or higher for the Interim I phase, and a Category B license or higher for the Interim II and Final phases. 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. By ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e)(1) for the Interim I phase facility. For the Interim II and Final phase facilities, the permittee shall also provide nuisance odor prevention for the headworks and the digesters in accordance with 30 TAC § 309.13(e)(2). Prior to construction of the Interim II and Final phase facilities, the permittee shall submit a nuisance odor prevention request for approval by the Executive Director in care of the TCEQ Wastewater Permitting Section (MC 148). The request for a nuisance odor prevention plan shall be in the form of an engineering report, prepared and sealed by a licensed professional engineer, in support of the request according to the requirements of 30 TAC § 309.13(e)(2). The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). (See Attachments A and B.)
5. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.
6. The permittee shall comply with 30 TAC § 311.36, which requires the permittees of all domestic wastewater treatment facilities discharging into the Lake Houston Watershed to install dual-feed chlorination systems capable of automatically changing from one cylinder to another if gaseous chlorination is used for disinfection.
7. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ 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 phase and one/week may be reduced to two/month in the Interim II 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.

8. Prior to construction of the treatment facilities in the Interim II 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 Pages 2a and 2b 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.
9. 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, as well as the Harris County Pollution Control Services Department, in writing at least forty-five (45) days prior to the completion of the Interim II and Final phase facilities on Notification of Completion Form 20007.

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 from the 1.275 MGD 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 29%, 38%, 51%, 68%, and 90% effluent. The critical dilution, defined as 90% 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 Date Time Date Time
 Composites No. 1 FROM: _____ TO: _____
 Collected 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%	29%	38%	51%	68%	90%
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 (90%): _____ YES _____ NO

PERCENT SURVIVAL

Time of Reading	Percent effluent					
	0%	29%	38%	51%	68%	90%
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 (90%): _____ 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 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%									
29%									
38%									
51%									
68%									
90%									

* 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 (90%): _____ YES _____ NO

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

a.) NOEC survival = _____ % effluent

b.) LOEC survival = _____ % effluent

c.) NOEC growth = _____ % effluent

d.) LOEC growth = _____ % effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

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

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. Within 90 days of initial discharge from the 1.275 MGD 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. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
 - d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
2. Required Toxicity Testing Conditions

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

- b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- c. Samples and Composites
 - 1) The permittee shall collect one composite sample from Outfall 001.
 - 2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.
 - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
 - 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
 - 5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

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

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.
 - 1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

- 2) For the fathead minnow, Parameter TIE6C, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a “1.”
- d. Enter the following codes for retests only:
 - 1) For retest number 1, Parameter 22415, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a “1.”
 - 2) For retest number 2, Parameter 22416, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a “1.”

4. Persistent Mortality

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

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

- 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
 - 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
 - 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization - The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
- 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

- 3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

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

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

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

schedule for implementing the selected control mechanism. 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
Nuisance Odor Prevention Plan
WQ0012044001 – Harris County Municipal Utility District No. 368

ATTACHMENT A
NUISANCE MITIGATION PLAN FOR THE
HARRIS COUNTY M.U.D. 368
WASTEWATER TREATMENT PLANT

Background:

The WWTP site is located on the south side of Harris County Flood Control Ditch M122-00-00 approximately 1 mile east of State Highway 249 in Harris county. The plant expansion is necessary due to an expected increase in flows due to increasing development in the service area.

The ultimate expansion of the wastewater treatment plant (WWTP) to 1.6 MGD will involve placing in service additional treatment capacity for aeration, digestion and clarification. The conceptual design for nuisance odor and noise, as outlined below, will be included as part of the WWTP expansion.

150' Buffer Zone

The proposed plant facilities for the 1.6 MGD phase extend the 150 foot buffer zone approximately 45 feet to the east beyond the Harris County Flood Control easement into property not owned by the District. The buffer zone to the north, south, and west fall within Harris County Flood Control easements or flood detention basins or District-owned property.

Existing Land Use

The land to the north of the WWTP site is a restricted easement for the Harris County Flood Control District with undeveloped land north of the easement. The land within the buffer zone to the west is plant property or stormwater detention. There are residences west of the buffer zone limit, with a band of trees between the nearest houses and plant property. The land to the south is stormwater detention.

The operation and careful management of solids using the existing digester facilities at the plant has historically minimized odors. The centrifugal blowers are housed in a building to lower noise levels.

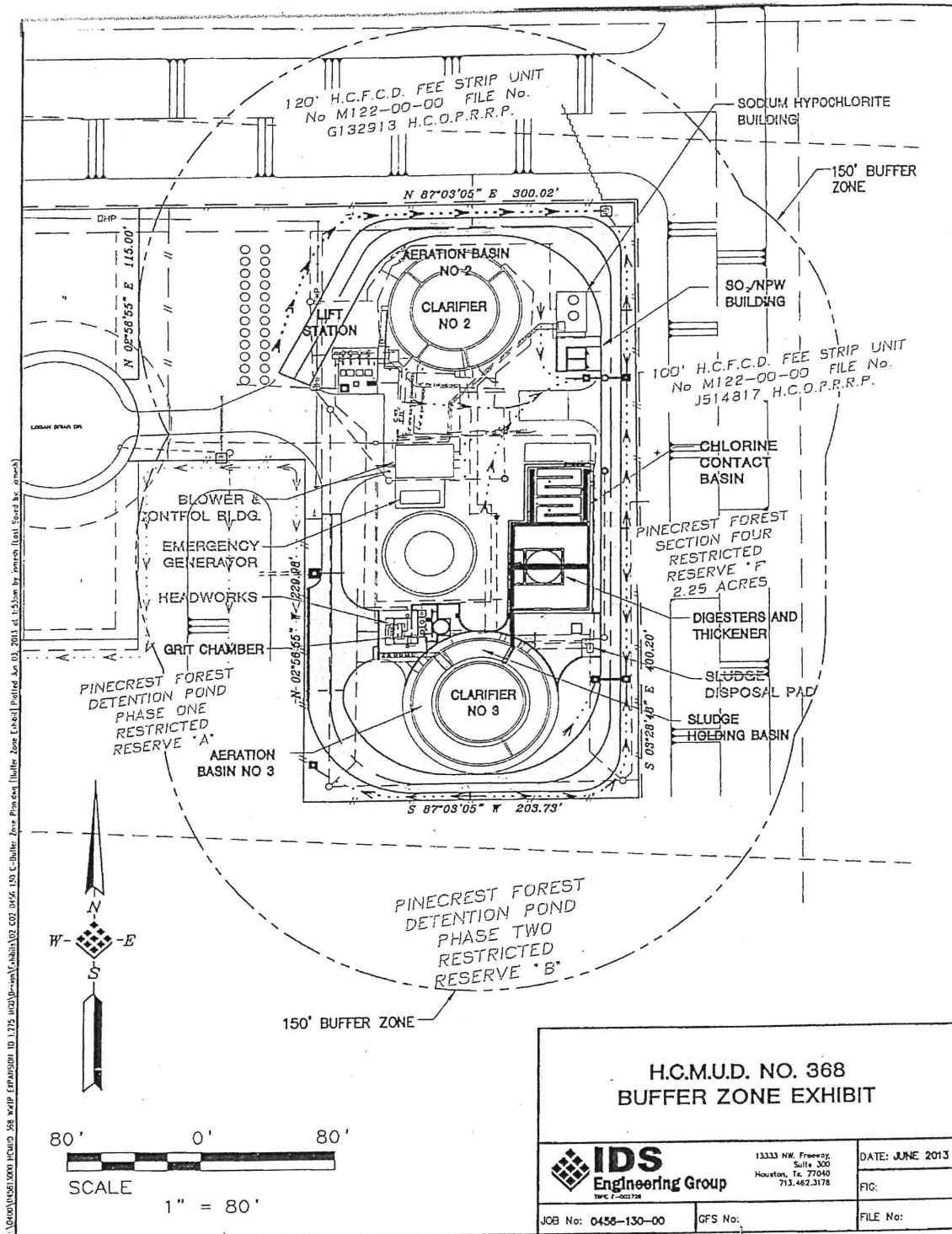
Odor Control Plan:

1. Continue thickening with the proposed digesters in batch supernatant and decanting cycles with six to eight hour off periods limiting anaerobic conditions.
2. Replace existing headworks with a new headworks including a rotary drum fine screen with a cover over the rotating drum to limit fugitive odors and a hydraulic screenings press to dewater screenings prior to deposition in a dumpster. Screenings discharged into the dumpster will be dosed with lime on a periodic basis to reduce odor.

Noise Control Plan:

1. Continue utilizing the existing centrifugal blowers in the blower/electrical building to serve the proposed facilities.
2. Install centrifugal blowers for future expansions. The proposed centrifugal blowers for the final phase will replace the existing blowers in the blower/electrical building. Acoustic silencers will be specified.

Attachment B
Buffer Zone Map
WQ0012044001 – Harris County Municipal Utility District No. 368



FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012044001, EPA I.D. No. TX0078433, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Applicant: Harris County Municipal Utility District No. 368
c/o Johnson Petrov LLP, 2929 Allen Parkway, Suite 3150
Houston, Texas 77019

Prepared By: Melinda Luxemburg, P.E.
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-4541

Date: June 9, 2023

Permit Action: Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

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

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal to authorize the discharge of treated domestic wastewater at daily average flow not to exceed 0.90 million gallons per day (MGD) in the Interim I phase, an annual average flow not to exceed 1.275 MGD in the Interim II phase, and an annual average flow not to exceed 1.60 MGD in the Final phase. The existing wastewater treatment facility serves the Harris County Municipal Utility District No. 368, which is predominately a single-family residential community.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 19744 1/2 Logan Briar Drive, in Harris County, Texas 77375.

Outfall Location:

Outfall Number	Latitude	Longitude
001	30.051274 N	95.596863 W

The treated effluent is discharged to Harris County Flood Control District (HCFCD) ditch

M122-00-00, thence to Willow Creek, thence to Spring Creek in Segment No. 1008 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for HCFCD ditch M122-00-00 and high aquatic life use for Willow Creek. The designated uses for Segment No. 1008 are primary contact recreation, public water supply, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Harris County MUD 368 Wastewater Treatment Plant (WWTP) is an activated sludge process plant that operates in the single stage nitrification mode. Treatment units in the Interim I phase include a lift station, manual bar screens, two aeration basins, two final clarifiers, two aerobic sludge digesters, and one chlorine contact chamber. Treatment units in the Interim II phase will include a lift station, a drum screen and grit separator, two aeration basins, two final clarifiers, two aerobic sludge digesters, one digester pre-mix basin, one sludge holding basin, and two chlorine contact chambers. Treatment units in the Final phase will include a lift station, a drum screen and grit separator, three aeration basins, three final clarifiers, two aerobic sludge digesters, one digester pre-mix basin, one sludge holding basin, and two chlorine contact chambers. The facility is operating in the Interim I phase.

Sludge generated from the treatment facility is hauled by a registered transporter (Trinity Wastewater Solutions, Transporter No. 24738) to Sprint Fort Bend County Landfill, Permit No. 1797, in Harris County and to New Earth Soils and Composting, Registration No. 42041, in Waller County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, or wastewater treatment facility.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The Harris County MUD 368 WWTP does not appear to receive significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period April 2021 through March 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 (CBOD₅), total suspended solids (TSS), ammonia-nitrogen (NH₃-N), total aluminum (TA), total zinc (TZ), and minimum dissolved oxygen (DO). The average of Daily Average value for *Escherichia coli* (*E. coli*) bacteria in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean. Mass-based limits are expressed as pounds per day (lbs/day). Concentration-based limits are expressed as milligrams per liter (mg/l).

<u>Parameter</u>	<u>Average of Daily Avg</u>
Flow, MGD	0.54
CBOD ₅ , mg/l	2.66
TSS, mg/l	4.39
NH ₃ -N, mg/l	0.74

<u>Parameter</u>	<u>Average of Daily Avg</u>
TA, mg/l	0.03
TZ, mg/l	0.06
DO (min), mg/l	7.46
<i>E. coli</i> , CFU or MPN per 100 ml	3

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 & MONITORING REQUIREMENTS

The daily average flow of effluent shall not exceed 0.9 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,500 gpm.

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day Average</u>	<u>Daily Maximum</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>mg/l</u>	<u>mg/l</u>
CBOD ₅	10	75	15	25
TSS	15	113	25	40
NH ₃ -N	3	22	6	10
TA	Report	Report	N/A	Report
TZ	Report	Report	N/A	Report
DO, min.	6.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN per 100 ml	63	N/A	N/A	200

The pH shall not be less than 6.0 standard units (SU) nor greater than 9.0 SU 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. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD ₅	One/week
TSS	One /week
NH ₃ -N	One /week
TA	One /week
TZ	One /week
DO	One/week
<i>E. coli</i> , CFU or MPN per 100 ml	Two/month

B. INTERIM II PHASE EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 1.275 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,542 gpm.

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day Average</u>	<u>Daily Maximum</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>mg/l</u>	<u>mg/l</u>
CBOD ₅	10	106	15	25
TSS	15	160	25	40
NH ₃ -N	2	21	5	10
TA	Report	Report	N/A	Report
TZ	Report	Report	N/A	Report
DO, min.	5.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN per 100 ml	63	N/A	N/A	200

The pH shall not be less than 6.0 SU nor greater than 9.0 SU 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.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD ₅	Two/week
TSS	Two/week
NH ₃ -N	Two/week
TA	One /week
TZ	One /week
DO	Two/week
<i>E. coli</i> , CFU or MPN per 100 ml	One/week

C. FINAL PHASE EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 1.6 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 4,444 gpm.

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day Average</u>	<u>Daily Maximum</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>mg/l</u>	<u>mg/l</u>
CBOD ₅	10	133	15	25
TSS	15	200	25	40
NH ₃ -N	2	27	5	10
TA	Report	Report	N/A	Report
TZ	Report	Report	N/A	Report
<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day Average</u>	<u>Daily Maximum</u>

	<u>mg/l</u>	<u>lbs/day</u>	<u>mg/l</u>	<u>mg/l</u>
DO, min.	6.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN per 100 ml	63	N/A	N/A	200

The pH shall not be less than 6.0 SU nor greater than 9.0 SU 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.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD ₅	Two/week
TSS	Two/week
NH ₃ -N	Two/week
TA	One /week
TZ	One /week
DO	Two/week
<i>E. coli</i> , CFU or MPN per 100 ml	One/week

D. 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 (Trinity Wastewater Solutions, Transporter No. 24738) to Sprint Fort Bend County Landfill, Permit No. 1797, in Harris County and to New Earth Soils and Composting, Registration No. 42041, in Waller County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, or wastewater treatment facility.

E. 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 (POTWs), or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

F. 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 29%, 38%, 51%, 68%, and 90%. The low-flow effluent concentration (critical dilution) is defined as 90% 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*).

G. SUMMARY OF CHANGES FROM APPLICATION

None.

H. SUMMARY OF CHANGES FROM EXISTING PERMIT

The facility mailing address and location description have been updated according to the information provided in the application.

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

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local

government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

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).

The existing permit includes pH limits of 6.0 – 9.0 SU at the outfall, which discharges into HCFCFCD ditch M122-00-00, thence to Willow Creek, both of which are unclassified water bodies. Consistent with the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 – 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* (TSWQS) pH criteria. These limits have been continued in the draft permit.

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to HCFCFCD ditch M122-00-00, thence to Willow Creek, thence to Spring Creek in Segment No. 1008 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for HCFCFCD ditch M122-00-00 and high aquatic life use for Willow Creek. The designated uses for Segment No. 1008 are primary contact recreation, public water supply, and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS'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. 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. 1008 is not currently listed on the State's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list).

One finalized Total Maximum Daily Load (TMDL) Project is available for this segment: *Fifteen Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston For Segment Numbers 1004E, 1008, 1008H, 1009, 1009C, 1009D, 1009E, 1010, and 1011* (Project No. 82). Addendums to the original Project No. 82 TMDL subsequently added additional assessment units (AUs) to the original TMDL project. On April 6, 2011, the TCEQ adopted Fifteen TMDLs for Indicator Bacteria in Watersheds Upstream of Lake Houston. The U.S. Environmental Protection Agency (EPA) on June 29, 2011. The TMDL addresses elevated levels of bacteria in nine classified and unclassified segments (Stewarts Creek - 1004E; Spring Creek - 1008; Willow Creek - 1008H; Cypress Creek - 1009; Faulkey Gully - 1009C; Spring Gully - 1009D; Little Cypress Creek - 1009E; Caney Creek - 1010; and Peach Creek - 1011) in this watershed. This project takes a watershed approach, so all AUs in the TMDL segments and in several additional unclassified segments (Mill Creek - 1008A; Upper Panther Branch - 1008B; Lower Panther Branch - 1008C; Metzler Creek - 1008D; Bear Branch - 1008E; Walnut Creek - 1008I; Brushy Creek - 1008J; Arnold Branch - 1008K; Mink Branch - 1008L; Sulphur Branch - 1008M; Dry Creek - 1009A; Dry Gully - 1009B; Mound Creek - 1009F; Dry Gully - 1009G; Dry Creek - 1010A; White Oak Creek - 1010B; and Spring Branch - 1010C) are also subject to this TMDL.

The waste load allocation (WLA) for wastewater treatment facilities was established as the permitted flow for each facility multiplied by one-half the geometric mean criterion for bacteria. Future growth from existing or new permitted sources is not limited by these TMDLs as long as the sources do not exceed the limits of one-half the bacteria geometric mean criterion for *E. coli*. To ensure that effluent limitations for this discharge are consistent with the WLAs provided in the TMDL, a concentration based effluent limitation for *E. coli* of 63 colony-forming units (CFU) or most probable number (MPN) has been continued in the draft permit.

A portion of the pollutant analysis of treated effluent provided by the permittee in Section 7., of the Domestic Wastewater Permit Application 1.0, indicates 376 mg/l total dissolved solids (TDS), 28 mg/l sulfate, and 81 mg/l chloride present in the effluent. The segment criteria for Segment No. 1008 are 450 mg/l for TDS, 50 mg/l for sulfate, and 100 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for TDS, chloride, or sulfate. See Attachment B of this Fact Sheet.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000. The effluent limitations and/or conditions in the draft permit comply with the requirements in 30 TAC Chapter 311: Watershed Protection, Subchapter D: Water Quality Management within

Lake Houston Watershed.

(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 proposed effluent limitations are contained in the approved WQMP.

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

(3) COASTAL MANAGEMENT PLAN

The 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, June 2010" is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Discharge is directly to HCFCF ditch M122-00-00, an intermittent stream, which is less than three miles to Willow Creek, a perennial freshwater ditch, stream, or river. 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. Chronic freshwater criteria are applied in the perennial freshwater stream.

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 cubic feet per second (cfs). This effluent percentage also provides acute protection of aquatic life in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during critical conditions. The estimated dilution for chronic protection of aquatic life is calculated using the permitted flow of 1.6 MGD and the 7-day, 2-year (7Q2) flow of 0.26 cfs for Willow Creek, the perennial stream.

The following critical effluent percentages are being used:

Acute Effluent %:	100%	Chronic Effluent %:	90.50%
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Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12).

Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and 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, June 2010." The segment values are 48 mg/l for hardness (as calcium carbonate), 47 mg/l chlorides, 6.8 standard units for pH, and 10 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70% of the calculated daily average water

quality-based effluent limitation. See Attachment A of this Fact Sheet for the calculated water quality-based effluent limitations for aquatic life protection.

(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

Discharge is directly to HCFCF ditch M122-00-00, an intermittent stream, which is less than three miles to Willow Creek, a perennial freshwater ditch, stream, or river.

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 TSWQS (30 TAC Chapter 307).

Freshwater fish tissue bioaccumulation criteria are applied for human health protection in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during average flow conditions. The estimated dilution for human health protection is calculated using the permitted flow of 1.6 MGD and the harmonic mean flow of 2.51 cfs for Willow Creek. The following critical effluent percentage is being used:

Human Health Effluent %:	49.655%
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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 for the calculated water quality-based effluent limitations for protection of human health.

(b) PERMIT ACTION

Reported analytical data for Mercury (0.092 µg/l) exceeds 85% of the calculated daily average water quality-based effluent limitation for human health protection 0.029 µg/l, using consumption of fish tissue

criteria.

Harris County Municipal Utility District No. 368 was asked to retest for Mercury once per week for four weeks or twice per week for two weeks on different days.

Harris County Municipal Utility District No. 368 submitted a total of four tests for Mercury on April 11, 2025 with the following results:

Sample Date	Mercury (µg/l)
3/17/2025	0.01692
3/19/2025	0.01011
3/25/2025	0.00996
3/27/2025	0.01059

The four retests showed an average mercury concentration of 0.01189 µg/l. Therefore, a mercury effluent reporting requirement or limit was not included in the draft permit.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1008, which receives the discharge from this facility, is designated as a public water supply. The discharge point is located at a distance greater than three miles from the classified segment. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable due to the distance between the discharge point and the classified segment.

(b) PERMIT ACTION

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. This facility is operating at a phase with a design flow of less than 1.0 MGD. Therefore, there is no whole effluent toxicity (WET) testing history to review. WET testing will commence within

90 days of initial discharge from the 1.275 MGD phase facility.

A reasonable potential (RP) determination was performed in accordance with 40 CFR § 122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With no WET testing history, and therefore zero failures, a determination 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.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

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

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. This facility is operating at a phase with a design flow of less than 1.0 MGD. Therefore, there is no whole effluent toxicity (WET) testing history to review. WET testing will commence within 90 days of initial discharge from the 1.275 MGD phase facility.

(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 Melinda Luxemburg, P.E. at (512) 239-4541.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT

TPDES Permit No. WQ0012044001 issued on July 16, 2018.

B. APPLICATION

Application received on February 6, 2023, and additional information received on February 15, 2023 and April 11, 2025.

C. MEMORANDA

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

D. MISCELLANEOUS

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

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective March 1, 2018, as approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not yet approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not yet approved by EPA Region 6.

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.

Fifteen Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston Segments: 1004E, 1008, 1008H, 1009, 1009C, 1009D, 1009E, 1010, and 1011 (TMDL project No. 82).

Harris County Municipal Utility District No. 368 TPDES Permit No. WQ0012044001
Fact Sheet and Executive Director's Preliminary Decision

Attachment A: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #2 – INTERMITTENT STREAM WITHIN 3 MILES OF A 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 (Incidental Fish Only)

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	Harris County Municipal Utility District No. 368
TPDES Permit No.:	WQ0012044001
Outfall No.:	001
Prepared by:	Melinda Luxemburg, P.E.
Date:	June 9, 2023

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	HCFCF ditch M122-00-00
Perennial Stream/River within 3 miles	Willow Creek
Segment No.:	1008
TSS (mg/L):	10
pH (Standard Units):	6.8
Hardness (mg/L as CaCO ₃):	48
Chloride (mg/L):	47
Effluent Flow for Aquatic Life (MGD):	1.6
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	0.26
% Effluent for Chronic Aquatic Life:	90.50
% Effluent for Acute Aquatic Life:	100
Effluent Flow for Human Health (MGD):	1.6
Harmonic Mean Flow (cfs):	2.51
% Effluent for Human Health:	49.655
Human Health Criterion (select: PWS, FISH, or INC)	FISH

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

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	89125.09	0.529		1.00	Assumed
Cadmium	6.60	-1.13	295120.92	0.253		1.00	Assumed
Chromium (total)	6.52	-0.93	389045.14	0.204		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	389045.14	0.204		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	190546.07	0.344		1.00	Assumed
Lead	6.45	-0.80	446683.59	0.183		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	131825.67	0.431		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	223872.11	0.309		1.00	Assumed
Zinc	6.10	-0.70	251188.64	0.285		1.00	Assumed

Attachment A: Calculated Water Quality Based Effluent Limitations

AQUATIC LIFE -

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	N/A	3.0	N/A	1.72	N/A	2.53	5.35
Aluminum	991	N/A	991	N/A	568	N/A	835	1766
Arsenic	340	150	643	313	368	241	355	751
Cadmium	4.2	0.148	16.6	0.64	9.5	0.50	0.73	1.54
Carbaryl	2.0	N/A	2.0	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.4	0.0044	1.38	0.0034	0.0050	0.0106
Chlorpyrifos	0.083	0.041	0.083	0.045	0.048	0.035	0.051	0.108
Chromium (trivalent)	312	41	1527	220	875	169	249	526
Chromium (hexavalent)	15.7	10.6	15.7	11.7	9.00	9.0	13.2	28.0
Copper	7.1	5.1	20.7	16.2	11.8	12.5	17.4	37
Cyanide (free)	45.8	10.7	45.8	11.8	26.2	9.1	13.4	28.3
4,4'-DDT	1.1	0.001	1.1	0.0011	0.630	0.0009	0.0013	0.0026
Demeton	N/A	0.1	N/A	0.111	N/A	0.085	0.125	0.265
Diazinon	0.17	0.17	0.17	0.188	0.097	0.145	0.143	0.303
Dicofol (Kelthane)	59.3	19.8	59.3	21.9	34.0	16.8	24.8	52.4
Dieldrin	0.24	0.002	0.24	0.0022	0.138	0.0017	0.0025	0.0053
Diuron	210	70	210	77	120	60	88	185
Endosulfan I (<i>alpha</i>)	0.22	0.056	0.22	0.062	0.126	0.048	0.070	0.148
Endosulfan II (<i>beta</i>)	0.22	0.056	0.22	0.062	0.126	0.048	0.070	0.148
Endosulfan sulfate	0.22	0.056	0.22	0.062	0.126	0.048	0.070	0.148
Endrin	0.086	0.002	0.086	0.0022	0.049	0.0017	0.0025	0.0053
Guthion (Azinphos Methyl)	N/A	0.01	N/A	0.011	N/A	0.009	0.013	0.026
Heptachlor	0.52	0.004	0.52	0.0044	0.298	0.0034	0.0050	0.0106
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	1.126	0.08	1.126	0.088	0.645	0.068	0.100	0.212
Lead	29	1.12	157	6.8	90	5.2	7.7	16
Malathion	N/A	0.01	N/A	0.011	N/A	0.009	0.013	0.026
Mercury	2.4	1.3	2.4	1.44	1.38	1.11	1.63	3.44
Methoxychlor	N/A	0.03	N/A	0.033	N/A	0.026	0.038	0.079
Mirex	N/A	0.001	N/A	0.0011	N/A	0.0009	0.0013	0.0026
Nickel	252	28.0	583	72	334	55	81	171
Nonylphenol	28	6.6	28	7.3	16.0	5.62	8.3	17.5
Parathion (ethyl)	0.065	0.013	0.065	0.014	0.037	0.011	0.016	0.034
Pentachlorophenol	7.1	5.5	7.1	6.0	4.1	4.7	6.0	12.7
Phenanthrene	30	30	30	33.2	17.2	25.5	25.3	53.5
Polychlorinated Biphenyls (PCBs)	2.0	0.014	2.0	0.015	1.15	0.012	0.018	0.037
Selenium	20	5	20	5.53	11.5	4.25	6.3	13.2
Silver	0.8	N/A	10.70	N/A	6.13	N/A	9.01	19.1
Toxaphene	0.78	0.0002	0.78	0.00022	0.447	0.00017	0.00025	0.00053
Tributyltin (TBT)	0.13	0.024	0.13	0.027	0.074	0.020	0.030	0.064
2,4,5 Trichlorophenol	136	64	136	71	77.9	54.5	80	169
Zinc	63	63	221	246	127	190	186	394

Harris County Municipal Utility District No. 368 TPDES Permit No. WQ0012044001
Fact Sheet and Executive Director's Preliminary Decision

Attachment A: Calculated Water Quality Based Effluent Limitations

HUMAN HEALTH (APPLIES FOR FRESHWATER FISH TISSUE) CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	231.60	215.39	316.62	669.86
Aldrin	1.146E-05	1.147E-05	1.147E-04	2.31E-05	2.15E-05	3.16E-05	6.68E-05
Anthracene	1109	1317	13170	2652	2467	3626	7671
Antimony	6	1071	10710	2156.9	2005.9	2948.7	6238.4
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	1170.1	1088.2	1599.6	3384.2
Benzidine	0.0015	0.107	1.07	0.2155	0.2004	0.2946	0.6233
Benzo(a)anthracene	0.024	0.025	0.25	0.050	0.047	0.069	0.146
Benzo(a)pyrene	0.0025	0.0025	0.025	0.0050	0.0047	0.007	0.015
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.5528	0.5141	0.756	1.599
Bis(2-chloroethyl)ether	0.60	42.83	428.3	86.26	80.22	117.92	249.48
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	15.2	14.1	20.8	44.0
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	553.8	515.1	757.1	1602
Bromoform [Tribromomethane]	66.9	1060	10600	2135	1985	2918	6174
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	92.6	86.2	126.6	267.9
Chlordane	0.0025	0.0025	0.025	0.0050	0.0047	0.007	0.015
Chlorobenzene	100	2737	27370	5512	5126	7536	15943
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	368.5	342.7	503.8	1065.9
Chloroform [Trichloromethane]	70	7697	76970	15501	14416	21192	44834
Chromium (hexavalent)	62	502	5020	1011	940	1382	2924
Chrysene	2.45	2.52	25.2	5.08	4.72	6.9	14.7
Cresols [Methylphenols]	1041	9301	93010	18731	17420	25608	54177
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.0040	0.0037	0.0055	0.0116
4,4'-DDE	0.00013	0.00013	0.0013	0.00026	0.00024	0.00036	0.00076
4,4'-DDT	0.0004	0.0004	0.004	0.0008	0.0007	0.0011	0.0023
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenprothrin]	262	473	4730	953	886	1302	2755
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	8.539	7.941	11.674	24.70
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	1198	1114	1638	3466
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	6644	6179	9083	19216
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	4.51	4.20	6.17	13.05
1,2-Dichloroethane	5	364	3640	733.1	681.8	1002.2	2120.2
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	110994.9	103225.2	151741.1	321030.5
Dichloromethane [Methylene Chloride]	5	13333	133330	26851.5	24971.9	36708.7	77662.7
1,2-Dichloropropane	5	259	2590	521.6	485.1	713.1	1508.6
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	239.66	222.88	327.6	693.2
Dicofol [Kelthane]	0.30	0.30	3	0.60	0.562	0.83	1.75
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.000040	0.000037	0.000055	0.000116
2,4-Dimethylphenol	444	8436	84360	16989	15800	23226	49138
Di-n-Butyl Phthalate	88.9	92.4	924	186	173	254	538
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.61E-07	1.49E-07	2.19E-07	4.64E-07

Harris County Municipal Utility District No. 368 TPDES Permit No. WQ0012044001
Fact Sheet and Executive Director's Preliminary Decision

Attachment A: Calculated Water Quality Based Effluent Limitations

HUMAN HEALTH (APPLIES FOR FRESHWATER FISH TISSUE) CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Endrin	0.02	0.02	0.2	0.040	0.037	0.055	0.116
Epichlorohydrin	53.5	2013	20130	4054	3770	5542	11725
Ethylbenzene	700	1867	18670	3760	3497	5140	10875
Ethylene Glycol	46744	1.68E+07	1.68E+08	33833764	31465400	46254138	97857394
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.00020	0.00019	0.00028	0.00058
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0006	0.0005	0.0008	0.0017
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0014	0.0013	0.0019	0.0040
Hexachlorobutadiene	0.21	0.22	2.2	0.443	0.412	0.606	1.281
Hexachlorocyclohexane (<i>alpha</i>)	0.0078	0.0084	0.084	0.017	0.016	0.023	0.049
Hexachlorocyclohexane (<i>beta</i>)	0.15	0.26	2.6	0.524	0.487	0.716	1.51
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.2	0.341	3.41	0.687	0.639	0.939	1.99
Hexachlorocyclopentadiene	10.7	11.6	116	23.4	21.7	31.9	68
Hexachloroethane	1.84	2.33	23.3	4.69	4.36	6.42	13.6
Hexachlorophene	2.05	2.90	29	5.84	5.43	7.98	16.9
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	32186	29933	44002	93093
Lead	1.15	3.83	38.3	42.2	39.2	57.6	122.0
Mercury	0.0122	0.0122	0.122	0.025	0.023	0.034	0.071
Methoxychlor	2.92	3.0	30	6.0	5.62	8.3	17.5
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1997803	1857957	2731197	5778246
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	21109.9	19632.2	28859.3	61056
Nickel	332	1140	11400	5322	4950	7276	15394
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	3772	3508	5157	10910
N-Nitrosodiethylamine	0.0037	2.1	21	4.229	3.933	5.782	12.232
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	8.458	7.866	11.564	24.46
Pentachlorobenzene	0.348	0.355	3.55	0.71	0.66	0.98	2.07
Pentachlorophenol	0.22	0.29	2.9	0.584	0.543	0.80	1.69
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0013	0.0012	0.0018	0.0037
Pyridine	23	947	9470	1907.2	1773.7	2607	5516
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	0.483	0.450	0.66	1.40
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	53.07	49.35	72.55	153.5
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	563.9	524.4	770.9	1631.0
Thallium	0.12	0.23	2.3	0.463	0.431	0.633	1.34
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.022	0.021	0.030	0.064
2,4,5-TP [Silvex]	50	369	3690	743	691	1016	2149
1,1,1-Trichloroethane	200	784354	7843540	1579622	1469048	2159501	4568740
1,1,2-Trichloroethane	5	166	1660	334.3	310.9	457.0	966.9
Trichloroethylene [Trichloroethene]	5	71.9	719	144.8	134.7	198.0	418.8
2,4,5-Trichlorophenol	1039	1867	18670	3760	3497	5140	10875
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	33.230	30.904	45.43	96.11

Attachment A: Calculated Water Quality Based Effluent Limitations

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

Aquatic Life	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Aldrin	1.77	2.15
Aluminum	584	710
Arsenic	248	302
Cadmium	0.51	0.62
Carbaryl	1.18	1.43
Chlordane	0.0035	0.0043
Chlorpyrifos	0.036	0.044
Chromium (+3)	174	211
Chromium (+6)	9.26	11.2
Copper	12.2	14.8
Cyanide (free)	9.4	11.4
4,4'-DDT	0.0009	0.0011
Demeton	0.088	0.106
Diazinon	0.100	0.122
Dicofol	17.3	21.1
Dieldrin	0.0018	0.0021
Diuron	61	74
Endosulfan (alpha)	0.049	0.060
Endosulfan (beta)	0.049	0.060
Endosulfan sulfate	0.049	0.060
Endrin	0.0018	0.0021
Guthion	0.009	0.011
Heptachlor	0.0035	0.0043
Hexachlorocyclohexane (Lindane)	0.070	0.085
Lead	5.4	6.5
Malathion	0.009	0.011
Mercury	1.14	1.38
Methoxychlor	0.026	0.032
Mirex	0.0009	0.0011
Nickel	57	69
Nonylphenol	5.78	7.0
Parathion (ethyl)	0.011	0.014
Pentachlorophenol	4.2	5.1
Phenanthrene	17.7	21.5
Polychlorinated Biphenyls (PCBs)	0.012	0.015
Selenium	4.38	5.32
Silver	6.31	7.66
Toxaphene	0.00018	0.00021
Tributyltin (TBT)	0.021	0.026
2,4,5 Trichlorophenol	56.0	68.0
Zinc	130	158

Attachment A: Calculated Water Quality Based Effluent Limitations

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Acrylonitrile	221.63	269.13
Aldrin	0.000022	0.000027
Anthracene	2538	3082
Antimony	2064.1	2506.4
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	1119.7	1359.7
Benzidine	0.2062	0.2504
Benzo(a)anthracene	0.048	0.059
Benzo(a)pyrene	0.0048	0.0059
Bis(chloromethyl)ether	0.5290	0.6424
Bis(2-chloroethyl)ether	82.54	100.23
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	14.6	17.7
Bromodichloromethane [Dichlorobromomethane]	530.0	643.6
Bromoform [Tribromomethane]	2043	2481
Cadmium	N/A	N/A
Carbon Tetrachloride	88.7	107.7
Chlordane	0.0048	0.0059
Chlorobenzene	5275	6405
Chlorodibromomethane [Dibromochloromethane]	352.7	428.3
Chloroform [Trichloromethane]	14834	18013
Chromium (hexavalent)	967	1175
Chrysene	4.86	5.90
Cresols [Methylphenols]	17925	21767
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0039	0.0047
4,4'-DDE	0.00025	0.00030
4,4'-DDT	0.0008	0.0009
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	912	1107
1,2-Dibromoethane [Ethylene Dibromide]	8.172	9.923
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	1147	1392
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	6358	7720
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	4.32	5.24
1,2-Dichloroethane	701.5	851.8
1,1-Dichloroethylene [1,1-Dichloroethene]	106218.8	128979.9
Dichloromethane [Methylene Chloride]	25696.1	31202.4
1,2-Dichloropropane	499.2	606.1
1,3-Dichloropropene [1,3-Dichloropropylene]	229.34	278.5
Dicofol [Kelthane]	0.578	0.70
Dieldrin	0.000039	0.000047
2,4-Dimethylphenol	16258	19742
Di- <i>n</i> -Butyl Phthalate	178	216
Dioxins/Furans [TCDD Equivalents]	1.54E-07	1.87E-07

Attachment A: Calculated Water Quality Based Effluent Limitations

Human Health <i>Parameter</i>	70% of Daily Avg. (µg/L)	85% of Daily Avg. (µg/L)
Endrin	0.039	0.047
Epichlorohydrin	3880	4711
Ethylbenzene	3598	4369
Ethylene Glycol	32377897	39316017
Fluoride	N/A	N/A
Heptachlor	0.00019	0.00023
Heptachlor Epoxide	0.0006	0.0007
Hexachlorobenzene	0.0013	0.0016
Hexachlorobutadiene	0.424	0.515
Hexachlorocyclohexane (<i>alpha</i>)	0.016	0.020
Hexachlorocyclohexane (<i>beta</i>)	0.501	0.608
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.657	0.798
Hexachlorocyclopentadiene	22.4	27.1
Hexachloroethane	4.49	5.45
Hexachlorophene	5.59	6.79
4,4'-Isopropylidenediphenol [Bisphenol A]	30801	37402
Lead	40.4	49.0
Mercury	0.024	0.029
Methoxychlor	5.78	7.0
Methyl Ethyl Ketone	1911838	2321517
Methyl <i>tert</i> -butyl ether [MTBE]	20201.5	24530.4
Nickel	5093	6185
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	3610	4383
N-Nitrosodiethylamine	4.047	4.915
N-Nitroso-di- <i>n</i> -Butylamine	8.094	9.829
Pentachlorobenzene	0.68	0.83
Pentachlorophenol	0.559	0.679
Polychlorinated Biphenyls [PCBs]	0.0012	0.0015
Pyridine	1825.1	2216.2
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.463	0.562
1,1,2,2-Tetrachloroethane	50.78	61.67
Tetrachloroethylene [Tetrachloroethylene]	539.6	655.3
Thallium	0.443	0.538
Toluene	N/A	N/A
Toxaphene	0.021	0.026
2,4,5-TP [Silvex]	711	864
1,1,1-Trichloroethane	1511651	1835576
1,1,2-Trichloroethane	319.9	388.5
Trichloroethylene [Trichloroethene]	138.6	168.3
2,4,5-Trichlorophenol	3598	4369
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	31.800	38.614

Attachment B

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Intermittent Characteristics of the Unnamed Tributary

Applicant Name:	Harris County MUD 368
Permit Number, Outfall:	WQ0012044001, Outfall 001
Segment Number:	1008

Enter values needed for screening:		Data Source (edit if different)
TDS CC - segment criterion - TDS	450	mg/L 2018 TSWQS, Appendix A
Cl CC - segment criterion - chloride	100	mg/L 2018 TSWQS, Appendix A
SO4 CC - segment criterion - sulfate	50	mg/L 2018 TSWQS, Appendix A
TDS CE - average effluent concentration - TDS	376	mg/L Permit application
Cl CE - average effluent concentration - chloride	81	mg/L Permit application
SO4 CE - average effluent concentration - sulfate	28	mg/L Permit application

TDS Screening

The TDS screening value is determined by calculating an initial TDS concentration, C_{TDS} , as follows:

$$C_{TDS} = (TDS\ CC / 500\ mg/L) * 2,500\ mg/L$$

Where:	C_{TDS} = TDS concentration used to determine C_{sv} screening value TDS CC = TDS criterion at the first downstream segment 500 mg/L = the median TDS concentration in Texas streams 2,500 mg/L = the minimum TDS screening value
--------	--

$$C_{TDS} = 2250\ mg/L$$

The next step is to use the initial C_{TDS} to set the actual TDS screening value, $TDS\ C_{sv}$, using the following table:

If C_{TDS}	Then $TDS\ C_{sv}$
$\leq 2,500\ mg/L$	= 2,500 mg/L
$> 2,500\ mg/L$	= C_{TDS}
$> 6,000\ mg/L$	= 6,000 mg/L

Attachment B

Some specific types of intermittent streams have alternative screening values (Csv):

Specific Type of Intermittent Stream	If CTDS is	Default Csv =
Dry except for short-term flow in immediate response to rainfall.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	CTDS
Constructed ditch conveying stormwater and wastewater, considered water in the state.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	CTDS
Within 3 miles of tidal waters.	—	6,000 mg/L

Once TDS Csv is established, the next step is to compare the effluent TDS concentration, TDS CE, to the screening value. Control measures, which may include effluent limitations, are considered for TDS if the effluent TDS is greater than the screening value.

Values needed for Screening	Data Source
TDS CE - average effluent TDS concentration	376 mg/L Permit application
TDS Csv - TDS screening value	2,500 mg/L Determined above

No control measures needed if:	376	≤	2500
Consider control measures if:	376	>	2500

No control measures needed for TDS

Chloride Screening

If TDS limits are necessary or there are concerns about chloride, additional screening can be performed for chloride. First calculate the screening value for chloride, Cl Csv, as follows:

$$Cl\ Csv = (TDS\ Csv / TDS\ CC) * Cl\ CC$$

Where:

- Cl Csv = chloride screening value
- TDS Csv = TDS screening value
- TDS CC = TDS criterion at the first downstream segment
- Cl CC - chloride criterion at the first downstream segment

$$Cl\ Csv = 555.6\ mg/L$$

Once the Cl Csv is established, the next step is to compare the effluent chloride concentration, Cl CE, to the screening value. Control measures, which may include effluent limitations, are considered for chloride if the effluent chloride is greater than the screening value.

Attachment B

Values needed for Screening			Data Source
Cl CE - average effluent chloride concentration	81	mg/L	Permit application
Cl Csv - chloride screening value	555.6	mg/L	Determined above

No control measures needed if:	81	≤	555.6
Consider control measures if:	81	>	555.6

No control measures needed for chloride

Sulfate Screening

If TDS limits are necessary or there are concerns about sulfate, additional screening can be performed for sulfate. First calculate the screening value for sulfate, SO₄ Csv, as follows:

$$\text{SO}_4 \text{ Csv} = (\text{TDS Csv} / \text{TDS CC}) * \text{SO}_4 \text{ CC}$$

Where:	SO ₄ Csv = sulfate screening value
	TDS Csv = TDS screening value
	TDS CC = TDS criterion at the first downstream segment
	SO ₄ CC - sulfate criterion at the first downstream segment

$$\text{SO}_4 \text{ Csv} = 277.8 \text{ mg/L}$$

Once the SO₄ Csv is established, the next step is to compare the effluent sulfate concentration, SO₄ CE, to the screening value. Control measures, which may include effluent limitations, are considered for sulfate if the effluent sulfate is greater than the screening value.

Values needed for Screening			Data Source
SO ₄ CE - average effluent sulfate concentration	28	mg/L	Permit application
SO ₄ Csv - sulfate screening value	277.8	mg/L	Determined above

No control measures needed if:	28	≤	277.8
Consider control measures if:	28	>	277.8

No control measures needed for sulfate

Attachment B

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Perennial Stream

Applicant Name:	Harris County MUD 368
Permit Number, Outfall:	WQ0012044001, Outfall 001
Segment Number:	1008

Enter values needed for screening:		Data Source (edit if different)	
QE - Average effluent flow	1.6	MGD	
QS - Perennial stream harmonic mean flow	1.18	cfs	10/19/12 Critical conditions memo
QE - Average effluent flow	2.4756	cfs	Calculated
CA - TDS - ambient segment concentration	241	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	47	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	10	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	450	mg/L	2018 TSWQS, App A
CC - chloride - segment criterion	100	mg/L	2018 TSWQS, App A
CC - sulfate - segment criterion	50	mg/L	2018 TSWQS, App A
CE - TDS - average effluent concentration	164	mg/L	Permit application
CE - chloride - average effluent concentration	32.8	mg/L	Permit application
CE - sulfate - average effluent concentration	11.9	mg/L	Permit application

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)]/[QE + QS]$$

Preliminary Calculations	Load in River	Effluent Load	New Concentration	% Change in Ambient	% Change in Assim. Capacity
Parameter	QSCA	QECE	Equation 2		
TDS	284.38	405.9932	188.86	-21.6	-24.9
Chloride	55.46	81.19863	37.38	-20.5	-18.1
Sulfate	11.8	29.45926	11.29	12.9	3.2

Attachment B

No further screening for TDS needed if:	164	≤	52597
No further screening for chloride needed if:	32.8	≤	119.87
No further screening for sulfate needed if:	11.9	≤	66.09

The conclusion based on screening is:

No permit limitations needed for TDS

No permit limitations needed for chloride

No permit limitations needed for sulfate



ORIGINAL

December 19, 2022

Executive Director
Applications Review and Processing Team (MC-148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78735

Reference: Harris County Municipal Utility District No. 368
Domestic Wastewater Permit Renewal Application
IDS Project No. 0456-134-03

Dear Sir or Madam:

Transmitted herewith please find one (1) original and three (3) copies of the Domestic Wastewater Permit Renewal Application submitted on behalf of Harris County Municipal Utility District No. 368.

One (1) check for the application fee in the amount of \$2,015.00 has been sent to the Texas Commission on Environmental Quality Financial Administration Division (MC – 214). A copy of the check has been included in the attached package.

Sincerely,


Audrey Anderson
Design Engineer

Enclosures



X:\0400\045600100 HCMUD 368 GEN CON\WASTEWATER\TPDES PERMIT 2022\TPDES PERMIT RENEWAL COVER LETTER.DOCX

RECEIVED
FEB 06 2023
WATER QUALITY DIVISION
TCEQ

TCEQ DOMESTIC WASTEWATER PERMIT APPLICATION

Harris County Municipal Utility District No. 368
Permit No. WQ0012044-001

IDS Project No. 0456-134-03

December 2022





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: Harris County Municipal Utility District No. 368

PERMIT NUMBER: WQ0012044001

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

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



For TCEQ Use Only

Segment Number 1008 County Harris
 Expiration Date 2/4/2023 Region 12
 Permit Number WQ0012044001



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

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

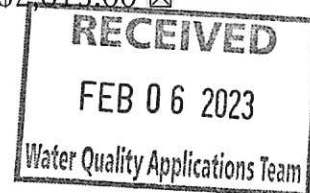
Mailed Check/Money Order Number: 218289

Check/Money Order Amount: \$2015.00

Name Printed on Check: Texas Commission on Environmental Quality

EPAY Voucher Number:

Copy of Payment Voucher enclosed? Yes ☐



Section 2. Type of Application (Instructions Page 29)

- | | |
|---|---|
| <input type="checkbox"/> New TPDES | <input type="checkbox"/> New TLAP |
| <input type="checkbox"/> Major Amendment <u>with</u> Renewal | <input type="checkbox"/> Minor Amendment <u>with</u> Renewal |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal |
| <input checked="" type="checkbox"/> Renewal without changes | <input type="checkbox"/> Minor Modification of permit |

For amendments or modifications, describe the proposed changes:

For existing permits:

Permit Number: WQ0012044001

EPA I.D. (TPDES only): TX0078433

Expiration Date: July 16, 2023

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?

Harris County Municipal Utility District No. 368

(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: 600737621

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: Roy P. Lackey

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

Title: Board 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: N/A

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

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

First and Last Name: N/A

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

Title: N/A

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

C. Core Data Form

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

Attachment: No 1

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): Mr.

First and Last Name: Kameron Pugh

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

Title: District Engineer

Organization Name: IDS Engineering Group

Mailing Address: 13430 Northwest Freeway, Suite 700

City, State, Zip Code: Houston, TX 77040

Phone No.: (832)590-7187 Ext.: Fax No.:

E-mail Address: KPugh@idseg.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact



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

First and Last Name: Andrew Johnson

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

Title: Attorney

Organization Name: Johnson Petrov LLP

Mailing Address: 2929 Allen Parkway, Suite 3150

City, State, Zip Code: Houston, TX 77019-7100

Phone No.: (713)489-8977 Ext.: Fax No.:

E-mail Address: ajohnson@johnsonpetrov.com

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: Kameron Pugh

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

Title: District Engineer

Organization Name: IDS Engineering Group

Mailing Address: 13430 Northwest Freeway, Suite 700

City, State, Zip Code: Houston, TX 77040

Phone No.: (832)590-7187 Ext.:

Fax No.:

E-mail Address: KPugh@idseg.com



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

First and Last Name: Andrew Johnson

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

Title: Attorney

Organization Name: Johnson Petrov LLP

Mailing Address: 2929 Allen Parkway, Suite 3150

City, State, Zip Code: Houston, TX 77019-7100

Phone No.: (713)489-8977 Ext.:

Fax No.:

E-mail Address: ajohnson@johnsonpetrov.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): Mr.

First and Last Name: Mike Plunkett

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

Title: Operator

Organization Name: Eagle Water Management

Mailing Address: 5118 Spring Cypress Road

City, State, Zip Code: Spring, TX 77379

Phone No.: (281)374-8989 Ext.:

Fax No.:

E-mail Address: mplunkett@eaglewatermanagement.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): Mrs.

First and Last Name: Kaye Townley-Trenary

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

Title: District Bookkeeper

Organization Name: Municipal Accounts and Consulting

Mailing Address: 611 Longmire Road, Suite 1

City, State, Zip Code: Conroe, TX 77304

Phone No.: (936)647-4068 Ext.: [REDACTED] Fax No.: (936)756-1844

E-mail Address: ktownley@municipalaccounts.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): Mrs.

First and Last Name: Vonda Riley

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

Title: Project Administrator

Organization Name: IDS Engineering Group

Mailing Address: 13430 Northwest Freeway, Suite 700

City, State, Zip Code: Houston, TX 77040

Phone No.: (832)590-7109 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: VRiley@idseg.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): Mr.

First and Last Name: Kameron Pugh

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

Title: District Engineer

Organization Name: IDS Engineering Group

Phone No.: (832)590-7187 Ext.: [REDACTED]

E-mail: KPugh@idseg.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: Texas Commission on Environmental Quality

Location within the building: [REDACTED]

Physical Address of Building: 5425 Polk Street, Suite H

City: Houston

County: Harris

Contact Name: [REDACTED]

Phone No.: (713)767-3500 Ext.: [REDACTED]



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: N/A

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. RN102080553

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):

Harris County Municipal Utility District No. 368 Wastewater Treatment Facility

- C. Owner of treatment facility: Harris County Municipal Utility District No. 368

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

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

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

First and Last Name: Harris County Municipal Utility District No. 368

Mailing Address: 2929 Allen Parkway, Suite 3150

City, State, Zip Code: Houston, TX 77019-7100

Phone No.: (713)489-8977

E-mail Address: ajohnson@johnsonpetrov.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: N/A

- E. Owner of effluent disposal site:

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A



Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

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

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A



Section 10. TPDES Discharge Information (Instructions Page 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:

City nearest the outfall(s): Tomball

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

Outfall Latitude: 30.051259°

Longitude: -95.597101°

- 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: [REDACTED]

- 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

- B. City nearest the disposal site: [REDACTED]

- C. County in which the disposal site is located: [REDACTED]

- D. Disposal Site Latitude: [REDACTED] Longitude: [REDACTED]

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

[REDACTED]

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

[REDACTED]

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.

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:



D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number:

Amount past due:

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:



Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WQ0012044001

Applicant: Harris County Municipal Utility District No. 368

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): Roy P. Lackey

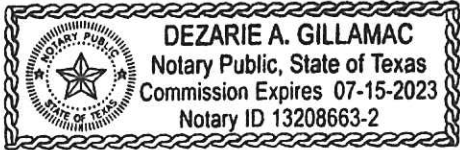
Signatory title: Board President

Signature:  Date: 1/6/23
(Use blue ink)

Subscribed and Sworn to before me by the said Roy Lackey
on this 6th day of January, 2023.
My commission expires on the 7th day of January, 2023.


Notary Public

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

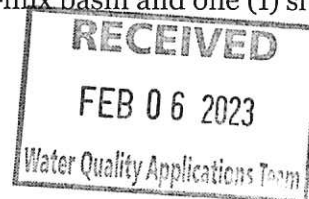
DOMESTIC WASTEWATER

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.

Harris County Municipal Utility District No. 368 (CN600737621) operates Harris County Municipal Utility District No. 368 Wastewater Treatment Facility, RN102090553, a single stage nitrification activated sludge processing plant. The facility is located 19744 1/2 Logan Briar Dr., in Tomball, Harris County, Texas 77375.

This Permit is for a renewal to discharge 1,275,000 gallons per day of treated wastewater.

Discharges from the facility are expected to contain pollutants such as carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Domestic wastewater is treated by a single nitrification activated sludge process. Wastewater pumped from the lift station will enter into the headworks consisting of a drum screen and a grit separator. From the headworks, the wastewater will flow through two (2) aeration basins, two (2) 52-foot diameter clarifiers, and two (2) chlorine contact basins. Clarified effluent will flow from the plant to the outfall via a 24-inch pipe into Harris County Flood Control District (HCFCD) ditch M122-00-00; thence to Willow Creek; thence to Spring Creek in Segment No. 1008 of the San Jacinto River Basin. The sludge will continue through two (2) aerobic digester basins, one (1) digester pre-mix basin and one (1) sludge holding basin, then will be disposed of by a contract hauler.



Spanish Translation:

El Distrito de Servicios Públicos Municipales del Condado de Harris No. 368 (CN600737621) opera la Instalación de Tratamiento de Aguas Residuales del Distrito Municipal de Servicios Públicos del Condado de Harris No. 368, RN102090553, una planta de procesamiento de lodos activados por nitrificación de una etapa. La instalación está ubicada 19744 1/2 Logan Briar Dr., en Tomball, Condado de Harris, Texas 77375.

Este permiso es para una renovación para descargar 1,275,000 galones por día de aguas residuales tratadas.

Se espera que las descargas de la instalación contengan contaminantes como la demanda bioquímica de oxígeno carbonoso (CBOD₅), sólidos suspendidos totales (TSS), nitrógeno amoníaco (NH₃-N) y *Escherichia coli*. Las aguas residuales domésticas se tratan mediante un único proceso de lodo activado por nitrificación. Las aguas residuales bombeadas desde la estación de bombeo entrarán en las obras de

cabecera que consisten en una pantalla de tambor y un separador de arena. Desde las cabeceras, las aguas residuales fluirán a través de dos (2) cuencas de aireación, dos (2) clarificadores de 52 pies de diámetro y dos (2) cuencas de contacto con cloro. El efluente clarificado fluirá desde la planta hasta el emisario a través de una tubería de 24 pulgadas hacia la zanja M122-00-00 del Distrito de Control de Inundaciones del Condado de Harris (HCFCD); de allí a Willow Creek; de allí a Spring Creek en el Segmento No. 1008 de la Cuenca del Río San Jacinto. El lodo continuará a través de dos (2) cuencas digestores aeróbicas, una (1) cuenca de premezcla digestora y una (1) cuenca de retención de lodos, luego será eliminada por un transportista contratado.

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

AGUAS RESIDUALES DOMÉSTICAS

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

1. Introduzca el nombre del solicitante aquí. (2. Introduzca el número de cliente aquí (es decir, CN6 #####).) 3. Elija del menú desplegable. 4. Introduzca el nombre de la instalación aquí. 5. Introduzca el número de entidad regulada aquí (es decir, RN1 #####). 6. Elija del menú desplegable. 7. Introduzca la descripción de la instalación aquí. La instalación 8. Elija del menú desplegable. ubicado 9. Introduzca la ubicación aquí. , en 10. Introduzca el nombre de la ciudad aquí. , Condado de 11. Introduzca el nombre del condado aquí. , Texas 12. Introduzca el código postal aquí. . 13. Introduzca el resumen de la solicitud de solicitud aquí. <<Para las aplicaciones de TLAP incluya la siguiente oración, de lo contrario, elimine:>> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable. tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.



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:
- 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):

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

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:Application type: ☒ Renewal ☐ Major Amendment ☐ Minor Amendment ☐ NewCounty: HARRIS Segment Number: 1008Admin Complete Date: 03/23/2023

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: Harris County Municipal Utility District No. 368

Permit No. WQ00 12044001EPA ID No. TX 0078433

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

19744 ½ Logan Briar Dr, Tomball, TX 77375

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

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

First and Last Name: Kameron Pugh

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

Title: District Engineer

Mailing Address: 13430 Northwest Freeway, Suite 700

City, State, Zip Code: Houston, TX 77040

Phone No.: (832)590-7187 Ext.: Fax No.:

E-mail Address: KPugh@idseg.com



2. List the county in which the facility is located: Harris
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 outfall, effluent flows north approximately 5,000 feet along Harris County Flood Control District (HCFCD) ditch M122-00-00 ; thence to Willow Creek (M100-00-00); thence approximately 9.5 miles to the northeast to Spring Creek Classified Segment No. 1008 of the San Jacinto River Basin

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

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

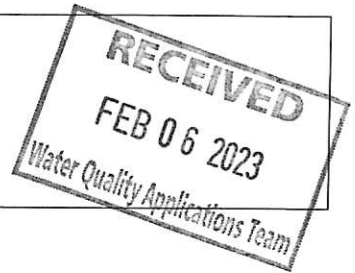
Does your project involve any of the following? Check all that apply.

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

☐ Disturbance of vegetation or wetlands

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

N/A



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

N/A

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

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

N/A

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

N/A

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** WQ0012044001

1. Check or Money Order Number: 218289
2. Check or Money Order Amount: \$2015.00
3. Date of Check or Money Order: 01/10/2023
4. Name on Check or Money Order: Texas Commission on Environmental Quality
5. APPLICATION INFORMATION

Name of Project or Site: Harris County Municipal Utility District No. 368 Wastewater Treatment Facility

Physical Address of Project or Site: 19744 ½ Logan Briar Dr, Tomball, TX 77375

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

Staple Check or Money Order in This Space



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ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 50)

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

Prefix (Mr., Ms., Miss): [REDACTED]

Full legal name (first, middle, last): [REDACTED]

Driver's License or State Identification Number: [REDACTED]

Date of Birth: [REDACTED]

Mailing Address: [REDACTED]

City, State, and Zip Code: [REDACTED]

Phone Number: [REDACTED] Fax Number: [REDACTED]

E-mail Address: [REDACTED]

CN: [REDACTED]



For Commission Use Only:

Customer Number:

Regulated Entity Number:

Permit Number:

CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

7.5 Minute USGS Quadrangle Topographic Map Attached ☐ Yes
(Full-size map if seeking "New" permit.
8 1/2 x 11 acceptable for Renewals and Amendments)

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

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



Things to Know:

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

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

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

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



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): 1275

2-Hr Peak Flow (MGD): 5.100

Estimated construction start date: 2018

Estimated waste disposal start date: 2019



C. Final Phase

Design Flow (MGD): 1.600

2-Hr Peak Flow (MGD): 6.400

Estimated construction start date: 2022

Estimated waste disposal start date: 2023

D. Current operating phase: Existing

Provide the startup date of the facility: 2004

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:

<p><u>Attachment No. 3</u></p>

Port or pipe diameter at the discharge point, in inches: 24

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)
Attachment No. 4		

C. Process flow diagrams

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

Attachment: No. 5

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: No. 6

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

Harris County Municipal Utility District No. 368 is a predominantly a single-family residential community.

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.

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.

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: Existing Phase -
Approved 2003; Interim Phase II - Approved 2007; Final Phase - Approved
2022

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.

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.

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*.

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.

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.

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.

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 0000 or TXRNE [REDACTED]

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:

4. Existing coverage in individual permit

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

Yes ☐ No ☐

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

5. Zero stormwater discharge

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

Yes ☐

No ☐

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

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.

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 BOD₅ concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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 BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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.

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	<2.0	<2.0	1	Comp	1/27/2023
Total Suspended Solids, mg/l	1.4	1.0	1	Comp	1/27/2023
Ammonia Nitrogen, mg/l	<0.1	<0.1	1	Comp	1/27/2023
Nitrate Nitrogen, mg/l	7.17	0.05	1	Comp	1/27/2023
Total Kjeldahl Nitrogen, mg/l	1.0	1.0	1	Comp	1/27/2023
Sulfate, mg/l	11.9	4.0	1	Comp	1/27/2023
Chloride, mg/l	32.8	5.0	1	Comp	1/27/2023
Total Phosphorus, mg/l	0.255	0.060	1	Comp	1/27/2023
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l	1.4	1.0	1	Comp	1/27/2023
Electrical Conductivity, μ mohs/cm, †					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l	28.0	20.0	1	Comp	1/27/2023

*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: Eagle Water Management, Inc.

Facility Operator's License Classification and Level: OC

Facility Operator's License Number: 0000065

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:

B. Sludge disposal site

Disposal site name: Fort Bend Regional Landfill (1797A) and New Earth Composting Katy (42041)

TCEQ permit or registration number: 1797A and 42041

County where disposal site is located: Harris

C. Sludge transportation method

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

Name of the hauler: Trinity Wastewater Solutions

Hauler registration number: 24738

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: [REDACTED]

- USDA Natural Resources Conservation Service Soil Map:

Attachment: [REDACTED]

- Federal Emergency Management Map:

Attachment: [REDACTED]

- Site map:

Attachment: [REDACTED]

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: [REDACTED]

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:

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: [REDACTED]

Total Kjeldahl Nitrogen, mg/kg: [REDACTED]

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: [REDACTED]

Phosphorus, mg/kg: [REDACTED]

Potassium, mg/kg: [REDACTED]

pH, standard units: [REDACTED]

Ammonia Nitrogen mg/kg: [REDACTED]

Arsenic: [REDACTED]

Cadmium: [REDACTED]

Chromium: [REDACTED]

Copper: [REDACTED]

Lead: [REDACTED]

Mercury: [REDACTED]

Molybdenum: [REDACTED]

Nickel: [REDACTED]

Selenium: [REDACTED]

Zinc: [REDACTED]

Total PCBs: [REDACTED]

Provide the following information:

Volume and frequency of sludge to the lagoon(s): [REDACTED]

Total dry tons stored in the lagoons(s) per 365-day period: [REDACTED]

[REDACTED]

Total dry tons stored in the lagoons(s) over the life of the unit: [REDACTED]

[REDACTED]

C. Liner information

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

Yes ☐ No ☐

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

[REDACTED]

D. Site development plan

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

Attach the following documents to the application.

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

Attachment:

- Copy of the closure plan

Attachment:

- Copy of deed recordation for the site

Attachment:

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

Attachment:

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

Attachment:

- Procedures to prevent the occurrence of nuisance conditions

Attachment:

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:

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:

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:

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: 

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: Roy P. Lackey

Title: Board President

Signature: _____

Date: 1/6/2023

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.

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:

If yes, attach correspondence from the city.

Attachment:

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:

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:

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:

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

Attachment:

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:

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): [REDACTED]

Average Influent Organic Strength or BOD₅ Concentration in mg/l: [REDACTED]

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): [REDACTED]

Provide the source of the average organic strength or BOD₅ concentration.

[REDACTED]

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		
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria,		

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD ₅ from all sources		

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l:

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l:

Other: [REDACTED]

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: [REDACTED]

Total Suspended Solids, mg/l: [REDACTED]

Ammonia Nitrogen, mg/l: [REDACTED]

Total Phosphorus, mg/l: [REDACTED]

Dissolved Oxygen, mg/l: [REDACTED]

Other: [REDACTED]

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: [REDACTED]

Total Suspended Solids, mg/l: [REDACTED]

Ammonia Nitrogen, mg/l: [REDACTED]

Total Phosphorus, mg/l: [REDACTED]

Dissolved Oxygen, mg/l: [REDACTED]

Other: [REDACTED]

D. Disinfection Method

Identify the proposed method of disinfection.

- ☐ Chlorine: [REDACTED] mg/l after [REDACTED] minutes detention time at peak flow
Dechlorination process: [REDACTED]
- ☐ Ultraviolet Light: [REDACTED] seconds contact time at peak flow
- ☐ Other: [REDACTED]

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: [REDACTED]

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.

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:

If **no**, provide the approximate date you anticipate submitting your application to the Corps:

B. Wind rose

Attach a wind rose. Attachment:

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: _____

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: _____

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

Attach a solids management plan to the application.

Attachment: _____

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:

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).

<input type="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).

--

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: HCFCU Unit No. M122-01-00

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.

Willow Creek (Segment ID 1008H) of the San Jacinto River Basin

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.

Just before HCFC Unit No. M122-01-00 reaches one-mile, it flows into unclassified Segment 1008H, Willow Creek, a natural freshwater stream.

E. Normal dry weather characteristics

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

Small amount of water flow downstream of effluent outfall, clear water

Date and time of observation: 12/15/2022

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.

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

B. Waterbody uses

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

- | | |
|--|---|
| <input type="checkbox"/> Livestock watering | <input type="checkbox"/> Contact recreation |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Navigation |

- | | |
|--|--|
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply |
| <input type="checkbox"/> Park activities | <input checked="" type="checkbox"/> Other(s), specify <u>Stormwater runoff</u> |

C. Waterbody aesthetics

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

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

DOMESTIC WORKSHEET 2.1

STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 75)

Date of study: Time of study:

Stream name:

Location:

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 75)

Number of stream bends that are well defined:

Number of stream bends that are moderately defined:

Number of stream bends that are poorly defined:

Number of riffles:

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

--

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 76)

Streambed slope of entire reach, from USGS map in feet/feet:

[REDACTED]

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): [REDACTED]

Length of stream evaluated, in feet: [REDACTED]

Number of lateral transects made: [REDACTED]

Average stream width, in feet: [REDACTED]

Average stream depth, in feet: [REDACTED]

Average stream velocity, in feet/second: [REDACTED]

Instantaneous stream flow, in cubic feet/second: [REDACTED]

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): [REDACTED]

Size of pools (large, small, moderate, none): [REDACTED]

Maximum pool depth, in feet: [REDACTED]

DOMESTIC WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications

Renewal, New, and Amendments

Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

- | | |
|--|--|
| <input type="checkbox"/> Surface application | <input type="checkbox"/> Subsurface application |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Subsurface soils absorption |
| <input type="checkbox"/> Drip irrigation system | <input type="checkbox"/> Subsurface area drip dispersal system |
| <input type="checkbox"/> Evaporation | |
| <input type="checkbox"/> Evapotranspiration beds | |
| <input type="checkbox"/> Other (describe in detail): | |

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

For existing authorizations, provide Registration Number:

Section 2. Land Application Site(s) (Instructions Page 77)

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

Table 3.0(1) - Land Application Site Crops

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

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

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 77)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type

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

Attachment:

Section 4. Flood and Runoff Protection (Instructions Page 77)

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

Yes ☐

No ☐

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

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

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

Section 5. Annual Cropping Plan (Instructions Page 77)

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

Attachment:

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

Section 6. Well and Map Information (Instructions Page 78)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

Attachment:

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)

- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1 mile of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

Attachment:

Section 7. Groundwater Quality (Instructions Page 79)

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

Indicate by a check mark that this report is provided.

Attachment: _____

Are groundwater monitoring wells available onsite? Yes ☐ No ☐

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

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

Attachment: _____

Section 8. Soil Map and Soil Analyses (Instructions Page 79)

A. Soil map

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

Attachment: _____

B. Soil analyses

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

Attachment: _____

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
				1

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 80)

Is the facility in operation?

Yes ☐ No ☐

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

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

Table 3.0(5) - Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD ₅ mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Date	30 Day Avg Flow MGD	BOD ₅ mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

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

DOMESTIC WORKSHEET 3.1

SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications.

Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 81)

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

A. Irrigation

Area under irrigation, in acres:

Design application frequency:

hours/day And days/week

Land grade (slope):

average percent (%):

maximum percent (%):

Design application rate in acre-feet/acre/year:

Design total nitrogen loading rate, in lbs N/acre/year:

Soil conductivity (mmhos/cm):

Method of application:

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

Attachment:

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day:

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

Attachment: [REDACTED]

C. Evapotranspiration beds

Number of beds: [REDACTED]

Area of bed(s), in acres: [REDACTED]

Depth of bed(s), in feet: [REDACTED]

Void ratio of soil in the beds: [REDACTED]

Storage volume within the beds, in acre-feet: [REDACTED]

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

Attachment: [REDACTED]

D. Overland flow

Area used for application, in acres: [REDACTED]

Slopes for application area, percent (%): [REDACTED]

Design application rate, in gpm/foot of slope width: [REDACTED]

Slope length, in feet: [REDACTED]

Design BOD₅ loading rate, in lbs BOD₅/acre/day: [REDACTED]

Design application frequency:

hours/day: [REDACTED] And days/week: [REDACTED]

[REDACTED]

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

Attachment: [REDACTED]

Section 2. Edwards Aquifer (Instructions Page 82)

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

Yes ☐

No ☐

If yes, attach a report concerning the recharge zone.

Attachment: 

DOMESTIC WORKSHEET 3.2

SUBSURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications. Renewal and minor amendments may require the worksheet on a case by case basis.

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

Section 1. Subsurface Application (Instructions Page 83)

Identify the type of system:

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

Application area, in acres: _____

Area of drainfield, in square feet: _____

Application rate, in gal/square foot/day: _____

Depth to groundwater, in feet: _____

Area of trench, in square feet: _____

Dosing duration per area, in hours: _____

Number of beds: _____

Dosing amount per area, in inches/day: _____

Infiltration rate, in inches/hour: _____

Storage volume, in gallons: _____

Area of bed(s), in square feet: _____

Soil Classification:

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

Attachment:

Section 2. Edwards Aquifer (Instructions Page 83)

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

Yes ☐ No ☐

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

Yes ☐ No ☐

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

DOMESTIC WORKSHEET 3.3

SUBSURFACE AREA DRIP DISPERSAL SYSTEM (SADDS) LAND DISPOSAL OF EFFLUENT

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

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

Section 1. Administrative Information (Instructions Page 84)

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

- B. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

Yes ☐ No ☐

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

- C. Owner of the subsurface area drip dispersal system:

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

Yes ☐ No ☐

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

- E. Owner of the land where the subsurface area drip dispersal system is located:

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

Yes ☐ No ☐

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

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 84)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify:

B. Irrigation operations

Application area, in acres:

Infiltration Rate, in inches/hour:

Average slope of the application area, percent (%):

Maximum slope of the application area, percent (%):

Storage volume, in gallons:

Major soil series:

Depth to groundwater, in feet:

C. Application rate

Is the facility located **west** of the boundary shown in 30 TAC § 222.83 and also using a vegetative cover of non-native grasses over seeded with cool

season grasses during the winter months (October-March)?

Yes ☐ No ☐

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

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

Yes ☐ No ☐

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

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

Yes ☐ No ☐

Hydraulic application rate, in gal/square foot/day:

Nitrogen application rate, in lbs/gal/day:

D. Dosing information

Number of doses per day:

Dosing duration per area, in hours:

Rest period between doses, in hours:

Dosing amount per area, in inches/day:

Number of zones:

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

Yes ☐ No ☐

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

Attachment:

Section 3. Required Plans (Instructions Page 84)

A. Recharge feature plan

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

Attachment: 


B. Soil evaluation

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

Attachment: 

C. Site preparation plan

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

Attachment: 

D. Soil sampling/testing

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

Attachment: 

Section 4. Floodway Designation (Instructions Page 85)

A. Site location

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

Yes ☐

No ☐

B. Flood map

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

Attachment: 

Section 5. Surface Waters in the State (Instructions Page 85)

A. Buffer Map

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

Attachment:

B. Buffer variance request

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

Yes ☐ No ☐

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

Attachment:

Section 6. Edwards Aquifer (Instructions Page 85)

A. Is the SADDs located on the Edwards Aquifer Recharge Zone as mapped by the TCEQ?

Yes ☐ No ☐

B. Is the SADDs located on the Edwards Aquifer Transition Zone as mapped by the TCEQ?

Yes ☐ No ☐

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

DOMESTIC 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: 1/27/2023 16:05

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
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5

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

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

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

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				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: 1/27/2023 16:05

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
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide (*2)				10
Phenols, Total				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
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane [Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				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
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol				20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentalchlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				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
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo- benzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				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
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2

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

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

Yes ☐ No ☐

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

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

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

Grab ☐ Composite ☒

Date and time sample(s) collected: 1/27/2023 16:05

TABLE 4.0(2)F - DIOXIN/FURAN COMPOUNDS

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

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WORKSHEET 5.0

TOXICITY TESTING REQUIREMENTS

The following is required for facilities with a currently-operating design flow greater than or equal to 1.0 MGD, with an EPA-approved pretreatment program (or those that are required to have one under 40 CFR Part 403), or are required by the TCEQ to perform Whole Effluent Toxicity testing. This worksheet is not required for minor amendments without renewal.

Section 1. Required Tests (Instructions Page 97)

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

7-day Chronic:

48-hour Acute:

Section 2. Toxicity Reduction Evaluations (TREs)

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

Yes ☐

No ☐

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

<div></div>

Section 3. Summary of WET Tests

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

Table 5.0(1) - Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

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: 0

Significant IUs - non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

Yes ☐

No ☒

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

<div></div>

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.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☐

No ☒

4/18/23 JA

If **yes**, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐

No ☒

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

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

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

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.

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.

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

A. General information

Company Name: N/A

SIC Code:

Telephone number: Fax number:

Contact name:

Address:

City, State, and Zip Code:

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).

C. Product and service information

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

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day:

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day:

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

Yes ☐ No ☐

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

Yes ☐ No ☐

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

Category:
Subcategories:

Category:
Subcategories:

Category:
Subcategories:

Category:
Subcategories:

Category:
Subcategories:

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.

--

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

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

For TCEQ Use Only

Reg. No. _____

Date Received _____

Date Authorized _____

Section 1. General Information (Instructions Page 102)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): _____

Program ID: _____

Contact Name: _____

Phone Number: _____

2. Agent/Consultant Contact Information

Contact Name: _____

Address: _____

City, State, and Zip Code: _____

Phone Number: _____

3. Owner/Operator Contact Information

Owner ☐

Operator ☐

Owner/Operator Name: _____

Contact Name: _____

Address: _____

City, State, and Zip Code: _____

Phone Number: _____

4. Facility Contact Information

Facility Name: _____

Address: [REDACTED]

City, State, and Zip Code: [REDACTED]

Location description (if no address is available): [REDACTED]

Facility Contact Person: [REDACTED]

Phone Number: [REDACTED]

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

Latitude: [REDACTED] Longitude: [REDACTED]

Method of determination (GPS, TOPO, etc.): [REDACTED]

Attach topographic quadrangle map as attachment A.

6. Well Information

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: [REDACTED]

Number of Injection Wells: [REDACTED]

7. Purpose

Detailed Description regarding purpose of Injection System:

[REDACTED]

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

8. Water Well Driller/Installer

Water Well Driller/Installer Name: [REDACTED]

City, State, and Zip Code: [REDACTED]

Phone Number: [REDACTED]

License Number:

Section 2. Proposed Down Hole Design

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

Table 7.0(1) -Down Hole Design Table

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

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

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

System(s) Dimensions:

System(s) Construction:

Section 4. Site Hydrogeological and Injection Zone Data

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

Impervious Strata between Injection Zone and nearest Underground

Source of Drinking Water:

Name:

Thickness:

8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: [REDACTED]

13. Maximum injection Rate/Volume/Pressure: [REDACTED]

14. Water wells within 1/4 mile radius (attach map as Attachment I): [REDACTED]

15. Injection wells within 1/4 mile radius (attach map as Attachment J): [REDACTED]

16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): [REDACTED]

17. Sampling frequency: [REDACTED]

18. Known hazardous components in injection fluid: [REDACTED]

Section 5. Site History

1. Type of Facility: [REDACTED]
2. Contamination Dates: [REDACTED]
3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): [REDACTED]
4. Previous Remediation: [REDACTED]

Attach results of any previous remediation as attachment M

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can

begin. Attach additional pages as necessary.

Class V Injection Well Designations

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

Attachments

Attachment No.

1. TCEQ Core Data Form 10400
2. USGS 7.5' Quadrangle Maps (Admin. Rpt. 1.0, Section 13)
3. Treatment Process Description (Tech. Rpt. 1.0, Section 2.A.)
4. Treatment Units (Tech. Rpt. 1.0, Section 2.B.)
5. Process Flow Diagrams (Tech. Rpt. 1.0, Section 2.C.)
 - a. Existing Phase 0.900 MGD Flow
 - b. Interim Phase 1.275 MGD Flow
 - c. Final Phase 1.600 MGD Flow
6. Site Drawing (Tech. Rpt. 1.0, Section 3.)
7. Sewage Sludge Solids Management Plan (Tech. Rpt. 1.0, Section 6.F.)
8. Pollutant Analyses Requirements – Laboratory Report (Tech. Rpt. 4.0, Section 1.)

ATTACHMENT NO. 1

Core Data Form 10400

ATTACHMENT NO. 2

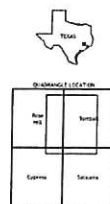
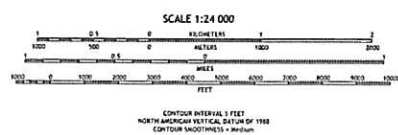
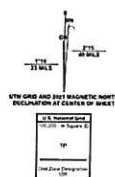
**USGS 7.5' Quadrangle Maps
(Admin. Rpt. 1.0, Section 13.)**



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84) Projection
1 000 meters per United States Nautical Mile, Zone 18E
Data is provided by The National map (TMS), is best available at the time of map generation.
The National map (TMS) is a product of the National Map Accuracy Council (NMAC).
Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover
and Other Information. Please see associated Federal Geographic Data Committee (FGDC)
products for additional source data information.

This may not be a legal document. Boundaries may be generalized for this map scale.
Boundaries are not shown as they may not be exact. Obtain boundaries
before entering private lands. Temporal changes may have occurred since the data
was collected and some data may no longer represent actual surface conditions.

Learn About The National map: <https://nationalmap.gov>



ROAD CLASSIFICATION

Expressway	_____	Local Connector	_____
Secondary Hwy	_____	Local Road	_____
Ramp	_____	dwp	_____

 Interstate Route  US Route  State Route

7.5-MINUTE TOPO 1, TX
2022

Attachment No. 2

ATTACHMENT NO. 3

**Treatment Process Description
(Tech. Rpt. 1.0, Section 2.A.)**

Technical Report 1.0

3. Treatment Units.

a. Description

Existing Phase. The existing phase plant operates as a single stage nitrification activated sludge process. It includes a headworks with manual bar screens, two (2) aeration basins with a total volume of 44,637 CF sized to treat 0.900 MGD average daily flow, two (2) 52 ft diameter clarifiers, and one (1) 6,760 CF chlorine contact basin sized for a 20 minute contact time at peak flow. Two 6-inch and two 8-inch return sludge airlift pumps are sized to produce 75 to 200 percent of average daily flow. Clarified effluent flows from the plant to the outfall via a 24-inch pipe. Two (2) aerobic digester basins with a total volume of 30,150 CF provides adequate capacity for sludge digestion. Sludge is be disposed by a contract hauler.

Interim Phase. The proposed plant will be operated as a single stage nitrification activated sludge process. It will include a headworks with a drum screen and grit separator, two (2) aeration basins with a total volume of 74,051 CF sized to treat 1.275 MGD average daily flow, two (2) 52 ft diameter clarifiers, and two (2) chlorine contact basins with a total of 12,150 CF, sized for a 20 minute contact time. Two 6-inch and two 8-inch return sludge airlift pumps are sized to produce 75 to 200 percent of average daily flow. Clarified effluent will flow from the plant to the outfall via a 24-inch pipe. Two (2) aerobic digester basins, one (1) digester pre-mix basin and one (1) sludge holding basin with a total volume of 24,736 CF will provide capacity for sludge digestion. Sludge will be disposed by a contract hauler.

Final Phase. The final plant will be operated as a single stage nitrification activated sludge process. It will include a headworks with drum screen and grit separator, three (3) aeration basins with a total volume of 89,663 CF sized to treat 1.600 MGD average daily flow, two (2) 52 ft diameter clarifiers and one (1) 38 ft diameter clarifier, and two (2) chlorine contact basins with a total of 12,150 CF, sized for a 20 minute contact time. Two 6-inch and two 8-inch return sludge airlift pumps are sized to produce 75 to 200 percent of average daily flow. Clarified effluent will flow from the plant to the outfall via a 24-inch pipe. Two (2) aerobic digester basins, one (1) digester pre-mix basin and one (1) sludge holding basin with a total volume of 24,736 CF will provide capacity for sludge digestion. Sludge will be disposed by a contract hauler.

ATTACHMENT NO. 4

**Treatment Units
(Tech. Rpt. 1.0, Section 2.B.)**

ATTACHMENT NO. 4

Technical Report 1.0

3. Treatment Units

e. Dimensions

Interim I Phase - 0.900 MGD (Existing)

Type	Number	Dimensions
Aeration	2	(1) 54.67' ID x 79.00' OD x 210 DEG x 14.50' D, (1) 52.00' ID x 83.00' OD x 175.00 DEG x 14.50' D
Clarifier	2	(1) 52' DIAMETER x 12.33'D, (1) 52' DIAMETER x 12.33'D
Chlorine Contact	1	(1) 52.00' ID x 82.00' OD x 61.7 DEG x 12.50' D
Digester	2	(1) 54.67' ID x 79.00' OD x 142 DEG x 14.74' D, (1) 52.00' ID x 82.00' OD x 120.00 DEG x 14.87' D

Interim II Phase - 1.275 MGD

Type	Number	Dimensions
Aeration	2	(1) 54.67' ID x 79.00' OD x 360 DEG x 14.50' D, (1) 54.67' ID x 83.00' OD x 300 DEG x 14.50' D
Clarifier	2	(1) 52' DIAMETER x 12.33'D, (1) 52' DIAMETER x 12.33'D
Chlorine Contact	2	(1) 15'W x 27'L x 15'D, (1) 15'W x 27'L x 15'D
Digester	4	(1) 22'W x 6'L x 16'D, (1) 15.67'W x 30.67'L x 16.5'D, (1) 15.67'W x 30.67'L x 16.5'D, (1) 52.00' ID x 82.00' OD x 61.7 DEG x 12.50' D
Dechlorination	1	(1) 3'W x 3.75'L x 14.5'D

Final Phase - 1.600 MGD

Type	Number	Dimensions
Aeration	3	(1) 54.67' ID x 79.00' OD x 360 DEG x 14.50' D, (1) 54.67' ID x 83.00' OD x 300 DEG x 14.50' D, (1) 40.67' ID x 55' OD x 360 DEG x 14.50' D
Clarifier	3	(1) 52' DIAMETER x 12.33'D, (1) 52' DIAMETER x 12.33'D, (1) 38' DIAMETER x 12.33'D
Chlorine Contact	2	(1) 15'W x 27'L x 15'D, (1) 15'W x 27'L x 15'D
Digester	4	(1) 22'W x 6'L x 16'D, (1) 15.67'W x 30.67'L x 16.5'D, (1) 15.67'W x 30.67'L x 16.5'D, (1) 52.00' ID x 82.00' OD x 61.7 DEG x 12.50' D
Dechlorination	1	(1) 3'W x 4.6'L x 14.5'D

ID = Inside Diameter

OD = Outside Diameter

DEG = Degrees of Annular Space

D = Depth

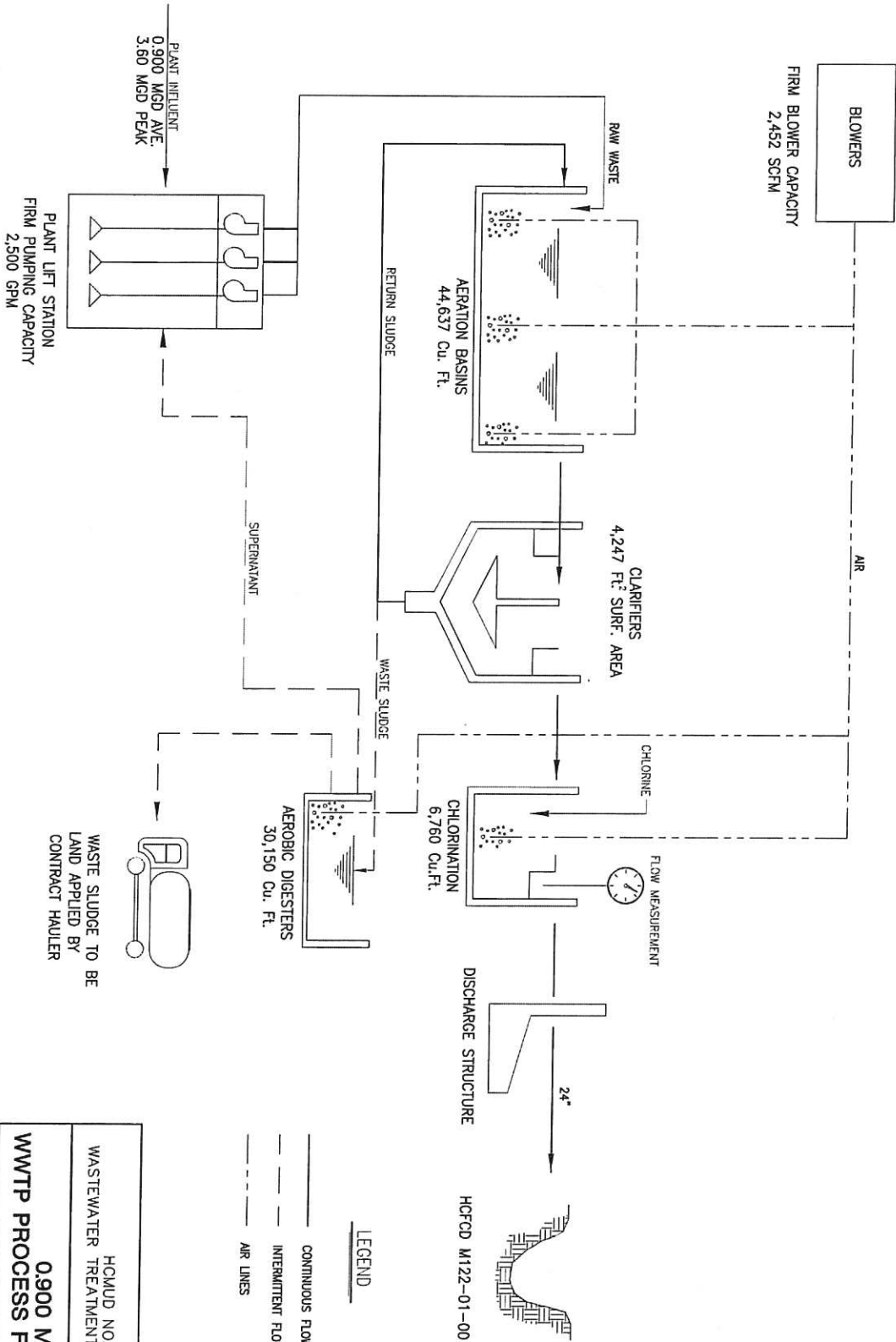
ATTACHMENT NO. 5

Process Flow Diagrams

- a. Existing Phase 0.900 MGD
- b. Interim Phase 1.275 MGD
- c. Final Phase 1.600 MGD

(Tech. Rpt. 1.0, Section 2.C.)

MODE OF TREATMENT ACTIVATED SLUDGE WITH NITRIFICATION



HCMUD NO. 368
WASTEWATER TREATMENT PLANT (EXISTING)

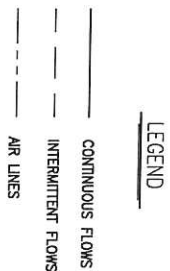
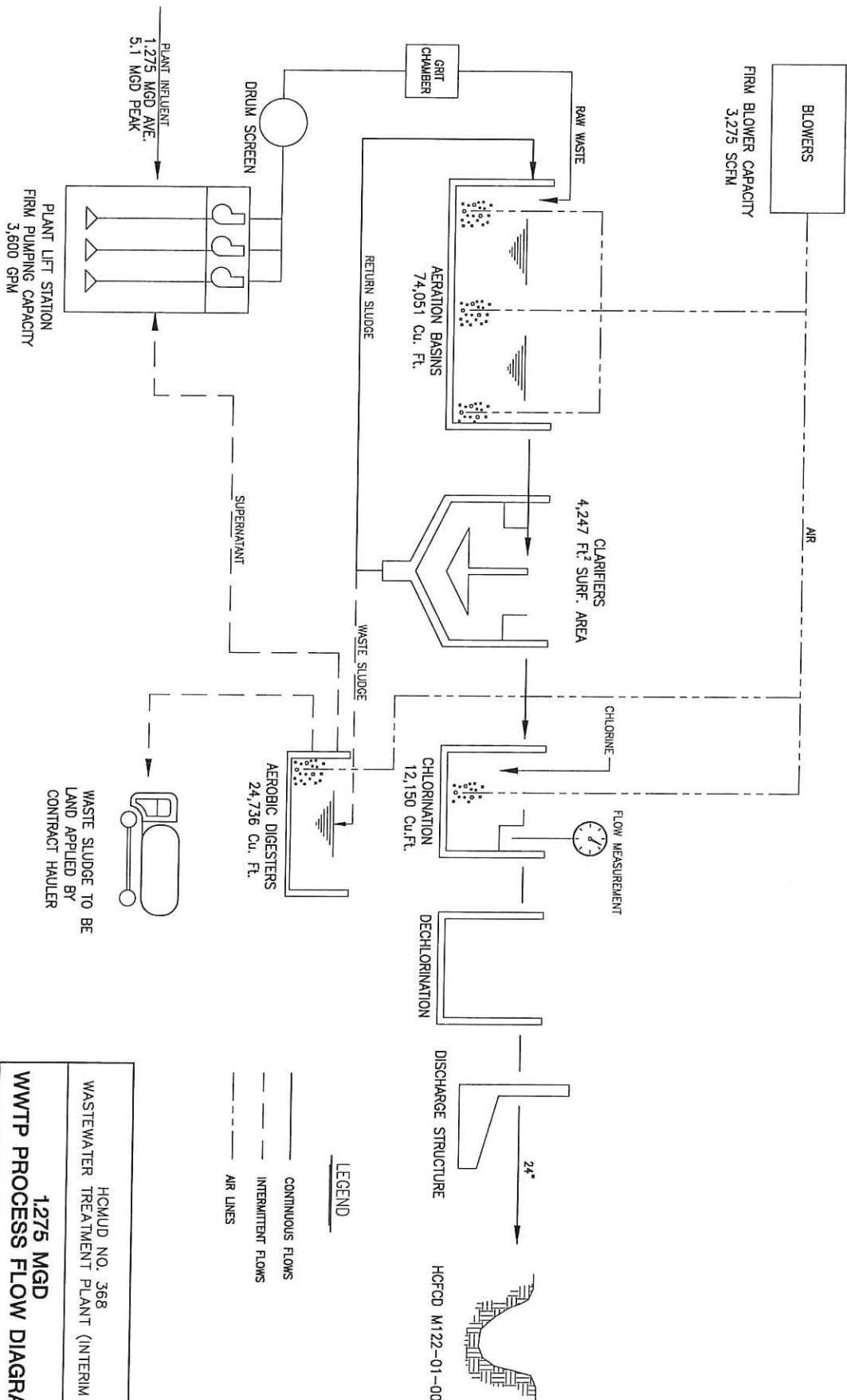
0.900 MGD
WWTP PROCESS FLOW DIAGRAM



13333 NW Freeway
Suite 300
Miami, FL 33146
773.462.3178

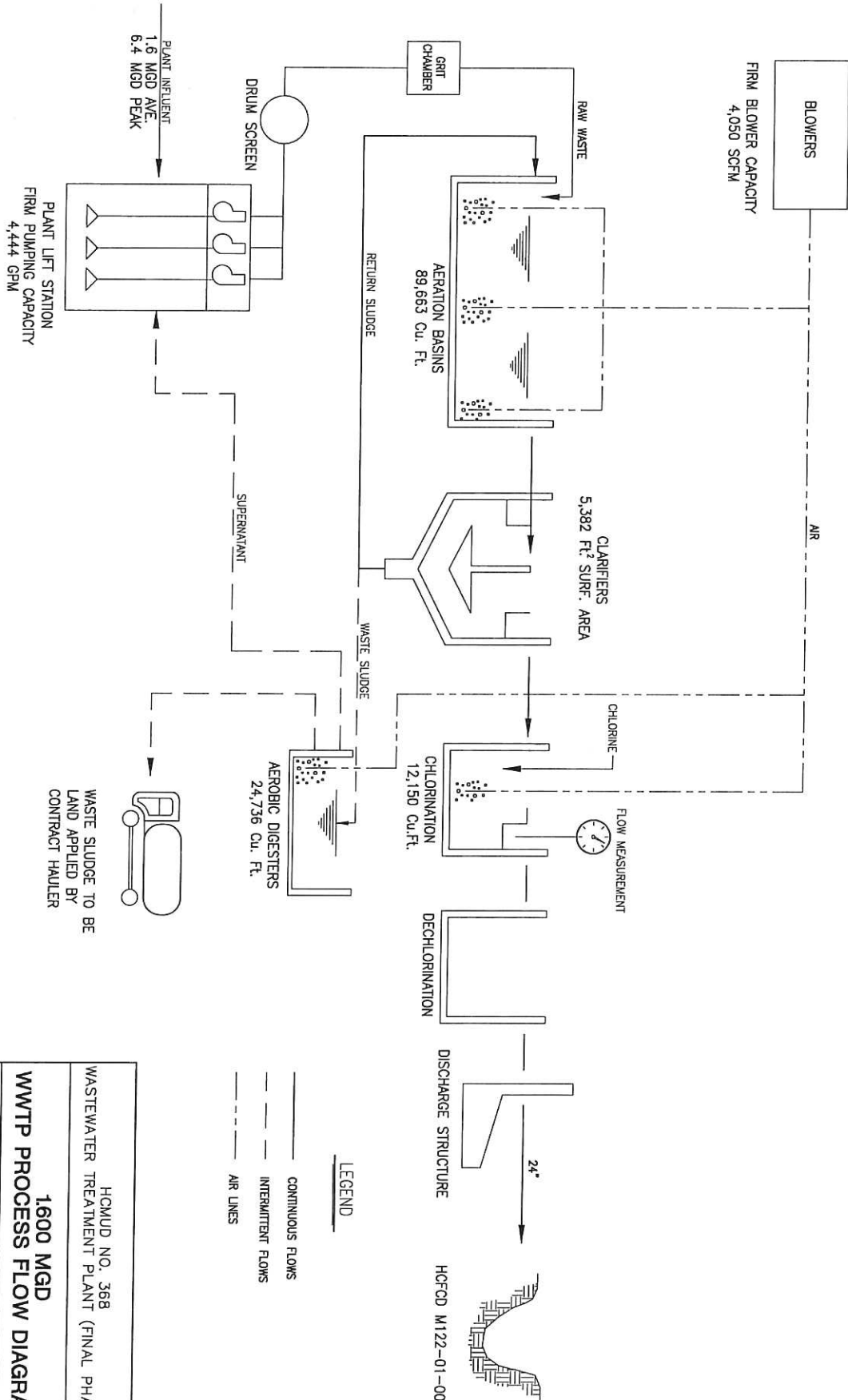
ATTACH. NO.:
JOB NO.:
DATE: JUNE 2007

MODE OF TREATMENT ACTIVATED SLUDGE WITH NITRIFICATION



HCMUD NO. 368 WASTEWATER TREATMENT PLANT (INTERIM I)		1275 MGD WWTP PROCESS FLOW DIAGRAM	
		13333 NW Freeway, Suite 300 Houston, TX 77040 713.461.1778	
ATTACH NO.: JOB NO.: DATE:		0456-134-00 JUNE 2007	

MODE OF TREATMENT ACTIVATED SLUDGE WITH NITRIFICATION



<p>HCMUD NO. 368 WASTEWATER TREATMENT PLANT (FINAL PHASE)</p>	
<p>1600 MGD WWTP PROCESS FLOW DIAGRAM</p>	
<p>IDS Engineering Group</p> <p>13333 NW Freeway, Suite 300 Hollywood, FL 33020 754.962.5178</p>	<p>ATTACH. NO.: S.C. JOB NO.: 0456-134-00 DATE: JUNE, 2007</p>

ATTACHMENT NO. 6

Site Drawing
(Tech. Rpt. 1.0, Section 3.)

Attachment No. 7

**Sewage Sludge Solids Management Plan
(Tech. Rpt. 1.0, Section 6.F.)**

SLUDGE MANAGEMENT PLAN - Harris Co. M.U.D. No. 368 Wastewater Facility

Phase I Capacity of Digester

Design Volume	0.90 MGD Influent Flow
Minimum Retention Time	15 days
Digester Volume	38,298 ft ³
Digester Sludge Retention Time	40 days

CBOD5 Removal	Influent concentration	200.0 mg/l
	Effluent concentration	10.0 mg/l
	Net removal	190.0 mg/l

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds BOD5/day removed	1,426	1,070	713	357
Pounds of dry sludge produced*	449	337	225	112
Pounds of wet sludge produced**	29,949	22,462	14,974	7,487
Volume of wet sludge produced in gals.	3,600	2,700	1,800	900
Volume of wet sludge produced in ft ³	481	361	241	120

*Assuming 0.315 pounds of dry sludge produced per pound of BOD5 removed.

**Assuming 1.5% solids.

MLSS operating range = 3000 mg/l

The sludge is wasted from the clarifier to the aerobic digester. At the digester the sludge is further processed to achieve sludge stabilization.

Removal Schedule (days)	100% Flow	75% Flow	50% Flow	25% Flow
Days between sludge removal	80	106	159	318

Following stabilization the sludge is periodically removed from the digester and hauled offsite by a registered hauler to a registered site.

SLUDGE MANAGEMENT PLAN - Harris Co. M.U.D. No. 368 Wastewater Facility

Phase II Capacity of Digester

Design Volume	1.28 MGD Influent Flow
Minimum Retention Time	15 days
Digester Volume	38,298 ft ³
Digester Sludge Retention Time	40 days

CBOD5 Removal	Influent concentration	200.0 mg/l
	Effluent concentration	10.0 mg/l
	Net removal	190.0 mg/l

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds BOD5/day removed	2,020	1,515	1,010	505
Pounds of dry sludge produced*	636	477	318	159
Pounds of wet sludge produced**	42,428	31,821	21,214	10,607
Volume of wet sludge produced in	5,099	3,825	2,550	1,275
Volume of wet sludge produced in	682	511	341	170

*Assuming 0.315 pounds of dry sludge produced per pound of BOD5 removed.

**Assuming 1.5% solids.

MLSS operating range = 3000 mg/l

The sludge is wasted from the clarifier to the aerobic digester. At the digester the sludge is further processed to achieve sludge stabilization.

Removal Schedule (days)	100% Flow	75% Flow	50% Flow	25% Flow
Days between sludge removal	56	75	112	225

Following stabilization the sludge is periodically removed from the digester and hauled offsite by a registered hauler to a registered site.

SLUDGE MANAGEMENT PLAN - Harris Co. M.U.D. No. 368 Wastewater Facility

Final Phase Capacity of Digester

Design Volume	1.60	MGD Influent Flow
Minimum Retention Time	15	days
Digester Volume	38,298	ft ³
Digester Sludge Retention Time	40	days

CBOD5 Removal	Influent concentration	200.0 mg/l
	Effluent concentration	10.0 mg/l
	Net removal	190.0 mg/l

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds BOD5/day removed	2,535	1,902	1,268	634
Pounds of dry sludge produced*	799	599	399	200
Pounds of wet sludge produced**	53,243	39,932	26,621	13,311
Volume of wet sludge produced in gals.	6,399	4,800	3,200	1,600
Volume of wet sludge produced in ft ³	855	642	428	214

*Assuming 0.315 pounds of dry sludge produced per pound of BOD5 removed.

**Assuming 1.5% solids.

MLSS operating range = 3000 mg/l

The sludge is wasted from the clarifier to the aerobic digester. At the digester the sludge is further processed to achieve sludge stabilization.

Removal Schedule (days)	100% Flow	75% Flow	50% Flow	25% Flow
Days between sludge removal	45	60	90	179

Following stabilization the sludge is periodically removed from the digester and hauled offsite by a registered hauler to a registered site.

Attachment No. 8

**Pollutant Analyses Requirements – Laboratory Report
(Tech. Rpt. 4.0, Section 1.)**



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Website: eastexlabs.com
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Tel: 936 653 3249



Harris County MUD 368
Eagle Management, Inc
19744 1/2 Logan Briar Dr
Tomball, Tx 77375

LABORATORY ANALYTICAL REPORT

Project: HC Mud 368 Short Permit Renewal

Sample Site:	Effluent PR	Sample Number:	Collector:						
Sample Type:	Composite	C3A6665-01	Sampled: 01/27/2023						
Sample Matrix:	Water		Received: 01/27/2023 16:05						
Client Matrix:	Water								
Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed	Analyst	Method	Notes
Alkalinity	28.0	20.0	mg CaCO3/L	A	B3A4139	01/31/2023 14:04	WLS	SM 2320 B	
Ammonia as N	<0.1	0.1	mg/L	A	B3A4120	01/31/2023 11:15	OCR	SM 4500 NH3 G	20
CBOD 5	<2.0	2.0	mg/L	A	B3A4009	01/27/2023 17:40	BJP	SM 5210 B	13
Chloride	32.8	5.0	mg/L	A	B3A4201	01/27/2023 16:30	TDS	EPA 300.0	
Conductivity	248	10	µmhos/cm @25C	A	B3A4196	01/31/2023 11:29	OCR	SM 2510 B	
Nitrate as N	7.17	0.05	mg/L	A	B3A4201	01/27/2023 16:30	TDS	EPA 300.0	
Sulfate	11.9	4.0	mg/L	A	B3A4201	01/27/2023 16:30	TDS	EPA 300.0	
TDS	164	10.0	mg/L	A	B3A4186	01/31/2023 10:52	OCR	SM 2540 C	
TKN	1.0	1.0	mg/L	A	B3B0160	02/02/2023 13:00	TRH	EPA 351.2	20
Total Phosphorus	0.255	0.0600	mg/L	A	B3B0115	02/02/2023 14:39	KJH	EPA 200.7	
TSS	1.4	1.0	mg/L	A	B3A4035	01/30/2023 16:07	HB	SM 2540 D	



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Harris County MUD 368
 Eagle Management, Inc
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 Tomball, Tx 77375

SM 5210 B - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3A4009 - No Prep										
Blank (B3A4009-BLK1)				Prepared & Analyzed: 01/27/23						
CBOD 5	ND	2.0	mg/L							
LCS (B3A4009-BS1)				Prepared & Analyzed: 01/27/23						
CBOD 5	145		mg/L	198		73.0	84.59-115.4			13
Duplicate (B3A4009-DUP1)				Source: C3A6360-01 Prepared & Analyzed: 01/27/23						
CBOD 5	0.680	2.0	mg/L		0.550			21.1	30	13
Batch B3A4035 - No Prep										
Blank (B3A4035-BLK1)				Prepared & Analyzed: 01/30/23						
TSS	ND	1.0	mg/L							
Duplicate (B3A4035-DUP1)				Source: C3A6460-01 Prepared & Analyzed: 01/30/23						
TSS	85.0	1.0	mg/L		77.5			9.23	10	
Batch B3A4120 - No Prep										
Blank (B3A4120-BLK1)				Prepared & Analyzed: 01/31/23						
Ammonia as N	ND	0.1	mg/L							
LCS (B3A4120-BS1)				Prepared & Analyzed: 01/31/23						
Ammonia as N	2.07		mg/L	2.00		103	90-110			
Matrix Spike (B3A4120-MS1)				Source: C3A6489-01 Prepared & Analyzed: 01/31/23						
Ammonia as N	2.4	0.1	mg/L	2.50	0.2	90.0	80-120			
Matrix Spike Dup (B3A4120-MSD1)				Source: C3A6489-01 Prepared & Analyzed: 01/31/23						
Ammonia as N	2.4	0.1	mg/L	2.50	0.2	91.6	80-120	1.61	20	



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Harris County MUD 368
Eagle Management, Inc
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Tomball, Tx 77375

SM 2320 B - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3A4139 - No Prep										
Blank (B3A4139-BLK1)				Prepared & Analyzed: 01/31/23						
Alkalinity	ND	20.0	mg CaCO ₃ /L							
LCS (B3A4139-BS1)				Prepared & Analyzed: 01/31/23						
Alkalinity	46.0		mg CaCO ₃ /L	50.0		92.0	80-120			
Duplicate (B3A4139-DUP1)				Source: C3A6230-01 Prepared & Analyzed: 01/31/23						
Alkalinity	94.0	20.0	mg CaCO ₃ /L		94.0			0.00	20	
Batch B3A4186 - No Prep										
Blank (B3A4186-BLK1)				Prepared & Analyzed: 01/31/23						
TDS	ND	10.0	mg/L							
LCS (B3A4186-BS1)				Prepared & Analyzed: 01/31/23						
TDS	244		mg/L	300		81.3	80-120			
Duplicate (B3A4186-DUP1)				Source: C3A6183-01 Prepared & Analyzed: 01/31/23						
TDS	680	10.0	mg/L		664			2.38	10	
Batch B3A4196 - No Prep										
Blank (B3A4196-BLK1)				Prepared & Analyzed: 01/31/23						
Conductivity	ND	10	µmhos/cm @25C							
LCS (B3A4196-BS1)				Prepared & Analyzed: 01/31/23						
Conductivity	1010		µmhos/cm @25C	1000		101	80-120			
Duplicate (B3A4196-DUP1)				Source: C3A6652-01 Prepared & Analyzed: 01/31/23						
Conductivity	4620	10	µmhos/cm @25C		4610			0.217	20	



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Eagle Management, Inc
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EPA 300.0 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3A4201 - No Prep										
Blank (B3A4201-BLK1)				Prepared & Analyzed: 01/27/23						
Chloride	ND	5.0	mg/L							
Nitrate as N	ND	0.05	mg/L							
Sulfate	ND	4.0	mg/L							
LCS (B3A4201-BS1)				Prepared & Analyzed: 01/27/23						
Chloride	23.7		mg/L	25.0		94.7	90-110			
Nitrate as N	1.4362		mg/L	1.50		95.7	90-110			
Sulfate	19.4		mg/L	20.0		96.9	90-110			
Matrix Spike (B3A4201-MS1)				Source: C3A7111-01		Prepared & Analyzed: 01/27/23				
Chloride	243	5.0	mg/L	125	104	111	80-120			
Nitrate as N	24.4237	0.05	mg/L	7.50	16.6712	103	80-120			
Sulfate	151	4.0	mg/L	100	40.2	111	80-120			
Matrix Spike Dup (B3A4201-MSD1)				Source: C3A7111-01		Prepared & Analyzed: 01/27/23				
Chloride	243	5.0	mg/L	125	104	111	80-120	0.0617	20	
Nitrate as N	24.3564	0.05	mg/L	7.50	16.6712	102	80-120	0.276	20	
Sulfate	150	4.0	mg/L	100	40.2	110	80-120	0.552	20	
Batch B3B0115 - EPA 200.7										
Blank (B3B0115-BLK1)				Prepared: 02/01/23 Analyzed: 02/02/23						
Total Phosphorus	ND	0.0600	mg/L							
LCS (B3B0115-BS1)				Prepared: 02/01/23 Analyzed: 02/02/23						
Total Phosphorus	2.19	0.0600	mg/L	2.52		87.0	85-115			
Matrix Spike (B3B0115-MS1)				Source: C3A5166-01		Prepared: 02/01/23 Analyzed: 02/02/23				
Total Phosphorus	8.95	0.0600	mg/L	2.52	6.28	106	70-130			
Matrix Spike Dup (B3B0115-MSD1)				Source: C3A5166-01		Prepared: 02/01/23 Analyzed: 02/02/23				
Total Phosphorus	9.50	0.0600	mg/L	2.52	6.28	128	70-130	6.03	20	



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EPA 351.2 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B0160 - SM 4500 Norg C										
Blank (B3B0160-BLK1)				Prepared & Analyzed: 02/02/23						
TKN	ND	1.0	mg/L							
LCS (B3B0160-BS1)				Prepared & Analyzed: 02/02/23						
TKN	9.35		mg/L	10.0		93.5	80-120			
Matrix Spike (B3B0160-MS1)				Source: C3A5237-01 Prepared & Analyzed: 02/02/23						
TKN	18.3	1.0	mg/L	20.0	1.19	85.4	80-120			
Matrix Spike Dup (B3B0160-MSD1)				Source: C3A5237-01 Prepared & Analyzed: 02/02/23						
TKN	18.0	1.0	mg/L	20.0	1.19	84.1	80-120	1.39	20	

Mark Bourgeois, Special Projects Manager

Qualifiers

- 20 Sample pH not <2.
13 LCS associated with sample batch outside of acceptance limits.

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Date, 2025

Mr. Kameron Pugh, P.E.
District Engineer, IDS Engineering Group
13430 Northwest Freeway, Suite 700
Houston, Texas 77040

RE: Notice of Preliminary Decision and Draft Permit
Applicant Name: Harris County Municipal Utility District No. 368
Facility Name: Harris County MUD 368 WWTP
Permit No.: WQ0012044001
Customer Reference Number: CN600737621
Regulated Entity Number: RN102080553
Type of Application: Renewal

Dear Mr. Pugh,

The executive director has completed the technical review of the above referenced application, received on February 6, 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
Chief Clerk
Office of the Chief Clerk
Texas Commission on Environmental Quality

LG/JH/CIA team member initials

Enclosures

Mr. Kameron Pugh, P.E., Page 3
Date, 2025
Permit No. WQ0012044001

bcc: TCEQ Region 12, Water Program Manager

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Date, 2025

Mr. Kameron Pugh, P.E.
District Engineer, IDS Engineering Group
13430 Northwest Freeway, Suite 700
Houston, Texas 77040

RE: Permit Application
Permit No.: WQ0012044001
Harris County Municipal Utility District No. 368
Harris County MUD 368 WWTP
Harris County
Customer Reference Number: CN600737621
Regulated Entity Number: RN102080553

Dear Mr. Pugh:

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/JH/CIA team member initials

Enclosures

cc: TCEQ Region 12, Water Program Manager



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Mr. Kameron Pugh, P.E.
District Engineer, IDS Engineering Group
13430 Northwest Freeway, Suite 700
Houston, Texas 77040

Re: Harris County Municipal Utility District No. 368 - TPDES Permit No.
WQ0012044001, EPA ID No. TX0078433 (CN600737621; RN102080553)

Dear Mr. Pugh:

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. The Pretreatment Requirements are continued in the draft permit.
3. The facility mailing address and location description have been updated according to the information provided in the application.
4. The existing effluent limitations for all phases have been continued in the draft permit.
5. 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.
6. Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.
7. The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

8. This application was declared administratively complete on March 23, 2023. 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 melinda.luxemburg@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) 239-4541, or if by correspondence, include MC 148 in the letterhead address following my name.

Sincerely,

Melinda Luxemburg

Melinda Luxemburg, P.E.
Permit Coordinator
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division, Texas Commission on Environmental Quality

ML/SW

Enclosures

Mr. Kameron Pugh, P.E.
Page 3

cc: Mr. Andrew Johnson, Attorney, Johnson Petrov LLP, 2929 Allen Parkway, Suite
3150, Houston, Texas 77019

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Deba Dutta, Team Leader
MAL 6/12/23 Municipal Team, Wastewater Permitting Section

Date: June 8, 2023

From: Melinda Luxemburg, P.E., Municipal Permits Team

APPLICANT: Harris County Municipal Utility District No. 368

PLANT NAME: Harris County MUD 368 WWTP

TPDES PERMIT NO: WQ0012044001

EPA ID No: TX0078433

FILE NAME: C:\Users\jhearn\Texas Commission on Environmental Quality\Water
Quality Division - Documents\o Division Documents\Wastewater Permitting
Section\MUNI\PERMIT FILES\WQ0012044001\Working
Folder\WQ0012044001_DRAFT.docx

Admin Complete Date: 3/23/2023
Standards Memo: 3/23/2023
Critical Condition Memo: 3/28/2023
Modeling Memo: 4/11/2023
Biomonitoring Memo: 4/12/2023

Pretreatment Memo: 4/25/2023
Assign Date: 4/26/2023
Tech Complete Date: 6/12/2023
RFI Letter Date: N/A
Response Letter Date: N/A

☒ Public Domestic
☐ Private Domestic

PERMIT TYPE

☒ Discharge (TPDES)
☐ Land Application

☒ Major (> 1 MGD)

PERMIT ACTION

Renewal

PERMIT PACKAGE

YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Transmittal letter to applicant
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Transmittal letter to EPA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fact Sheet and ED Preliminary Decision for major TPDES Permit
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Permit Draft
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Biomonitoring Requirements for Major TPDES Permits
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pretreatment Requirements for POTWs
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Authorization to land apply or dispose of Class B Biosolids or sewage sludge on property adjacent to WWTP in draft permit.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Includes appropriate other requirements (including quarterly and annual reporting, soil monitoring, language in notice and fact sheet, attachments).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	EPA REVIEW CHECKLIST
<input checked="" type="checkbox"/>	<input type="checkbox"/>	FACILITY PROCESS FORM for PARIS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TEXTOX Printout in file
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NOTICE for admin complete on or after 9/1/99
<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAPTION (also saved in H:\EVERYONEwq\CAPTION)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Legislative Notice (SB709) required (H:\WQ_WQ Division-New Network Drive/Wastewater Permitting Section\MUNI\PERMIT FILES_Working Files\WQ0012044001)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	MAJOR/MINOR DETERMINATION if needed
<input type="checkbox"/>	<input checked="" type="checkbox"/>	LOCATED IN THE COASTAL ZONE (if located in coastal zone, include CMP Threshold Sheet)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SPELLCHECK: DRAFT PERMIT/TECH SUM/SOB/FACT SHEET/NOTICE/LETTER(S)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SCHEDULE FOR ERC Part A: All major permits and permits in Edwards Aquifer area are scheduled for ERC
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Located in the Edwards Aquifer area:

☒ ☐ **COMPLIANCE HISTORY:** *CN600737621=Satisfactory (0.29)/RN102080553=Satisfactory (0.29)*
☐ ☒ ENFORCEMENT ORDER(S); ERC Part C on N/A
☐ ☒ CHANGES TO THE DRAFT PERMIT based on discussion at ERC

COMMENTS: Renewal of the existing permit that authorizes the discharge of treated domestic wastewater at daily average flow not to exceed 0.90 million gallons per day (MGD) in the Interim I phase, an annual average flow not to exceed 1.275 MGD in the Interim II phase, and an annual average flow not to exceed 1.60 MGD in the Final phase. The existing effluent limitations, based on a 30-day average, of 10 mg/l carbonaceous biochemical oxygen demand, 5-day (CBOD₅), 15 mg/l total suspended solids (TSS), 3 mg/l ammonia-nitrogen (NH₃-N), report total aluminum (TA), report total zinc (TZ), 63 colony-forming units (CFU) or most probable number (MPN) of *Escherichia coli* (*E. coli*) per 100 ml bacteria, and 6.0 mg/l minimum dissolved oxygen (DO) in the Interim I phase; 10 mg/l CBOD₅, 15 mg/l TSS, 2 mg/l NH₃-N, report TA, report TZ, 63 CFU or MPN of *E. coli* per 100 ml bacteria, and 5.0 mg/l minimum DO in the Interim II phase; and 10 mg/l CBOD₅, 15 mg/l TSS, 2 mg/l NH₃-N, report TA, report TZ, 63 CFU or MPN of *E. coli* per 100 ml bacteria, and 6.0 mg/l minimum DO in the Final phase are continued in the draft permit. The facility mailing address and location description have been updated according to the information provided in the application. Retests for mercury were received on April 11, 2025, and are below the 70% daily average value for both Aquatic Life and Human Health.

**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: **Melinda Luxemburg, P.E.**
Phone: **(512) 239-4541**

E-Mail ID: **melinda.luxemburg@tceq.texas.gov**

Date Request Submitted:

Comments Deadline: Within 7 days

Date Application Received by TCEQ in Austin: **February 6, 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: **Renewal**

TEAM ASSIGNED: **MUNICIPAL**

APPLICATION TYPE: ☒ **TPDES** ☐ **TLAP**

REGULATED ENTITY NO.: **RN102080553**

PERMIT NO.: **WQ0012044001**

CUSTOMER REFERENCE NO.: **CN600737621**

COMPANY NAME: **Harris County Municipal Utility District No. 368**

PLANT NAME: **Harris County MUD 368 WWTP**

ADDRESS: **c/o Johnson Petrov LLP, 2929 Allen Parkway, Suite 3150, Houston, Texas 77019**

SEGMENT: **1008**

COUNTY: **Harris**

TECHNICAL CONTACT: **Mr. Kameron Pugh, P.E.**

PHONE: **832-590-7187**

PERMIT CLASSIFICATION: **MAJOR**

COMPLIANCE RATING: **CN600737621=Satisfactory (0.29)/RN102080553=Satisfactory (0.29)**

SUMMARY OF APPLICATION REQUEST: Renewal of the existing permit that authorizes the discharge of treated domestic wastewater at daily average flow not to exceed 0.90 million gallons per day (MGD) in the Interim I phase, an annual average flow not to exceed 1.275 MGD in the Interim II phase, and an annual average flow not to exceed 1.60 MGD in the Final phase.

PERMIT WRITER COMMENTS: The existing effluent limitations, based on a 30-day average, of 10 mg/l carbonaceous biochemical oxygen demand, 5-day (CBOD₅), 15 mg/l total suspended solids (TSS), 3 mg/l ammonia-nitrogen (NH₃-N), report total aluminum (TA), report total zinc (TZ), 63 colony-forming units (CFU) or most probable number (MPN) of *Escherichia coli* (*E. coli*) per 100 ml bacteria, and 6.0 mg/l minimum dissolved oxygen (DO) in the Interim I phase; 10 mg/l CBOD₅, 15 mg/l TSS, 2 mg/l NH₃-N, report TA, report TZ, 63 CFU or MPN of *E. coli* per 100 ml bacteria, and 5.0 mg/l minimum DO in the Interim II phase; and 10 mg/l CBOD₅, 15 mg/l TSS, 2 mg/l NH₃-N, report TA, report TZ, 63 CFU or MPN of *E. coli* per 100 ml bacteria, and 6.0 mg/l minimum DO in the Final phase are continued in the draft permit. The facility mailing address and location description have been updated according to the information provided in the application. Retests for mercury were received on April 11, 2025, and are below the 70% daily average value for both Aquatic Life and Human Health.

RESPONSE TO REQUEST FOR COMMENTS ON DRAFT PERMIT

TO: Melinda Luxemburg, P.E.

FROM: Region 12

Copy of Application Received by your Office: ☐ YES ☐ NO Date Received: _____

COMPANY NAME: Harris County Municipal Utility District No. 368

PERMIT NO.: WQ0012044001

REGULATED ENTITY NO: RN102080553

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: _____

AGENDA CAPTION FOR PERMIT NO. WQ0012044001

Harris County Municipal Utility District No. 368 has applied to the Texas Commission on Environmental Quality for a renewal of Texas Pollutant Discharge Elimination System Permit No. WQ0012044001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 1,600,000 gallons per day. The facility is located at 19744 1/2 Logan Briar Drive, in Harris County, Texas 77375.

MUNICIPAL EPA REVIEW CHECKLIST

Permittee Name: Harris County Municipal Utility District No. 368
Permit Number: TPDES Permit No. WQ0012044001, EPA ID No. TX0078433

NOTE: Minor amendments, endorsements, and minor modifications (except for pretreatment) are exempt from EPA review. However, HSC permits Seg Nos. 1001, 1005, 1006, 1007, 1016, 2426, 2427, 2428, 2429, 2430, and 2436 require review by modeling to ensure that the loading is consistent with the revised WLE-1R, so you may need to check with the modeler or check the most recent modeling memo to confirm that the loading is consistent.

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

- | | | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Discharge from a designated major facility |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Discharge from a POTW with an approved pretreatment program |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Discharge from a facility with a daily/annual average flow >1.0 MGD |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Discharge to a critical concern species watershed that requires EPA review |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Discharge that includes a request for a water quality variance |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Storm water discharge to high priority species watershed |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | First time implementation of a final TMDL for an existing facility |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | After a final TMDL, a permit with effluent limits that allow loadings in excess of those prescribed by the TMDL for the segment. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Discharge directly to territorial seas of the United States (from the coastline to 3 miles out but not including Bays and Estuaries) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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: Melinda Luxemburg, P.E.

Date: June 8, 2023

MUNICIPAL MAJOR/MINOR DETERMINATION

Permittee Name: Harris County Municipal Utility District No. 368

Permit Number: TPDES Permit No. WQ0012044001, EPA ID No. TX0078433

Type of Application: Renewal

Check Appropriate Classification:

☒ Major
☐ Minor

Permitted Flow: 1.6 MGD

Permit Writer: Melinda Luxemburg, P.E.

Date: June 8, 2023

PARIS FACILITY EXTENSION - TREATMENT PROCESS
TPDES PERMIT NO. WQ0012044001

PERMITTEE: Harris County Municipal Utility District No. 368
PLANT NAME: Harris County MUD 368 WWTP
Application Type: Renewal ☒ Interim ☐ 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

10 Trickling 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 plays
E8 Monitoring wells
E9 Biomonitoring
F7 Stormwater (SSO)
F8 Unconventional

PERMIT Melinda Luxemburg, P.E.
Municipal Permits Team
Wastewater Permitting Section, Water Quality Division
Date: June 8, 2023

Texas Commission on Environmental Quality



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

RENOVACIÓN

PERMISO NO. WQ0012044001

SOLICITUD Y DECISIÓN PRELIMINAR. Harris County Municipal Utility District No. 368, c/o Johnson Petrov LLP, 2929 Allen Parkway, Suite 3150, Houston, Texas 77019, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) una renovación del Permiso No. WQ0012044001, que autoriza la descarga de aguas residuales domésticas tratadas a un caudal promedio anual que no exceda los 1,600,000 galones por día. TCEQ recibió esta solicitud el 6 de febrero de 2023.

La instalación está ubicada en 19744 1/2 Logan Briar Drive, en el Condado de Harris, Texas 77375. El efluente tratado se descarga en Harris County Flood Control District (HCFCD) ditch M122-00-00, de allí a Willow Creek, de allí a Spring Creek en el Segment No. 1008 de la San Jacinto River Basin. Los usos no clasificados del agua receptora son el uso mínimo de vida acuática para HCFCD y el uso de alta vida acuática para Willow Creek. Los usos designados para el Segment No. 1008 son la recreación de contacto primario, el suministro de agua pública y el uso de alta vida acuática. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no es parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.597222,30.050833&level=18>

El Director Ejecutivo de la TCEQ ha completado el examen técnico de la solicitud y ha preparado un proyecto de permiso. El borrador del permiso, de ser aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar de que este permiso, si se expide, cumple con todos los requisitos legales y reglamentarios. La solicitud de permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para su visualización y copia en la Texas Commission on Environmental Quality, Region 12, 5425 Polk Street, Suite H, Houston, Texas.

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-notice>.

COMENTARIO PÚBLICO / REUNIÓN PÚBLICA. Puede enviar comentarios públicos o solicitar una reunión pública sobre esta solicitud. El propósito de una reunión pública es brindar la oportunidad de enviar comentarios o hacer preguntas sobre la solicitud. TCEQ lleva a cabo 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 todos los comentarios oportunos y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. **A menos que la solicitud se remita directamente para una audiencia de caso impugnado, la respuesta a los comentarios se enviará por correo a todos los que presentaron comentarios públicos y a las personas que están en la lista de correo de esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia de caso impugnado o una reconsideración de 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, DEBE INCLUIR LOS SIGUIENTES ELEMENTOS EN SU SOLICITUD: su nombre, dirección, número de teléfono; nombre del solicitante y número de permiso propuesto; la ubicación y distancia de su propiedad/actividades en relación con la instalación propuesta; una descripción específica de cómo se vería afectado negativamente por la instalación de una manera que no es común para el público en general; una lista de todas las cuestiones de hecho en disputa que envíe durante el período de comentarios; y la declaración "[Yo/nosotros] solicito una audiencia de caso impugnado". Si la solicitud de audiencia de caso impugnado se presenta en nombre de un grupo o asociación, la solicitud debe designar al representante del grupo para recibir correspondencia futura; identificar por nombre y dirección física a un miembro individual del grupo que se vería afectado negativamente por la instalación o actividad propuesta; proporcionar la información mencionada anteriormente con respecto a la ubicación y la distancia del miembro afectado de la instalación o actividad; explicar cómo y por qué el miembro se vería afectado; y explicar cómo los intereses que el grupo busca proteger son relevantes para el propósito del grupo.

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

La Comisión solo puede conceder una solicitud de audiencia de un caso impugnado sobre cuestiones que el solicitante presentó en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de una audiencia se limitará a cuestiones de hecho en disputa o preguntas mixtas de hecho y derecho relacionadas con preocupaciones relevantes y materiales sobre la calidad del agua presentadas durante el período de comentarios.** TCEQ puede actuar sobre una solicitud para renovar un permiso para la descarga de aguas residuales sin brindar la oportunidad de una audiencia de caso impugnado si se cumplen ciertos criterios.

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 a

tiempo 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 presenta comentarios públicos, una solicitud para 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 avisos públicos futuros enviados por correo por la Oficina del Secretario Principal. Además, puede solicitar ser incluido en: (1) la lista de correo permanente para un nombre de solicitante específico y un número de permiso; y/o (2) la lista de correo de un condado específico. Si desea ser incluido en la lista de correo permanente y/o del condado, especifique claramente qué lista(s) y envíe su solicitud a la Oficina del Secretario Principal de TCEQ a la dirección que se indica a continuación.

Todos los comentarios públicos por escrito y las solicitudes de reuniones públicas deben enviarse a la Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente en 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 más información 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 públicos y las solicitudes deben presentarse electrónicamente en www.tceq.texas.gov/goto/comment, o por escrito a la 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 se convertirá en parte del registro de la agencia; Esto incluye direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al TCEQ Public Education Program, Toll Free, at 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 en la Harris County Municipal Utility District No. 368 en la dirección indicada anteriormente o llamando al Sr. Kameron Pugh, P.E., District Engineer, IDS Engineering Group, at 832-590-7187.

Fecha de emisión: _____

John Hearn

From: Kameron Pugh (IDS) <KPugh@idseg.com>
Sent: Thursday, May 29, 2025 5:19 PM
To: John Hearn
Cc: Vonda Riley (IDS); Matthew Carpenter (IDS); James Capps (IDS)
Subject: RE: WQ0012044001_Harris Co. MUD No. 368
Attachments: WQ0012044001_Translated NAPD.docx

Follow Up Flag: Follow up
Flag Status: Flagged

John,

We have no comments on the draft permit. Attached is the translated NAPD.

We really appreciate the diligence from you and the permitting staff on this one and are grateful for the opportunity to re-sample for mercury and provide updated lab data. Please let me know if you need anything else.

Thanks,



Kameron Pugh, P.E.
Senior Project Manager

13430 Northwest Freeway, Suite 700, Houston, Texas 77040
Main: 713.462.3178 | Direct: 832.590.7187 | Cell: 325.236.3943
KPugh@idseg.com

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TxEng Firm 2726 | TxSurv Firm 10110700

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From: John Hearn <John.Hearn@tceq.texas.gov>
Sent: Thursday, May 29, 2025 3:03 PM
To: Kameron Pugh (IDS) <KPugh@idseg.com>
Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>
Subject: RE: WQ0012044001_Harris Co. MUD No. 368

[EXTERNAL EMAIL]

Hello,

Any update about the below? Still waiting on a response for this one.

Thanks,

John

From: John Hearn
Sent: Monday, April 28, 2025 4:09 PM
To: Kameron Pugh (IDS) <KPugh@idseg.com>
Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>
Subject: RE: WQ0012044001_Harris Co. MUD No. 368

Good afternoon Kameron,

Thank you for the pollutant analysis. Since the TCEQ has received the pollutant analysis, labs, and worksheet 4.0. I have removed the Other Requirement No. 10 from the draft permit and made other small revisions. Please review the attached revised draft permit, NAPD, and tech summary.

Please provide either comments or acceptance on the draft as well as a translation of the NAPD ASAP.

Please let me know if you have any questions.

Thanks!
John

From: Kameron Pugh (IDS) <KPugh@idseg.com>
Sent: Friday, April 11, 2025 11:07 AM
To: John Hearn <John.Hearn@tceq.texas.gov>
Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>
Subject: RE: WQ0012044001_Harris Co. MUD No. 368

John,

We received the first two results yesterday afternoon and the last two today. I've attached the four samples. Please let me know what else you need to complete this process and if you have any questions regarding the updated results.

Thanks,



Kameron Pugh, P.E.
Senior Project Manager

13430 Northwest Freeway, Suite 700, Houston, Texas 77040
Main: 713.462.3178 | Direct: 832.590.7187 | Cell: 325.236.3943

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From: John Hearn <John.Hearn@tceq.texas.gov>
Sent: Friday, April 11, 2025 9:09 AM

To: Kameron Pugh (IDS) <KPugh@idseg.com>

Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>

Subject: RE: WQ0012044001_Harris Co. MUD No. 368

[EXTERNAL EMAIL]

Hello Kameron,

Any update about the below Mercury retest sampling? Please let me know.

Thanks,
John

From: Kameron Pugh (IDS) <KPugh@idseg.com>

Sent: Wednesday, March 12, 2025 11:03 AM

To: John Hearn <John.Hearn@tceq.texas.gov>

Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>

Subject: RE: WQ0012044001_Harris Co. MUD No. 368

John,

There has been construction activity ongoing at the Wastewater Treatment Plant, so we have been coordinating between the lab and the contractor onsite to schedule the sampling program you outlined below at a time when construction activities would not interfere with the regular two week mercury sampling. We are now finished with the construction, and the MUD is gathering the two-week period mercury samples. Is it possible to extend the deadline to allow time to obtain and process the new mercury samples?

Attached are the accredited lab reports that you've requested. I will update Worksheet 4.0 once we have the updated mercury results. We appreciate you working through this process with us and allowing us to provide a more robust sampling analysis for mercury. Please let me know if you have any questions or need anything else while we obtain these additional samples.

Thanks,



Kameron Pugh, P.E.
Senior Project Manager

13430 Northwest Freeway, Suite 700, Houston, Texas 77040

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From: John Hearn <John.Hearn@tceq.texas.gov>

Sent: Friday, March 7, 2025 12:02 PM

To: Kameron Pugh (IDS) <KPugh@idseg.com>

Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>

Subject: RE: WQ0012044001_Harris Co. MUD No. 368

[EXTERNAL EMAIL]

Hello all,

What is the status of the below?

Thanks,
John

From: John Hearn

Sent: Monday, February 10, 2025 4:38 PM

To: Kameron Pugh (IDS) <KPugh@idseg.com>

Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>

Subject: RE: WQ0012044001_Harris Co. MUD No. 368

Hello all,

Sorry for the delay in this response, there has been a large increase in permits and permit related activity (contested case hearings, public meetings, etc...). I have a couple things I need info about.

- 1.) The attached Mercury Lab has a result of 0.092 ug/L. As Melinda said previously, If the effluent data for mercury is equal to or greater than 0.024 µg/L then a monitoring and reporting requirement may be added to the draft permit. If the effluent data for mercury is equal to or greater than 0.029 µg/L then a daily average effluent limit of 0.154 µg/L for the protection of human health may be added to the draft permit. Please clarify the effluent data results for mercury. Therefore, I would like for the City to offer an opportunity to perform sampling for Mercury for a period of two weeks; two samples per week (not on consecutive days), and have the analytical results for all four events back to me as soon as possible, but no later than COB **Monday; March 3, 2025**. I will move forward with the permit as soon as I receive the resampling results.
- 2.) The attached DW 4.0 that you sent to me has the incorrect Mercury results. Please revise and resubmit them to me.
- 3.) I do not have a copy of the Accredited Lab Reports for all the pollutants on the DW 4.0. They were not included in the application submitted on 2/6/2023. Can you please submit them to me.

Please reply ASAP, but no later than Monday, March 3, 2025 for the other required informations.

Feel free to contact me if you have questions.

Thank you!

John

From: Kameron Pugh (IDS) <KPugh@idseg.com>
Sent: Wednesday, October 16, 2024 10:58 AM
To: John Hearn <John.Hearn@tceq.texas.gov>
Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>
Subject: RE: WQ0012044001_Harris Co. MUD No. 368

John,

Attached is the email chain with Melinda as well as a copy of the completed Domestic Report 1.0 and Domestic Worksheet 4.0. Please let me know if you need anything else.

Thanks,



Kameron Pugh, P.E.
Senior Project Manager

13430 Northwest Freeway, Suite 700, Houston, Texas 77040
Main: 713.462.3178 | Direct: 832.590.7187 | Cell: 325.236.3943
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From: John Hearn <John.Hearn@tceq.texas.gov>
Sent: Wednesday, October 16, 2024 10:14 AM
To: Kameron Pugh (IDS) <KPugh@idseg.com>
Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>
Subject: RE: WQ0012044001_Harris Co. MUD No. 368

[EXTERNAL EMAIL]

Thank you for the response. Can you please send me these correspondences?

I do not have a filled out **Domestic Worksheet 4.0** on file, please provide this to me **ASAP but no later than Wednesday, October 23, 2024** so that the review of the permit application can proceed in a timely manner.

Thanks.
John

From: Kameron Pugh (IDS) <KPugh@idseg.com>
Sent: Thursday, October 10, 2024 1:31 PM
To: John Hearn <John.Hearn@tceq.texas.gov>

Cc: Vonda Riley (IDS) <VRiley@idseg.com>; Matthew Carpenter (IDS) <MCarpenter@idseg.com>; James Capps (IDS) <jcapps@idseg.com>

Subject: RE: WQ0012044001_Harris Co. MUD No. 368

John,

I apologize for the delay. I have been out of the office the past few weeks. We were working with Melinda on this permit and provided additional requested information, resulting in the removal of Other Requirement No. 10 in the draft permit. After further review, Melinda reached out regarding the lab results which contained a mercury sample that was significantly higher than the other mercury results and appeared to have potentially been a bad sample/lab reading. We obtained new mercury samples at Melinda's request, but I don't have any record of further correspondence after re-sampling. I've attached those updated mercury samples.

Please let me know what you need from us to move forward with issuing the permit renewal. Feel free to call if you have any questions or would like to discuss further.

Thanks,



Kameron Pugh, P.E.
Senior Project Manager

13430 Northwest Freeway, Suite 700, Houston, Texas 77040
Main: 713.462.3178 | Direct: 832.590.7187 | Cell: 325.236.3943
KPugh@idseg.com

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From: John Hearn <John.Hearn@tceq.texas.gov>
Sent: Wednesday, September 25, 2024 4:37 PM
To: Kameron Pugh (IDS) <KPugh@idseg.com>; ajohnson@johnsonpetrov.com
Cc: Vonda Riley (IDS) <VRiley@idseg.com>
Subject: WQ0012044001_Harris Co. MUD No. 368

[EXTERNAL EMAIL]

Hello,

Since Melinda has left the agency, I have taken over this permit application. According to the TCEQ database, the draft permit was sent out to the applicant on 6/23/2023. Has acceptance of the draft ever been reached? Please bring me up to speed as to where we are in this permit application.

Thanks!
John



P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249



October 30, 2023

Harris County Municipal District 368
Harris County MUD 368
19744 1/2 Logan Briar Dr
Tomball, Tx 77375

RE: **HC Mud 368 Long Permit Renewal**

Enclosed are the results of analyses for samples received by the laboratory on 08/04/23 13:15, with Lab ID Number C3H2518. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mark Bourgeois
Special Projects Manager

ANALYTICAL REPORT

PREPARED FOR

Attn: Mark Bourgeois
Eastex Environmental Laboratory Inc.
PO BOX 1089
Coldspring, Texas 77331

Generated 8/16/2023 4:23:17 PM

JOB DESCRIPTION

Coldspring

JOB NUMBER

860-55195-1

Eurofins Houston

Job Notes

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

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

Authorization



Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

Generated
8/16/2023 4:23:17 PM

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Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

Job ID: 860-55195-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-55195-1

Receipt

The samples were received on 8/11/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Metals

Method 1631E: The samples were received in 500mL clear glass bottles.

Method 1631E: The following sample was diluted to bring the concentration of target analytes within the calibration range: HC Mud 368 Long Permit Renewal (860-55195-1). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

Client Sample ID: HC Mud 368 Long Permit Renewal

Lab Sample ID: 860-55195-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury - DL	0.092		0.010		ug/L	20		1631E	Total/NA

Client Sample ID: HC Mud 368 Long Permit Renewal LL Blank

Lab Sample ID: 860-55195-2

☐ No Detections.

Client Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

Client Sample ID: HC Mud 368 Long Permit Renewal

Lab Sample ID: 860-55195-1

Date Collected: 08/04/23 00:00

Matrix: Water

Date Received: 08/11/23 10:00

Method: EPA 1631E - Mercury, Low Level (CVAFS) - DL									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.092		0.010		ug/L		08/15/23 14:50	08/16/23 11:42	20

Client Sample ID: HC Mud 368 Long Permit Renewal LL Blank

Lab Sample ID: 860-55195-2

Date Collected: 08/04/23 00:00

Matrix: Water

Date Received: 08/11/23 10:00

Method: EPA 1631E - Mercury, Low Level (CVAFS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00050		ug/L		08/15/23 14:50	08/16/23 11:30	1

QC Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

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

Lab Sample ID: MB 400-637163/3-A

Matrix: Water

Analysis Batch: 637270

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 637163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00050		ug/L		08/15/23 16:00	08/16/23 09:28	1

Lab Sample ID: LCS 400-637163/4-A

Matrix: Water

Analysis Batch: 637270

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 637163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00509		ug/L		102	79 - 121

Lab Sample ID: LCSD 400-637163/5-A

Matrix: Water

Analysis Batch: 637270

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 637163

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Mercury	0.00500	0.00518		ug/L		104	79 - 121	2 20

Lab Sample ID: 400-241973-B-1-A MS

Matrix: Water

Analysis Batch: 637270

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 637163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0018		0.00500	0.00786		ug/L		122	71 - 125

Lab Sample ID: 400-241973-C-1-A MSD

Matrix: Water

Analysis Batch: 637270

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 637163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Mercury	0.0018		0.00500	0.00788		ug/L		122	71 - 125	0 24

Eurofins Houston

QC Association Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

Metals

Prep Batch: 637163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-55195-1 - DL	HC Mud 368 Long Permit Renewal	Total/NA	Water	1631E	
860-55195-2	HC Mud 368 Long Permit Renewal LL Blank	Total/NA	Water	1631E	
MB 400-637163/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-637163/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-637163/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
400-241973-B-1-A MS	Matrix Spike	Total/NA	Water	1631E	
400-241973-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	

Analysis Batch: 637270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-55195-1 - DL	HC Mud 368 Long Permit Renewal	Total/NA	Water	1631E	637163
860-55195-2	HC Mud 368 Long Permit Renewal LL Blank	Total/NA	Water	1631E	637163
MB 400-637163/3-A	Method Blank	Total/NA	Water	1631E	637163
LCS 400-637163/4-A	Lab Control Sample	Total/NA	Water	1631E	637163
LCSD 400-637163/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	637163
400-241973-B-1-A MS	Matrix Spike	Total/NA	Water	1631E	637163
400-241973-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	637163

Lab Chronicle

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

Client Sample ID: HC Mud 368 Long Permit Renewal

Lab Sample ID: 860-55195-1

Date Collected: 08/04/23 00:00

Matrix: Water

Date Received: 08/11/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E	DL		40 mL	40 mL	637163	08/15/23 14:50	VLC	EET PEN
							Completed: 637270	08/16/23 09:04 ¹		
Total/NA	Analysis	1631E	DL	20			637270	08/16/23 11:42	VLC	EET PEN

Client Sample ID: HC Mud 368 Long Permit Renewal LL Blank

Lab Sample ID: 860-55195-2

Date Collected: 08/04/23 00:00

Matrix: Water

Date Received: 08/11/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	637163	08/15/23 14:50	VLC	EET PEN
							Completed: 637270	08/16/23 09:04 ¹		
Total/NA	Analysis	1631E		1			637270	08/16/23 11:30	VLC	EET PEN

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	09-01-23
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

Method Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
1631E	Preparation, Mercury, Low Level	EPA	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Sample Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Coldspring

Job ID: 860-55195-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-55195-1	HC Mud 368 Long Permit Renewal	Water	08/04/23 00:00	08/11/23 10:00
860-55195-2	HC Mud 368 Long Permit Renewal LL Blank	Water	08/04/23 00:00	08/11/23 10:00

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P O Box 1089 Coldspring, Texas 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel. 936 653 3249

cut photos



SUBCONTRACT ORDER

Sending Laboratory:

Eastex Environmental Laboratory - Coldspring
PO Box 1089
Coldspring, TX 77331
Phone 936-653-3249
Fax 936-653-3172

Subcontracted Laboratory:

Eurofins Xenco LLC
4147 Greenbriar Dr.
Stafford, TX 77477
Phone: 713-690-4444
Fax 713-690-5646

PO 081123A

PROJECT NAME

Harris County MUD 368

Turnaround

10 DAYS

Matrix

Water

Containers	Date	Time	EEL Sample ID	Sample Type	Sample No.	Analysis to be Performed
1	8/4/23	12 00 am	HC Mud 368 Long Permit Renewal	Composite	C3H2518-01	Mercury LL Blank
1				Composite		Mercury LL

Special Instructions:

☐ See Attached



860-55195 Chain of Custody

Temp. 33 IR ID: HOU-338
C/F -0.3
Corrected Temp: 30

Received Iced Y/N Temp _____

Released By

8/11/23 10:00
Date & Time

Received By

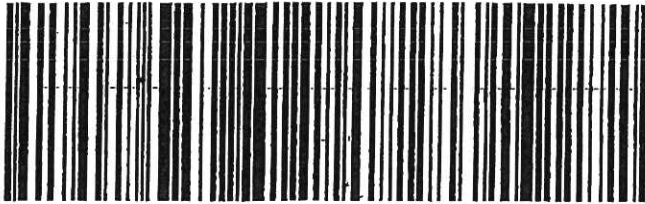
08/11/23 10:00
Date & Time

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Environment Testing

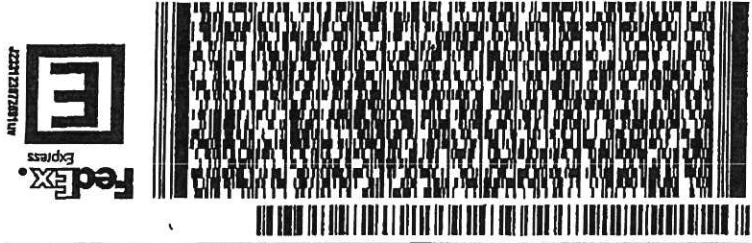
Ver: 06/08/2021

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XH PNSA
32514 BFM FL-US

TUE - 15 AUG 10:30A
PRIORITY OVERNIGHT
7730 4762 0343
TRK# 0201



SHIP DATE: 14AUG23
ACTWGT: 10.00 LB
CAD: 110189707/NET4640
BILL SENDER
TO BENJAMIN WHATLEY
EUROFINS PENSACOLA
3355 MCLEMORE DRIVE
PENSACOLA FL 32514
REF: (850) 474-1001
DEPT: INV PO
3.50c
IR118D
683J575949AEB

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-55195-1

Login Number: 55195

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-55195-1

Login Number: 55195

List Number: 2

Creator: Earnest, Tamantha

List Source: Eurofins Pensacola

List Creation: 08/15/23 01:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 • Coldspring, TX 77331
(936) 653-3249 • (800) 525-0508
P.O. Box 631375 • Nacogdoches, TX 75963-1375
(936) 569-8879 • FAX (936) 569-8951

www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

INVOICE TO:

Company: Eagle

Address: on file

Attn:

Phone#:

Email:

P.O. #:

Sampler's Name (print):

Sampler's Signature:

Project Name: Hemm 3108

Work Order ID

Sample ID

Date

Time

Matrix

C or G

DO

pH

CI2

Flow

Temp

Preservatives:

Type:

Containers

Field Data

#

Size

Type

Pres

ANALYSIS REQUESTED

Mercury - P.R.

Remarks:

comp

Relinquished By:

Received By:

Date

Time

Received Iced: YES / NO

Date

Time

Received Iced: YES / NO

Date

Time

Relinquished By:

Received By:

Date

Time

Received Iced: YES / NO

Date

Time

Received Iced: YES / NO

Date

Time

Relinquished By:

Received By:

Date

Time

Received Iced: YES / NO

Date

Time

Received Iced: YES / NO

Date

Time

LAB USE ONLY

Sample Condition Acceptable:

YES / NO

Date

Time

Temp C

*Therm ID

Logged In By:

Date

Time

Alternate Check In:

Date

Time

Temp C

*Therm ID

Logged In By:

Date

Time

Date

Time

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

DOMESTIC TECHNICAL REPORT 1.0

POLLUTANT ANALYSES REQUIREMENTS

Section 7. Pollutant Analysis of Treated Effluent

For pollutants identified in Table 1.0(2), indicate type of sample of Grab or Composite.

Date and time sample(s) collected:

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	Sample Type	MAL (µg/l)
CBOD ₅ , mg/l	<2.0	<2.0	1	Comp	50
Total Suspended Solids (TSS), mg/l	1.4	1.4	1	Comp	0.01
Ammonia Nitrogen (NH ₃ -N), mg/l	<0.1	<0.1	1	Comp	2.5
Nitrate Nitrogen, mg/l	7.17	7.17	1	Comp	10
Total Kjeldahl Nitrogen (TKN), mg/l	1.0	1.0	1	Comp	5
Sulfate, mg/l	11.9	11.9	1	Comp	0.5
Chloride, mg/l	32.8	32.8	1	Comp	3
Total Phosphorus, mg/l	0.255	0.255	1	Comp	10
pH, standard units (SU)	7.3	8.3	2	Grab	50
Dissolved Oxygen (DO), mg/l	7.9	7.9	1	Grab	5
Chlorine Residual, mg/l	1.93	3.13	2	Grab	5
<i>E.coli</i> (CFU or MPN/100 ml)	2	2	1	Grab	10
Total Dissolved Solids, mg/l	164	164	1	Comp	10
Oil & Grease, mg/l	11.5	11.5	1	Grab	10
Alkalinity (CaCO ₃), mg/l	28.0	28.0	1	Comp	10

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES REQUIREMENTS*

Section 1. Toxic Pollutants

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

Grab x Composite

Date and time sample(s) collected:

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<50.0	<50.0	1	50
Aldrin	<0.010	<0.010	1	0.01
Aluminum	23.4	23.4	1	2.5
Anthracene	<1.02	<1.02	1	10
Antimony	<5.00	<5.00	1	5
Arsenic	<0.500	<0.500	1	0.5
Barium	36.2	36.2	1	3
Benzene	<10.0	<10.0	1	10
Benzidine	<20.5	<20.5	1	50
Benzo(a)anthracene	<1.02	<1.02	1	5
Benzo(a)pyrene	<1.02	<1.02	1	5
Bis(2-chloroethyl)ether	<1.02	<1.02	1	10
Bis(2-ethylhexyl)phthalate	<7.68	<7.68	1	10
Bromodichloromethane	<10.0	<10.0	1	10
Bromoform	<10.0	<10.0	1	10
Cadmium	<1.00	<1.00	1	1
Carbon Tetrachloride	<2.00	<2.00	1	2
Carbaryl	<2.58	<2.58	1	5
Chlordane	<0.0103	<0.0103	1	0.2

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorobenzene	<10.0	<10.0	1	10
Chlorodibromomethane	<10.0	<10.0	1	10
Chloroform	<10.0	<10.0	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	<3.00	<3.00	1	3
Chromium (Tri) (*1)	<3.00	<3.00	1	N/A
Chromium (Hex)	<3.00	<3.00	1	3
Copper	3.26	3.26	1	2
Chrysene	<1.02	<1.02	1	5
p-Chloro-m-Cresol	<2.46	<2.46	1	10
4,6-Dinitro-o-Cresol	<8.19	<8.19	1	50
p-Cresol	<6.35	<6.35	1	10
Cyanide (*2)	<5.00	<5.00	1	10
4,4'- DDD	<0.0103	<0.0103	1	0.1
4,4'- DDE	<0.0103	<0.0103	1	0.1
4,4'- DDT	<0.0103	<0.0103	1	0.02
2,4-D	<0.511	<0.511	1	0.7
Demeton (O and S)	<0.0517	<0.0517	1	0.20
Diazinon	<0.0517	<0.0517	1	0.5/0.1
1,2-Dibromoethane	<10.0	<10.0	1	10
m-Dichlorobenzene	<1.02	<1.02	1	10
o-Dichlorobenzene	<1.02	<1.02	1	10
p-Dichlorobenzene	<1.02	<1.02	1	10
3,3'-Dichlorobenzidine	<5.00	<5.00	1	5
1,2-Dichloroethane	<10.0	<10.0	1	10
1,1-Dichloroethylene	<10.0	<10.0	1	10

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Dichloromethane	<10.0	<10.0	1	20
1,2-Dichloropropane	<10.0	<10.0	1	10
1,3-Dichloropropene	<10.0	<10.0	1	10
Dicofol	<0.103	<0.103	1	1
Dieldrin	<0.0103	<0.0103	1	0.02
2,4-Dimethylphenol	<2.46	<2.46	1	10
Di-n-Butyl Phthalate	<7.68	<7.68	1	10
Diuron	<0.0465	<0.0465	1	0.09
Endosulfan I (alpha)	<0.010	<0.010	1	0.01
Endosulfan II (beta)	<0.0103	<0.0103	1	0.02
Endosulfan Sulfate	<0.0103	<0.0103	1	0.1
Endrin	<0.0103	<0.0103	1	0.02
Ethylbenzene	<10.0	<10.0	1	10
Fluoride	212	212	1	500
Guthion	<0.0517	<0.0517	1	0.1
Heptachlor	<0.010	<0.010	1	0.01
Heptachlor Epoxide	<0.010	<0.010	1	0.01
Hexachlorobenzene	<1.02	<1.05	1	5
Hexachlorobutadiene	<1.02	<1.02	1	10
Hexachlorocyclohexane (alpha)	<0.0103	<0.0103	1	0.05
Hexachlorocyclohexane (beta)	<0.0103	<0.0103	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.0103	<0.0103	1	0.05
Hexachlorocyclopentadiene	<9.21	<9.21	1	10
Hexachloroethane	<1.02	<1.02	1	20
Hexachlorophene	<5.16	<5.16	1	10

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WQ0012044001
Harris County Municipal Utility District No. 368

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Lead	<0.500	<0.500	1	0.5
Malathion	<0.0517	<0.0517	1	0.1
Mercury	4.86	4.86	1	0.005
Methoxychlor	<0.0103	<0.0103	1	2
Methyl Ethyl Ketone	<50.0	<50.0	1	50
Mirex	<0.0155	<0.0155	1	0.02
Nickel	<2.00	>2.00	1	2
Nitrate-Nitrogen	3170	3170	1	100
Nitrobenzene	<1.02	<1.02	1	10
N-Nitrosodiethylamine	<1.02	<1.02	1	20
N-Nitroso-di-n-Butylamine	<1.02	<1.02	1	20
Nonylphenol	<30.2	<30.2	1	333
Parathion (ethyl)	<0.0517	<0.0517	1	0.1
Pentachlorobenzene	<1.02	<1.02	1	20
Pentachlorophenol	<1.02	<1.02	1	5
Phenanthrene	<1.02	<1.02	1	10
Polychlorinated Biphenyls (PCB's) (*3)	<0.200	<0.200	1	0.2
Pyridine	<5.53	<5.53	1	20
Selenium	<5.00	<5.00	1	5
Silver	<0.500	<0.500	1	0.5
1,2,4,5-Tetrachlorobenzene	<1.02	<1.02	1	20
1,1,2,2-Tetrachloroethane	<10.0	<10.0	1	10
Tetrachloroethylene	<10.0	<10.0	1	10
Thallium	<5.00	<5.00	1	0.5
Toluene	<10.0	<10.0	1	10
Toxaphene	<0.0103	<0.0103	1	0.3

Appendix A
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Harris County Municipal Utility District No. 368

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2,4,5-TP (Silvex)	<0.300	<0.300	1	0.3
Tributyltin (see instructions for explanation)	NA	NA	0	0.01
1,1,1-Trichloroethane	<10.0	<10.0	1	10
1,1,2-Trichloroethane	<10.0	<10.0	1	10
Trichloroethylene	<10.0	<10.0	1	10
2,4,5-Trichlorophenol	<1.02	<1.02	1	50
TTHM (Total Trihalomethanes)	<10.0	<10.0	1	10
Vinyl Chloride	<10.0	<10.0	1	10
Zinc	31.3	31.3	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.

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab Composite x

Date and time sample(s) collected:

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	<5.00	<5.00	1	5
Arsenic	<0.500	<0.500	1	0.5
Beryllium	<0.500	<0.500	1	0.5
Cadmium	<1.00	<1.00	1	1
Chromium (Total)	<3.00	<3.00	1	3
Chromium (Hex)	<3.00	<3.00	1	3
Chromium (Tri) (*1)	<3.00	<3.00	1	N/A
Copper	3.26	3.26	1	2
Lead	<0.500	<0.500	1	0.5
Mercury	0.0154	0.0154	1	0.005
Nickel	<2.00	<2.00	1	2
Selenium	<5.00	<5.00	1	5
Silver	<0.500	<0.500	1	0.5
Thallium	<0.500	<0.500	1	0.5
Zinc	31.3	31.3	1	5
Cyanide (*2)	<5.00	<5.00	1	10
Phenols, Total	<10.0	<10.0	1	10

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

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

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

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	<10.0	<10.0	1	50
Acrylonitrile	<50.0	<50.0	1	50
Benzene	<10.0	<10.0	1	10
Bromoform	<10.0	<10.0	1	10
Carbon Tetrachloride	<2.00	<2.00	1	2
Chlorobenzene	<10.0	<10.0	1	10
Chlorodibromomethane	<10.0	<10.0	1	10
Chloroethane	<50.0	<50.0	1	50
2-Chloroethylvinyl Ether	<10.0	<10.0	1	10
Chloroform	<10.0	<10.0	1	10
Dichlorobromomethane [Bromodichloromethane]	<10.0	<10.0	1	10
1,1-Dichloroethane	<10.0	<10.0	1	10
1,2-Dichloroethane	<10.0	<10.0	1	10
1,1-Dichloroethylene	<10.0	<10.0	1	10
1,2-Dichloropropane	<10.0	<10.0	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10.0	<10.0	1	10
1,2-Trans-Dichloroethylene	<10.0	<10.0	1	10
Ethylbenzene	<10.0	<10.0	1	10
Methyl Bromide	<50.0	<50.0	1	50
Methyl Chloride	<50.0	<50.0	1	50
Methylene Chloride	<10.0	<10.0	1	20
1,1,2,2-Tetrachloroethane	<10.0	<10.0	1	10
Tetrachloroethylene	<10.0	<10.0	1	10
Toluene	<10.0	<10.0	1	10
1,1,1-Trichloroethane	<10.0	<10.0	1	10
1,1,2-Trichloroethane	<10.0	<10.0	1	10
Trichloroethylene	<10.0	<10.0	1	10
Vinyl Chloride	<10.0	<10.0	1	10

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

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	<1.02	<1.02	1	10
2,4-Dichlorophenol	<1.02	<1.02	1	10
2,4-Dimethylphenol	<2.46	<2.46	1	10
4,6-Dinitro-o-Cresol	<8.19	<8.19	1	50
2,4-Dinitrophenol	<9.21	<9.21	1	50
2-Nitrophenol	<1.02	<1.02	1	20
4-Nitrophenol	<1.02	<1.02	1	50
P-Chloro-m-Cresol	<2.46	<2.46	1	10
Pentalchlorophenol	<1.02	<1.02	1	5
Phenol	<1.54	<1.54	1	10
2,4,6-Trichlorophenol	<1.02	<1.02	1	10

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

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	<1.02	<1.02	1	10
Acenaphthylene	<1.02	<1.02	1	10
Anthracene	<1.02	<1.02	1	10
Benzidine	<20.5	<20.5	1	50
Benzo(a)Anthracene	<1.02	<1.02	1	5
Benzo(a)Pyrene	<1.02	<1.02	1	5
3,4-Benzofluoranthene	<1.02	<1.02	1	10
Benzo(ghi)Perylene	<1.02	<1.02	1	20
Benzo(k)Fluoranthene	<1.02	<1.02	1	5
Bis(2-Chloroethoxy)Methane	<1.02	<1.02	1	10
Bis(2-Chloroethyl)Ether	<1.02	<1.02	1	10
Bis(2-Chloroisopropyl)Ether	<1.02	<1.02	1	10
Bis(2-Ethylhexyl)Phthalate	<7.68	<7.68	1	10
4-Bromophenyl Phenyl Ether	<1.02	<1.02	1	10
Butyl benzyl Phthalate	<1.02	<1.02	1	10
2-Chloronaphthalene	<1.02	<1.02	1	10
4-Chlorophenyl phenyl ether	<1.02	<1.02	1	10
Chrysene	<1.02	<1.02	1	5
Dibenzo(a,h)Anthracene	<1.02	<1.02	1	5
1,2-(o)Dichlorobenzene	<1.02	<1.02	1	10
1,3-(m)Dichlorobenzene	<1.02	<1.02	1	10
1,4-(p)Dichlorobenzene	<1.02	<1.02	1	10
3,3-Dichlorobenzidine	<5.00	<5.00	1	5
Diethyl Phthalate	<5.83	<5.83	1	10
Dimethyl Phthalate	<4.91	<4.91	1	10
Di-n-Butyl Phthalate	<7.68	<7.68	1	10
2,4-Dinitrotoluene	<3.58	<3.58	1	10
2,6-Dinitrotoluene	<1.02	<1.02	1	10
Di-n-Octyl Phthalate	<1.02	<1.02	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<1.02	<1.02	1	20
Fluoranthene	<1.02	<1.02	1	10
Fluorene	<1.02	<1.02	1	10
Hexachlorobenzene	<1.02	<1.02	1	5
Hexachlorobutadiene	<1.02	<1.02	1	10

Appendix A
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Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Hexachlorocyclo-pentadiene	<9.21	<9.21	1	10
Hexachloroethane	<1.02	<1.02	1	20
Indeno(1,2,3-cd)pyrene	<1.02	<1.02	1	5
Isophorone	<1.02	<1.02	1	10
Naphthalene	<1.02	<1.02	1	10
Nitrobenzene	<1.02	<1.02	1	10
N-Nitrosodimethylamine	<7.16	<7.16	1	50
N-Nitrosodi-n-Propylamine	<1.02	<1.02	1	20
N-Nitrosodiphenylamine	<1.02	<1.02	1	20
Phenanthrene	<1.02	<1.02	1	10
Pyrene	<1.02	<1.02	1	10
1,2,4-Trichlorobenzene	<1.02	<1.02	1	10

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.010	<0.010	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.0103	<0.0103	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.0103	<0.0103	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.0103	<0.0103	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.0103	<0.0103	1	0.05
Chlordane	<0.0103	<0.0103	1	0.2
4,4-DDT	<0.0103	<0.0103	1	0.02
4,4-DDE	<0.0103	<0.0103	1	0.1
4,4,-DDD	<0.0103	<0.0103	1	0.1
Dieldrin	<0.0103	<0.0103	1	0.02
Endosulfan I (alpha)	<0.010	<0.010	1	0.01
Endosulfan II (beta)	<0.0103	<0.0103	1	0.02
Endosulfan Sulfate	<0.0103	<0.0103	1	0.1
Endrin	<0.0103	<0.0103	1	0.02
Endrin Aldehyde	<0.0103	<0.0103	1	0.1
Heptachlor	<0.010	<0.010	1	0.01
Heptachlor Epoxide	<0.010	<0.010	1	0.01
PCB-1242	<0.200	<0.200	1	0.2
PCB-1254	<0.200	<0.200	1	0.2
PCB-1221	<0.200	<0.200	1	0.2
PCB-1232	<0.200	<0.200	1	0.2
PCB-1248	<0.200	<0.200	1	0.2
PCB-1260	<0.200	<0.200	1	0.2
PCB-1016	<0.200	<0.200	1	0.2
Toxaphene	<0.0103	<0.0103	1	0.3

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

Section 3. Dioxin/Furan Compounds

A. Are any of the following compounds used by a contributing industrial user or significant industrial user that is part of the collection system for the facility that you have reason to believe are present in the influent to the wastewater treatment plant?

Yes ☐ No ☒

If **yes**, identify which compound(s) are potentially sent to the facility.

- ☐ 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.

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

Yes ☐ No ☒

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

If you responded **yes** to either Subsection A **or** B, complete Table 4.0(2)F.

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

Grab ☐ Composite ☐

Date and time sample(s) collected:

Appendix A
WQ0012044001
Harris County Municipal Utility District No. 368

TABLE 4.o(2)F - DIOXIN/FURAN COMPOUNDS

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

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Daniel Bowen
Eastex Environmental Laboratory Inc.
PO BOX 1089
Coldspring, Texas 77331

Generated 4/3/2025 5:00:22 PM

JOB DESCRIPTION

HC MUD 368 LL Mercury Permmitt Resample Effluent
PO 033125G

JOB NUMBER

860-97048-1

Eurofins Houston

Job Notes

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

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

Authorization



Generated
4/3/2025 5:00:22 PM

Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

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Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmitt Resample
Effluent

Job ID: 860-97048-1
SDG: PO 033125G

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☆	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Eastex Environmental Laboratory Inc.
Project: HC MUD 368 LL Mercury Permit Resample Effluent

Job ID: 860-97048-1

Job ID: 860-97048-1

Eurofins Houston

Job Narrative 860-97048-1

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

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

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

Receipt

The samples were received on 3/31/2025 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Metals

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

Eurofins Houston

Detection Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-97048-1
SDG: PO 033125G

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Lab Sample ID: 860-97048-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Mercury	0.00917		0.000500	0.000200	ug/L			1	1631E	Total/NA

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent LL Blank

Lab Sample ID: 860-97048-2

No Detections.

Client Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-97048-1
SDG: PO 033125G

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample

Lab Sample ID: 860-97048-1

Effluent

Date Collected: 03/27/25 14:00

Matrix: Water

Date Received: 03/31/25 15:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00917		0.000500	0.000200	ug/L			04/03/25 12:13	1

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample

Lab Sample ID: 860-97048-2

Effluent LL Blank

Date Collected: 03/27/25 14:00

Matrix: Water

Date Received: 03/31/25 15:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L			04/03/25 12:18	1

QC Sample Results

Client: Eastex Environmental Laboratory Inc.
 Project/Site: HC MUD 368 LL Mercury Permmitt Resample
 Effluent

Job ID: 860-97048-1
 SDG: PO 033125G

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

Lab Sample ID: MB 192-32096/21

Matrix: Water

Analysis Batch: 32096

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000200	U	0.000500	0.000200	ug/L			04/03/25 11:17	1

Lab Sample ID: MB 192-32096/22

Matrix: Water

Analysis Batch: 32096

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000200	U	0.000500	0.000200	ug/L			04/03/25 11:22	1

Lab Sample ID: MB 192-32096/23

Matrix: Water

Analysis Batch: 32096

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000200	U	0.000500	0.000200	ug/L			04/03/25 11:27	1

Lab Sample ID: LCS 192-32096/26

Matrix: Water

Analysis Batch: 32096

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits	
		Result	Qualifier					
Mercury	0.00500	0.005136		ug/L		103		

Lab Sample ID: 860-97046-A-2 MS

Matrix: Water

Analysis Batch: 32096

Client Sample ID: Matrix Spike
 Prep Type: Total/NA

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits	
	Result	Qualifier		Result	Qualifier					
Mercury	<0.000200	U	0.00500	0.005168		ug/L		103		

Lab Sample ID: 860-97046-A-2 MSD

Matrix: Water

Analysis Batch: 32096

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Mercury	<0.000200	U	0.00500	0.004944		ug/L		99	71 - 125	4	24

QC Association Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-97048-1
SDG: PO 033125G

Metals

Analysis Batch: 32096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-97048-1	HC MUD 368 LL Mercury Permmmit Resample Effluent	Total/NA	Water	1631E	
860-97048-2	HC MUD 368 LL Mercury Permmmit Resample Effluent L	Total/NA	Water	1631E	
MB 192-32096/21	Method Blank	Total/NA	Water	1631E	
MB 192-32096/22	Method Blank	Total/NA	Water	1631E	
MB 192-32096/23	Method Blank	Total/NA	Water	1631E	
LCS 192-32096/26	Lab Control Sample	Total/NA	Water	1631E	
860-97046-A-2 MS	Matrix Spike	Total/NA	Water	1631E	
860-97046-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	

Lab Chronicle

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmitt Resample
Effluent

Job ID: 860-97048-1
SDG: PO 033125G

Client Sample ID: HC MUD 368 LL Mercury Permmitt Resample

Lab Sample ID: 860-97048-1

Effluent

Date Collected: 03/27/25 14:00

Matrix: Water

Date Received: 03/31/25 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	32096	04/03/25 12:13	JEP	EET ARK

Client Sample ID: HC MUD 368 LL Mercury Permmitt Resample

Lab Sample ID: 860-97048-2

Effluent LL Blank

Date Collected: 03/27/25 14:00

Matrix: Water

Date Received: 03/31/25 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	32096	04/03/25 12:18	JEP	EET ARK

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permit Resample
Effluent

Job ID: 860-97048-1
SDG: PO 033125G

Laboratory: Eurofins Arkansas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-00889	03-02-26
Florida	NELAP	E871188	06-30-25
Iowa	State	436	10-02-25
Louisiana (All)	NELAP	01946	06-30-25
Oklahoma	State	8709	08-31-25
Oregon	NELAP	4192	07-12-25
Texas	NELAP	T104704575	05-31-25
Washington	State	C1087	07-13-25

Method Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-97048-1
SDG: PO 033125G

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET ARK

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Sample Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-97048-1
SDG: PO 033125G

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-97048-1	HC MUD 368 LL Mercury Permmmit Resample Effluent	Water	03/27/25 14:00	03/31/25 15:25
860-97048-2	HC MUD 368 LL Mercury Permmmit Resample Effluent LL Blank	Water	03/27/25 14:00	03/31/25 15:25



SUBCONTRACT ORDER

Sending Laboratory:

Eastex Environmental Laboratory Coldspring
PO Box 1089
Coldspring, TX 77331

Phone 936-653-3249
eastexlab@eastex.net
Project Manager Daniel Bowen
dbowen@eastexlabs.com

Subcontracted Laboratory:

Eurofins Xenco LLC

4147 Greenbriar Dr
Stafford, TX 77477

Phone 713-690-4444
Fax 713-690-5646

PO 033125G

Requested Turnaround 3 Days

Sample ID: HC MUD 368 LL Mercury Permmit Resample Effluent
03/27/2025 14:00

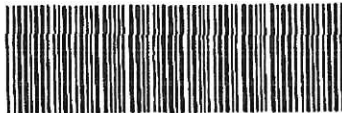
Sample No: 5130608-01 Water Sampled:

Mercury LL Blank

Mercury LL

Containers Supplied 5

Special Instructions 3 DAY TAT



860-97048 Chain of Custody

Please Composite

☐ See Attached

Received Iced Y/N Temp 21

Harris County MUD 368

[Signature]
Released By

3/31/25 1800
Date & Time

[Signature]
Received By

3-31-25 1525
Date & Time

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-97048-1

SDG Number: PO 033125G

Login Number: 97048

List Source: Eurofins Houston

List Number: 1

Creator: Jimenez, Nicanor

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-97048-1

SDG Number: PO 033125G

Login Number: 97048

List Number: 2

Creator: Vang, Matthew

List Source: Eurofins Arkansas

List Creation: 04/02/25 10:26 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Daniel Bowen
Eastex Environmental Laboratory Inc.
PO BOX 1089
Coldspring, Texas 77331

Generated 4/3/2025 5:01:35 PM

JOB DESCRIPTION

HC MUD 368 LL Mercury Permmitt Resample Effluent
PO 033125F

JOB NUMBER

860-97046-1

Eurofins Houston

Job Notes

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

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

Authorization



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4/3/2025 5:01:35 PM

Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

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Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmit Resample
Effluent

Job ID: 860-97046-1
SDG: PO 033125F

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☆	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Eastex Environmental Laboratory Inc.
Project: HC MUD 368 LL Mercury Permit Resample Effluent

Job ID: 860-97046-1

Job ID: 860-97046-1

Eurofins Houston

Job Narrative 860-97046-1

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

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

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

Receipt

The samples were received on 3/31/2025 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Metals

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

Eurofins Houston

Detection Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-97046-1
SDG: PO 033125F

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Lab Sample ID: 860-97046-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00792		0.000500	0.000200	ug/L	1		1631E	Total/NA

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent LL Blank

Lab Sample ID: 860-97046-2

No Detections.

Client Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmitt Resample
Effluent

Job ID: 860-97046-1
SDG: PO 033125F

Client Sample ID: HC MUD 368 LL Mercury Permmitt Resample

Lab Sample ID: 860-97046-1

Effluent

Date Collected: 03/25/25 20:00

Matrix: Water

Date Received: 03/31/25 15:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00792		0.000500	0.000200	ug/L			04/03/25 12:08	1

Client Sample ID: HC MUD 368 LL Mercury Permmitt Resample

Lab Sample ID: 860-97046-2

Effluent LL Blank

Date Collected: 03/25/25 20:00

Matrix: Water

Date Received: 03/31/25 15:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L			04/03/25 11:49	1

QC Sample Results

Client: Eastex Environmental Laboratory Inc.
 Project/Site: HC MUD 368 LL Mercury Permmitt Resample
 Effluent

Job ID: 860-97046-1
 SDG: PO 033125F

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

Lab Sample ID: MB 192-32096/21
 Matrix: Water
 Analysis Batch: 32096

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000200	U	0.000500	0.000200	ug/L			04/03/25 11:17	1

Lab Sample ID: MB 192-32096/22
 Matrix: Water
 Analysis Batch: 32096

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000200	U	0.000500	0.000200	ug/L			04/03/25 11:22	1

Lab Sample ID: MB 192-32096/23
 Matrix: Water
 Analysis Batch: 32096

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000200	U	0.000500	0.000200	ug/L			04/03/25 11:27	1

Lab Sample ID: LCS 192-32096/26
 Matrix: Water
 Analysis Batch: 32096

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits	
		Result	Qualifier					
Mercury	0.00500	0.005136		ug/L		103	77 - 123	

Lab Sample ID: 860-97046-2 MS

Client Sample ID: HC MUD 368 LL Mercury Permmitt Resample Effluent LL
 Blank
 Prep Type: Total/NA

Matrix: Water
 Analysis Batch: 32096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits	
				Result	Qualifier					
Mercury	<0.000200	U	0.00500	0.005168		ug/L		103	71 - 125	

Lab Sample ID: 860-97046-2 MSD

Client Sample ID: HC MUD 368 LL Mercury Permmitt Resample Effluent LL
 Blank
 Prep Type: Total/NA

Matrix: Water
 Analysis Batch: 32096

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
Mercury	<0.000200	U	0.00500	0.004944		ug/L		99	71 - 125	4	24

QC Association Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permit Resample
Effluent

Job ID: 860-97046-1
SDG: PO 033125F

Metals

Analysis Batch: 32096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-97046-1	HC MUD 368 LL Mercury Permit Resample Effluent	Total/NA	Water	1631E	
860-97046-2	HC MUD 368 LL Mercury Permit Resample Effluent L	Total/NA	Water	1631E	
MB 192-32096/21	Method Blank	Total/NA	Water	1631E	
MB 192-32096/22	Method Blank	Total/NA	Water	1631E	
MB 192-32096/23	Method Blank	Total/NA	Water	1631E	
LCS 192-32096/26	Lab Control Sample	Total/NA	Water	1631E	
860-97046-2 MS	HC MUD 368 LL Mercury Permit Resample Effluent L	Total/NA	Water	1631E	
860-97046-2 MSD	HC MUD 368 LL Mercury Permit Resample Effluent L	Total/NA	Water	1631E	

Lab Chronicle

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permit Resample
Effluent

Job ID: 860-97046-1
SDG: PO 033125F

Client Sample ID: HC MUD 368 LL Mercury Permit Resample

Lab Sample ID: 860-97046-1

Effluent

Date Collected: 03/25/25 20:00

Matrix: Water

Date Received: 03/31/25 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	32096	04/03/25 12:08	JEP	EET ARK

Client Sample ID: HC MUD 368 LL Mercury Permit Resample

Lab Sample ID: 860-97046-2

Effluent LL Blank

Date Collected: 03/25/25 20:00

Matrix: Water

Date Received: 03/31/25 15:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	32096	04/03/25 11:49	JEP	EET ARK

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-97046-1
SDG: PO 033125F

Laboratory: Eurofins Arkansas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-00889	03-02-26
Florida	NELAP	E871188	06-30-25
Iowa	State	436	10-02-25
Louisiana (All)	NELAP	01946	06-30-25
Oklahoma	State	8709	08-31-25
Oregon	NELAP	4192	07-12-25
Texas	NELAP	T104704575	05-31-25
Washington	State	C1087	07-13-25

Method Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmit Resample
Effluent

Job ID: 860-97046-1
SDG: PO 033125F

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET ARK

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Sample Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-97046-1
SDG: PO 033125F

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-97046-1	HC MUD 368 LL Mercury Permmmit Resample Effluent	Water	03/25/25 20:00	03/31/25 15:25
860-97046-2	HC MUD 368 LL Mercury Permmmit Resample Effluent LL Blank	Water	03/25/25 20:00	03/31/25 15:25



SUBCONTRACT ORDER

Sending Laboratory:

Eastex Environmental Laboratory Coldspring
PO Box 1089
Coldspring, TX 77331

Phone 936-653 3249
eastexlab@eastex.net
Project Manager Daniel Bowen
dbowen@eastexlabs.com

Subcontracted Laboratory:

Eurofins Xenco LLC

4147 Greenbriar Dr
Stafford, TX 77477

Phone 713-690-4444
Fax 713-690 5646

PO 033125F

Requested Turnaround 3 Days

Sample ID: HC MUD 368 LL Mercury Permit Resample Effluent
03/25/2025 20:00

Sample No: 5130607-01 Water Sampled.

Mercury LL Blank

Mercury LL

Containers Supplied 5

Special Instructions. 3 DAY TAT

860-97046 Chain of Custody



Please Composite

☐ See Attached

Received Iced Y/N Temp 2.1

Harris County MUD 368

Released By

3/21/25 1800
Date & Time

Numer
Received By

3 31-25 1525
Date & Time

Chain of Custody Record



Client Information (Sub Contract Lab)				Sampler: N/A Lab PM: Garza, Sylvia Phone: N/A E-Mail: Sylvia Garza@et.eurofinsus.com Shipping/Receiving Company: Eurofins Environment Testing South Cent Address: 8600 Kanis Rd, City: Little Rock State, Zip: AR, 72204 Phone: 501-224-5060(Tel) 501-224-5075(Fax) Email: N/A Project Name: HC MUD 368 LL Mercury Permit Resample Effluent Site: N/A		Carrier Tracking No(s): N/A State of Origin: Texas Job #: 860-97046-1 Preservation Codes:		COC No: 860-208762.1 Page 1 of 1	
Due Date Requested: 4/2/2025 TAT Requested (days): N/A				Analysis Requested		Total Number of Containers			
PO #: N/A WO #: N/A Project #: 86000838 SSOW#: N/A				Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 1631E, NP/LL Mercury		Special Instructions/Note:			
Sample Identification - Client ID (Lab ID)				Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=on-site/Off-site) Preservation Code		Special Instructions/Note:			
HC MUD 368 LL Mercury Permit Resample Effluent (860-97046)				3/25/25 20:00 Central G Water		4			
HC MUD 368 LL Mercury Permit Resample Effluent LL Blank (8)				3/25/25 20:00 Central G Water		1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC									
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by:				Date:		Method of Shipment:			
Relinquished by:				Date/Time: 4-1-25 1700		Date/Time: 4-1-25 0433			
Relinquished by:				Date/Time:		Date/Time:			
Relinquished by:				Date/Time:		Date/Time:			
Custody Seals Intact. Δ Yes Δ No				Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks			

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-97046-1

SDG Number: PO 033125F

Login Number: 97046

List Source: Eurofins Houston

List Number: 1

Creator: Jimenez, Nicanor

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-97046-1

SDG Number: PO 033125F

Login Number: 97046

List Number: 2

Creator: Vang, Matthew

List Source: Eurofins Arkansas

List Creation: 04/02/25 10:26 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



28 March 2025

Harris County Municipal District 368
Harris County MUD 368
19744 1/2 Logan Briar Dr
Tomball, Tx 77375

RE: HC MUD 368 LL Mercury Permmit Resample

Enclosed are the results of analyses for samples received by the laboratory on 03/20/25 18:20, with Lab ID Number 5122020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Bowen
Chief Operations Officer

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Daniel Bowen
Eastex Environmental Laboratory Inc.
PO BOX 1089
Coldspring, Texas 77331

Generated 3/27/2025 4:25:07 PM

JOB DESCRIPTION

HC MUD 368 LL Mercury Permmitt Resample Effluent
PO 032425C

JOB NUMBER

860-96494-1


Eurofins Houston

Job Notes

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

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

Authorization



Generated
3/27/2025 4:25:07 PM

Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

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Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permitt Resample
Effluent

Job ID: 860-96494-1
SDG: PO 032425C

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Eastex Environmental Laboratory Inc.
Project: HC MUD 368 LL Mercury Permit Resample Effluent

Job ID: 860-96494-1

Job ID: 860-96494-1

Eurofins Houston

Job Narrative 860-96494-1

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

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

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

Receipt

The samples were received on 3/24/2025 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Metals

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

Eurofins Houston

Detection Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-96494-1
SDG: PO 032425C

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Lab Sample ID: 860-96494-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00821		0.000500	0.000200	ug/L	1		1631E	Total/NA

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent LL Blank

Lab Sample ID: 860-96494-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-96494-1
SDG: PO 032425C

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Lab Sample ID: 860-96494-1

Date Collected: 03/19/25 14:00
Date Received: 03/24/25 09:50

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00821		0.000500	0.000200	ug/L			03/27/25 15:17	1

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent LL Blank

Lab Sample ID: 860-96494-2

Date Collected: 03/19/25 14:00
Date Received: 03/24/25 09:50

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L			03/27/25 15:22	1

QC Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmitt Resample
Effluent

Job ID: 860-96494-1
SDG: PO 032425C

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

Lab Sample ID: MB 192-31731/3
Matrix: Water
Analysis Batch: 31731

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L	-		03/27/25 14:53	1

Lab Sample ID: MB 192-31731/4
Matrix: Water
Analysis Batch: 31731

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L	-		03/27/25 14:37	1

Lab Sample ID: MB 192-31731/5
Matrix: Water
Analysis Batch: 31731

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L	-		03/27/25 14:42	1

Lab Sample ID: LCS 192-31731/6
Matrix: Water
Analysis Batch: 31731

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.005153		ug/L	-	103	77 - 123

Lab Sample ID: 860-96493-A-2 MS
Matrix: Water
Analysis Batch: 31731

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00143		0.00500	0.004964		ug/L	-	71	71 - 125

Lab Sample ID: 860-96493-A-2 MSD
Matrix: Water
Analysis Batch: 31731

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00143		0.00500	0.005523		ug/L	-	82	71 - 125	11	24

QC Association Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmitt Resample
Effluent

Job ID: 860-96494-1
SDG: PO 032425C

Metals

Analysis Batch: 31731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-96494-1	HC MUD 368 LL Mercury Permmitt Resample Effl	Total/NA	Water	1631E	
860-96494-2	HC MUD 368 LL Mercury Permmitt Resample Effl	Total/NA	Water	1631E	
MB 192-31731/3	Method Blank	Total/NA	Water	1631E	
MB 192-31731/4	Method Blank	Total/NA	Water	1631E	
MB 192-31731/5	Method Blank	Total/NA	Water	1631E	
LCS 192-31731/6	Lab Control Sample	Total/NA	Water	1631E	
860-96493-A-2 MS	Matrix Spike	Total/NA	Water	1631E	
860-96493-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	

Lab Chronicle

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permit Resample
Effluent

Job ID: 860-96494-1
SDG: PO 032425C

Client Sample ID: HC MUD 368 LL Mercury Permit Resample
Effluent

Lab Sample ID: 860-96494-1

Date Collected: 03/19/25 14:00
Date Received: 03/24/25 09:50

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	31731	03/27/25 15:17	JEP	EET ARK

Client Sample ID: HC MUD 368 LL Mercury Permit Resample
Effluent LL Blank

Lab Sample ID: 860-96494-2

Date Collected: 03/19/25 14:00
Date Received: 03/24/25 09:50

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	31731	03/27/25 15:22	JEP	EET ARK

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permit Resample
Effluent

Job ID: 860-96494-1
SDG: PO 032425C

Laboratory: Eurofins Arkansas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-00889	03-02-26
Florida	NELAP	E871188	06-30-25
Iowa	State	436	10-02-25
Louisiana (All)	NELAP	01946	06-30-25
Oklahoma	State	8709	08-31-25
Oregon	NELAP	4192	07-12-25
Texas	NELAP	T104704575	05-31-25
Washington	State	C1087	07-13-25

Method Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmitt Resample
Effluent

Job ID: 860-96494-1
SDG: PO 032425C

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET ARK

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204; TEL (501)224-5060

Sample Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permit Resample
Effluent

Job ID: 860-96494-1
SxG:PO8r82c25J

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-96494-1	HC MUD 368 LL Mercury Permit Resample Effluent	Water	03/19/25 14:00	03/24/25 09:50
860-96494-2	HC MUD 368 LL Mercury Permit Resample Effluent LL Blank	Water	03/19/25 14:00	03/24/25 09:50



SUBCONTRACT ORDER

Sending Laboratory:

Eastex Environmental Laboratory Coldspring
PO Box 1089
Coldspring, TX 77331

Phone 936-653 3249
eastexlab@eastex.net
Project Manager Daniel Bowen
dbowen@eastexlabs.com

Subcontracted Laboratory:

Eurofins Xenco LLC

4147 Greenbriar Dr
Stafford, TX 77477

Phone 713-690-4444
Fax 713-690 5646

DB

PO 032425C

Requested Turnaround 3 Days

Sample ID: HC MUD 368 LL Mercury Permmitt Resample Effluent
03/19/2025 14:00

Sample No: 5122020-01 Water Sampled:

Mercury LL Blank

Mercury LL

Containers Supplied 5

Special Instructions. 3 DAY TAT



860-96494 Chain of Custody

Please Composite

☐ See Attached

Received Iced Y/N

Temp 1.7

Harris County MUD 368

[Signature]
Released By

3-24-25 737
Date & Time

[Signature]
Received By

3-24-25 950
Date & Time

sco_2023SubcontractOrder rpt 10062023

Page 1 of 1

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving		Garza, Sylvia	Garza, Sylvia	N/A	860-206507.1
Company		Phone	Email	State of Origin	Page
Eurofins Environment Testing South Center		N/A	Sylvia.Garza@eurofins.com	Texas	Page 1 of 1
Address:		Accreditations Required (See note)		Job #	Preservation Codes:
8600 Kanis Rd.		NELAP - Texas		860-98494-1	
City:		Analysis Requested			
Little Rock					
State, Zip					
AR, 72204					
Phone:					
501-224-5060(Tel) 501-224-5075(Fax)					
Email:					
N/A					
Project Name:					
HC MUD 368 LL Mercury Permit Resample Effluent					
Site					
N/A					
SSOW#					
86000838					
Project #					
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Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-96494-1

SDG Number: PO 032425C

Login Number: 96494

List Number: 1

List Source: Eurofins Houston

Creator: Jimenez, Nicanor

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-96494-1

SDG Number: PO 032425C

Login Number: 96494

List Number: 2

Creator: Stephens, Ren

List Source: Eurofins Arkansas

List Creation: 03/25/25 11:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4"$).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 • Coldspring, TX 77331 P.O. Box 631375 • Nacogdoches, TX 75963-1375
(936) 653-3249 • (800) 525-0508 (936) 569-8879 • FAX (936) 569-8951
www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

Company: Eagle management
Address: _____
Attn: DN file
Phone#: _____
Email: _____
P.O. #: _____
Sampler's Name (print): JP pulled
Sampler's Signature: JP
Project Name: HC MUD 3108

INVOICE TO:

Company: _____
Address: SAME
Attn: _____
Phone#: _____

REMARKS:

mercury vials

INSTRUCTIONS:

C= Composite G= Grab
DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT= Other
Container Size: 1=Gallon 2=1/2 Gallon 3=Quart/Liter 4=500mL 5=250mL
6=125mL (4oz) 7=60mL (2 oz) 8=40mL Vial 9=Other
Type: P= Plastic G= Glass T= Teflon S= Sterile
Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z= Zn Acetate
ST=Sodium Thiosulfate H=HCL O= Other

Field Data

Containers

Matrix C or G DO pH Cl2 Flow Temp # Size Type Pres

Time
5122020 Effluent 3-19 800 WW C _____ 5 8 G _____
3-19 1000 WW C _____
3-19 1200 WW C _____
3-19 1400 WW C _____

ANALYSIS REQUESTED

Mercury LL + Mercury Blank

Relinquished By: JP pulled Received By: debtvmow Date: 3/20/2025 Time: 1700

Received By:

Date: _____ Time: _____

Relinquished By: debtvmow Received By: debtvmow Date: 3/20/2025 Time: 1820

Date: _____ Time: _____

LAB USE ONLY
Alternate Check In: _____

Sample Condition Acceptable: (YES) / NO (YES) / NO
Temp C: 1.9 *Therm ID: 15 Logged In By: de

Date: _____

Time: _____

Received Iced: (YES) / NO (YES) / NO
Received Iced: (YES) / NO (YES) / NO
Received Iced: (YES) / NO (YES) / NO

*Thermometer has 0.0 factor and recorded temperature is actual temperature

Date: 3-20-25 Time: 1913



28 March 2025

Harris County Municipal District 368
Harris County MUD 368
19744 1/2 Logan Briar Dr
Tomball, Tx 77375

RE: HC MUD 368 LL Mercury Permmit Resample

Enclosed are the results of analyses for samples received by the laboratory on 03/20/25 18:20, with Lab ID Number 5120013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Bowen
Chief Operations Officer

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Daniel Bowen
Eastex Environmental Laboratory Inc.
PO BOX 1089
Coldspring, Texas 77331

Generated 3/27/2025 4:23:50 PM

JOB DESCRIPTION

HC MUD 368 LL Mercury Permmitt Resample Effluent
PO 032425B

JOB NUMBER

860-96493-1

Eurofins Houston

Job Notes

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

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

Authorization



Generated
3/27/2025 4:23:50 PM

Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

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Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permit Resample
Effluent

Job ID: 860-96493-1
SDG: PO 032425B

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☉	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Eastex Environmental Laboratory Inc.
Project: HC MUD 368 LL Mercury Permit Resample Effluent

Job ID: 860-96493-1

Job ID: 860-96493-1

Eurofins Houston

Job Narrative 860-96493-1

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

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

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

Receipt

The samples were received on 3/24/2025 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Metals

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

Eurofins Houston

Detection Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-96493-1
SDG: PO 032425B

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Lab Sample ID: 860-96493-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0324		0.00250	0.00100	ug/L	5		1631E	Total/NA

Client Sample ID: HC MUD 368 LL Mercury Permmmit Resample
Effluent LL Blank

Lab Sample ID: 860-96493-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00143		0.000500	0.000200	ug/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permitt Resample
Effluent

Job ID: 860-96493-1
SDG: PO 032425B

Client Sample ID: HC MUD 368 LL Mercury Permitt Resample

Lab Sample ID: 860-96493-1

Effluent

Date Collected: 03/17/25 13:30

Matrix: Water

Date Received: 03/24/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0324		0.00250	0.00100	ug/L			03/27/25 15:36	5

Client Sample ID: HC MUD 368 LL Mercury Permitt Resample

Lab Sample ID: 860-96493-2

Effluent LL Blank

Date Collected: 03/17/25 13:30

Matrix: Water

Date Received: 03/24/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00143		0.000500	0.000200	ug/L			03/27/25 14:58	1

QC Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmit Resample
Effluent

Job ID: 860-96493-1
SDG: PO 032425B

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

Lab Sample ID: MB 192-31731/3
Matrix: Water
Analysis Batch: 31731

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L			03/27/25 14:53	1

Lab Sample ID: MB 192-31731/4
Matrix: Water
Analysis Batch: 31731

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L			03/27/25 14:37	1

Lab Sample ID: MB 192-31731/5
Matrix: Water
Analysis Batch: 31731

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L			03/27/25 14:42	1

Lab Sample ID: LCS 192-31731/6
Matrix: Water
Analysis Batch: 31731

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.005153		ug/L		103	77 - 123

Lab Sample ID: 860-96493-2 MS

Client Sample ID: HC MUD 368 LL Mercury Permmit Resample Effluent LL
Blank

Matrix: Water
Analysis Batch: 31731

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00143		0.00500	0.004964		ug/L		71	71 - 125

Lab Sample ID: 860-96493-2 MSD

Client Sample ID: HC MUD 368 LL Mercury Permmit Resample Effluent LL
Blank

Matrix: Water
Analysis Batch: 31731

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00143		0.00500	0.005523		ug/L		82	71 - 125	11	24

QC Association Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permit Resample
Effluent

Job ID: 860-96493-1
SDG: PO 032425B

Metals

Analysis Batch: 31731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-96493-1	HC MUD 368 LL Mercury Permit Resample Effl	Total/NA	Water	1631E	
860-96493-2	HC MUD 368 LL Mercury Permit Resample Effl	Total/NA	Water	1631E	
MB 192-31731/3	Method Blank	Total/NA	Water	1631E	
MB 192-31731/4	Method Blank	Total/NA	Water	1631E	
MB 192-31731/5	Method Blank	Total/NA	Water	1631E	
LCS 192-31731/6	Lab Control Sample	Total/NA	Water	1631E	
860-96493-2 MS	HC MUD 368 LL Mercury Permit Resample Effl	Total/NA	Water	1631E	
860-96493-2 MSD	HC MUD 368 LL Mercury Permit Resample Effl	Total/NA	Water	1631E	

Lab Chronicle

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmitt Resample
Effluent

Job ID: 860-96493-1
SDG: PO 032425B

Client Sample ID: HC MUD 368 LL Mercury Permmitt Resample
Effluent

Lab Sample ID: 860-96493-1

Date Collected: 03/17/25 13:30

Matrix: Water

Date Received: 03/24/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		5	5 mL	5 mL	31731	03/27/25 15:36	JEP	EET ARK

Client Sample ID: HC MUD 368 LL Mercury Permmitt Resample
Effluent LL Blank

Lab Sample ID: 860-96493-2

Date Collected: 03/17/25 13:30

Matrix: Water

Date Received: 03/24/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	31731	03/27/25 14:58	JEP	EET ARK

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permit Resample
Effluent

Job ID: 860-96493-1
SDG: PO 032425B

Laboratory: Eurofins Arkansas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-00889	03-02-26
Florida	NELAP	E871188	06-30-25
Iowa	State	436	10-02-25
Louisiana (All)	NELAP	01946	06-30-25
Oklahoma	State	8709	08-31-25
Oregon	NELAP	4192	07-12-25
Texas	NELAP	T104704575	05-31-25
Washington	State	C1087	07-13-25

Method Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmmit Resample
Effluent

Job ID: 860-96493-1
SDG: PO 032425B

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET ARK

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Sample Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: HC MUD 368 LL Mercury Permmitt Resample
Effluent

Job ID: 860-96493-1
Ss G:PO8 c2y25B

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-96493-1	HC MUD 368 LL Mercury Permmitt Resample Effluent	Water	03/17/25 13:30	03/24/25 09:50
860-96493-2	HC MUD 368 LL Mercury Permmitt Resample Effluent LL Blank	Water	03/17/25 13:30	03/24/25 09:50



SUBCONTRACT ORDER

Sending Laboratory:

Eastex Environmental Laboratory Coldspring
PO Box 1089
Coldspring, TX 77331

Phone 936-653-3249
eastexlab@eastex.net
Project Manager Daniel Bowen
dbowen@eastexlabs.com

Subcontracted Laboratory:

Eurofins Xenco LLC

4147 Greenbriar Dr
Stafford, TX 77477

Phone 713-690-4444
Fax 713-690-5646

Q0

PO 032425B

Requested Turnaround 3 Days

Sample ID: HC MUD 368 LL Mercury Permmit Resample Effluent
03/17/2025 13:30

Sample No: 5120013-01 Water Sampled.

Mercury LL Blank

Mercury LL

Containers Supplied 5

Special Instructions. 3 DAY TAT



860-98493 Chain of Custody

Please Composite

☐ See Attached

Received Iced Y/N

Temp 1.7

Harris County MUD 368

Released By [Signature] 3-24-25 737
Date & Time

Received By [Signature] 3-24-25 950
Date & Time

sce_2023SubcontractOrder rpt 10062023

Page 1 of 1

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-96493-1

SDG Number: PO 032425B

Login Number: 96493

List Number: 1

List Source: Eurofins Houston

Creator: Jimenez, Nicanor

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-96493-1

SDG Number: PO 032425B

Login Number: 96493

List Number: 2

Creator: Stephens, Ren

List Source: Eurofins Arkansas

List Creation: 03/25/25 11:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 • Colldspring, TX 77331

P.O. Box 631375 • Nacogdoches, TX 75963-1375

(936) 653-3249 • (800) 525-0508

(936) 569-8879 • FAX (936) 569-8951

www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

Company: Eagle Management

Address:

Address: SAME

Attn:

Attn:

Phone#:

Phone#:

Email:

INSTRUCTIONS:

P.O. #:

C or G:

Matrix:

Container Size:

Sampler's Name (print): OP pulled

Sampler's Signature: PIU

Project Name: HLC MUD 308

Work Order ID

Sample ID

Date

Time

Matrix

C or G

DO

pH

Cl2

Flow

Temp

#

Size

Type

Pres

Containers

Field Data

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

INVOICE TO:

Company: Eagle Management

Address: SAME

Attn:

Phone#:

Email:

P.O. #:

INSTRUCTIONS:

C or G:

Matrix:

Container Size:

Type:

Preservatives:

Field Data

Time

Date

Time

Date

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Remarks: Mercury vials

ANALYSIS REQUESTED

Mercury II + Mercury Blank

Time

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LAB USE ONLY

Relinquished By: OP pulled

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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 CN600737621, RN102080553, Rating Year 2022 which includes Compliance History (CH) components from September 1, 2017, through August 31, 2022.

Customer, Respondent, or Owner/Operator:	CN600737621, Harris County Municipal Utility District 368	Classification:	SATISFACTORY	Rating:	0.29
Regulated Entity:	RN102080553, THREE LAKES MUD 1 WWTP	Classification:	SATISFACTORY	Rating:	0.29
Complexity Points:	8	Repeat Violator:	NO		
CH Group:	08 - Sewage Treatment Facilities				
Location:	19744 1/2 LOGAN BRIAR DR TOMBALL, TX 77375-1785, HARRIS COUNTY				
TCEQ Region:	REGION 12 - HOUSTON				
ID Number(s):					
WASTEWATER PERMIT	WQ0012044001	WASTEWATER EPA ID	TX0078433		
Compliance History Period:	September 01, 2017 to August 31, 2022	Rating Year:	2022	Rating Date:	09/01/2022
Date Compliance History Report Prepared:	April 27, 2023				
Agency Decision Requiring Compliance History:	Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.				
Component Period Selected:	February 06, 2018 to April 27, 2023				
TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.					
Name:	WH		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	February 13, 2018	(1487770)
Item 2	March 12, 2018	(1491453)
Item 3	April 17, 2018	(1494703)
Item 4	May 11, 2018	(1501653)
Item 5	June 13, 2018	(1508743)
Item 6	July 11, 2018	(1515073)
Item 7	August 30, 2018	(1521124)
Item 8	October 05, 2018	(1534648)
Item 9	November 09, 2018	(1542482)
Item 10	January 04, 2019	(1562811)
Item 11	March 08, 2019	(1562810)
Item 12	April 10, 2019	(1572860)
Item 13	May 08, 2019	(1585329)

Page 2

I. Participation in a voluntary pollution reduction program:

N/A

J. Early compliance:

N/A

Sites Outside of Texas:

N/A

DMR DATA

WQ0012044001 - HARRIS COUNTY MUD NO. 368

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0078433	2/28/2018	001A	Aluminum, total [as Al]	0.03	0.03	0.13
TX0078433	3/31/2018	001A	Aluminum, total [as Al]	0.03	0.03	0.147
TX0078433	4/30/2018	001A	Aluminum, total [as Al]	0.03	0.03	0.15
TX0078433	5/31/2018	001A	Aluminum, total [as Al]	0.03	0.03	0.155
TX0078433	6/30/2018	001A	Aluminum, total [as Al]	0.03	0.03	0.141
TX0078433	7/31/2018	001A	Aluminum, total [as Al]	0.017	0.0206	0.074
TX0078433	8/31/2018	001A	Aluminum, total [as Al]	0.013	0.022	0.072
TX0078433	9/30/2018	001A	Aluminum, total [as Al]	0.0187	0.0222	0.107
TX0078433	10/31/2018	001A	Aluminum, total [as Al]	0.02	0.03	0.11
TX0078433	11/30/2018	001A	Aluminum, total [as Al]	0.0129	0.0218	0.07
TX0078433	12/31/2018	001A	Aluminum, total [as Al]	0.014	0.03	0.149
TX0078433	1/31/2019	001A	Aluminum, total [as Al]	0.0348	0.1	0.161
TX0078433	2/28/2019	001A	Aluminum, total [as Al]	0.019	0.027	0.133
TX0078433	3/31/2019	001A	Aluminum, total [as Al]	0.013	0.0177	0.083
TX0078433	4/30/2019	001A	Aluminum, total [as Al]	0.026	0.0367	0.156
TX0078433	5/31/2019	001A	Aluminum, total [as Al]	0.014	0.021	0.107
TX0078433	6/30/2019	001A	Aluminum, total [as Al]	0.016	0.0203	0.112
TX0078433	7/31/2019	001A	Aluminum, total [as Al]	0.0226	0.0369	0.137
TX0078433	8/31/2019	001A	Aluminum, total [as Al]	0.023	0.031	0.1
TX0078433	9/30/2019	001A	Aluminum, total [as Al]	0.021	0.025	0.148
TX0078433	10/31/2019	001A	Aluminum, total [as Al]	0.018	0.0325	0.097
TX0078433	11/30/2019	001A	Aluminum, total [as Al]	0.024	0.041	0.144
TX0078433	12/31/2019	001A	Aluminum, total [as Al]	0.022	0.041	0.128
TX0078433	1/31/2020	001A	Aluminum, total [as Al]	0.016	0.028	0.096
TX0078433	2/29/2020	001A	Aluminum, total [as Al]	0.013	0.0188	0.07
TX0078433	3/31/2020	001A	Aluminum, total [as Al]	0.028	0.0596	0.159
TX0078433	4/30/2020	001A	Aluminum, total [as Al]	0.013	0.018	0.091
TX0078433	5/31/2020	001A	Aluminum, total [as Al]	0.017	0.0273	0.128
TX0078433	6/30/2020	001A	Aluminum, total [as Al]	0.011	0.0156	0.082
TX0078433	7/31/2020	001A	Aluminum, total [as Al]	0.015	0.021	0.104
TX0078433	8/31/2020	001A	Aluminum, total [as Al]	0.009	0.014	0.075
TX0078433	9/30/2020	001A	Aluminum, total [as Al]	0.018	0.0368	0.09
TX0078433	10/31/2020	001A	Aluminum, total [as Al]	0.015	0.024	0.059
TX0078433	11/30/2020	001A	Aluminum, total [as Al]	0.016	0.0228	0.066
TX0078433	12/31/2020	001A	Aluminum, total [as Al]	0.01	0.0278	0.054
TX0078433	1/31/2021	001A	Aluminum, total [as Al]	0.026	0.036	0.118
TX0078433	2/28/2021	001A	Aluminum, total [as Al]	0.009	0.016	0.038
TX0078433	3/31/2021	001A	Aluminum, total [as Al]	0.021	0.032	0.077
TX0078433	4/30/2021	001A	Aluminum, total [as Al]	0.076	0.254	0.292
TX0078433	5/31/2021	001A	Aluminum, total [as Al]	0.029	0.059	0.161
TX0078433	6/30/2021	001A	Aluminum, total [as Al]	0.02	0.03	0.1
TX0078433	7/31/2021	001A	Aluminum, total [as Al]	0.016	0.037	0.083
TX0078433	8/31/2021	001A	Aluminum, total [as Al]	0.008	0.0161	0.044
TX0078433	9/30/2021	001A	Aluminum, total [as Al]	0.024	0.049	0.098
TX0078433	10/31/2021	001A	Aluminum, total [as Al]	0.009	0.016	0.039
TX0078433	11/30/2021	001A	Aluminum, total [as Al]	0.015	0.027	0.075
TX0078433	12/31/2021	001A	Aluminum, total [as Al]	0.026	0.061	0.114
TX0078433	1/31/2022	001A	Aluminum, total [as Al]	0.0806	0.18	0.368
TX0078433	2/28/2022	001A	Aluminum, total [as Al]	0.119	0.27	0.428
TX0078433	3/31/2022	001A	Aluminum, total [as Al]	0.105	0.311	0.575
TX0078433	4/30/2022	001A	Aluminum, total [as Al]	0.0131	0.0327	0.101
TX0078433	5/31/2022	001A	Aluminum, total [as Al]	0.0236	0.0376	0.108
TX0078433	6/30/2022	001A	Aluminum, total [as Al]	0.0148	0.0237	0.0663
TX0078433	7/31/2022	001A	Aluminum, total [as Al]	0.0308	0.0505	0.101
TX0078433	8/31/2022	001A	Aluminum, total [as Al]	0.0193	0.0487	0.0996
TX0078433	9/30/2022	001A	Aluminum, total [as Al]	0.0262	0.0344	0.135
TX0078433	10/31/2022	001A	Aluminum, total [as Al]	0.0245	0.0347	0.111
TX0078433	11/30/2022	001A	Aluminum, total [as Al]	0.0242	0.0296	0.0894
TX0078433	12/31/2022	001A	Aluminum, total [as Al]	0.0141	0.0202	0.0548
TX0078433	1/31/2023	001A	Aluminum, total [as Al]	0.0129	0.0234	0.0549
TX0078433	2/28/2023	001A	Aluminum, total [as Al]	0.00916	0.0154	0.0391
TX0078433	3/31/2023	001A	Aluminum, total [as Al]	0.00985	0.0117	0.0424
2 YEAR AVERAGE				0.03	0.07	0.14
5 YEAR AVERAGE				0.02	0.05	0.12

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0078433	2/28/2018	001A	BOD, carbonaceous [5 day, 20 C]	4	9	15.68
TX0078433	3/31/2018	001A	BOD, carbonaceous [5 day, 20 C]	3	7	16.54
TX0078433	4/30/2018	001A	BOD, carbonaceous [5 day, 20 C]	3	3	13.66
TX0078433	5/31/2018	001A	BOD, carbonaceous [5 day, 20 C]	2	2	10.32
TX0078433	6/30/2018	001A	BOD, carbonaceous [5 day, 20 C]	2	7	14.535
TX0078433	7/31/2018	001A	BOD, carbonaceous [5 day, 20 C]	2.48	3.1	10.596
TX0078433	8/31/2018	001A	BOD, carbonaceous [5 day, 20 C]	2.4	2.9	12.9

TX0078433	9/30/2018	001A	BOD, carbonaceous [5 day, 20 C]	3.6	4.1	20.3
TX0078433	10/31/2018	001A	BOD, carbonaceous [5 day, 20 C]	4	8.3	21.9
TX0078433	11/30/2018	001A	BOD, carbonaceous [5 day, 20 C]	3.8	6	20.4
TX0078433	12/31/2018	001A	BOD, carbonaceous [5 day, 20 C]	2.4	3.5	20.6
TX0078433	1/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	4.2	5.7	21.2
TX0078433	2/28/2019	001A	BOD, carbonaceous [5 day, 20 C]	3.2	4.9	19.6
TX0078433	3/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.5	3.1	16.1
TX0078433	4/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.8	3.5	16.2
TX0078433	5/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	3.3	4	25.7
TX0078433	6/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	3.6	6.6	27.8
TX0078433	7/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	3.1	4	19.1
TX0078433	8/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.4	3.2	13.5
TX0078433	9/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	2	2	13.7
TX0078433	10/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.1	2.2	10.6
TX0078433	11/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	3.4	7	20.9
TX0078433	12/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2.4	3.2	13
TX0078433	1/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.5	3.2	15.6
TX0078433	2/29/2020	001A	BOD, carbonaceous [5 day, 20 C]	2	2	11.1
TX0078433	3/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.5	3.1	15.1
TX0078433	4/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.5	3.1	18.3
TX0078433	5/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.1	2.7	16.2
TX0078433	6/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.2	2.4	16.1
TX0078433	7/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.6	4.9	19.6
TX0078433	8/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2	2	14.9
TX0078433	9/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	2	2	11.6
TX0078433	10/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.3	3.1	9.3
TX0078433	11/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.2	2.5	8.9
TX0078433	12/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.2	3	11.1
TX0078433	1/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	3.3	5.5	15
TX0078433	2/28/2021	001A	BOD, carbonaceous [5 day, 20 C]	4.4	6.3	17.2
TX0078433	3/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.2	2.9	7.9
TX0078433	4/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.4	3.9	12
TX0078433	5/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.2	2.6	10.8
TX0078433	6/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	2	2	9.9
TX0078433	7/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.8	5.5	12.9
TX0078433	8/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.3	3	10.9
TX0078433	9/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	2	2	9.2
TX0078433	10/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	4.4	12.4	20.6
TX0078433	11/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.4	3.4	11
TX0078433	12/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	3.2	6	14.8
TX0078433	1/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	3.2	3.8	14.7
TX0078433	2/28/2022	001A	BOD, carbonaceous [5 day, 20 C]	4.42	6.2	16.9
TX0078433	3/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	3.85	8.2	19.4
TX0078433	4/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.96	5.5	20.2
TX0078433	5/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.25	3	10.5
TX0078433	6/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.75	3.6	12.8
TX0078433	7/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.22	2.6	7.93
TX0078433	8/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.25	3	12
TX0078433	9/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.3	2.9	12
TX0078433	10/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.52	3.1	11.8
TX0078433	11/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.28	3	8.25
TX0078433	12/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.8	4	11.3
TX0078433	1/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2	2	7.93
TX0078433	2/28/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.52	4.1	9.93
TX0078433	3/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.2	3	9.11
2 YEAR AVERAGE				2.66	4.07	12.19
5 YEAR AVERAGE				2.72	4.08	14.51

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO MIN (mg/L)	Reported Measure MO MAX (mg/L)
TX0078433	2/28/2018	001A	Chlorine, total residual	1.48	3.88
TX0078433	3/31/2018	001A	Chlorine, total residual	1.41	3.21
TX0078433	4/30/2018	001A	Chlorine, total residual	1.18	3.71
TX0078433	5/31/2018	001A	Chlorine, total residual	1.48	3.4
TX0078433	6/30/2018	001A	Chlorine, total residual	1.19	3.41
TX0078433	7/31/2018	001A	Chlorine, total residual	1.17	3.3
TX0078433	8/31/2018	001A	Chlorine, total residual	1.29	3.53
TX0078433	9/30/2018	001A	Chlorine, total residual	1.3	3.62
TX0078433	10/31/2018	001A	Chlorine, total residual	1.5	3.53
TX0078433	11/30/2018	001A	Chlorine, total residual	1.29	3.82
TX0078433	12/31/2018	001A	Chlorine, total residual	1.39	3.7
TX0078433	1/31/2019	001A	Chlorine, total residual	1.12	3.61
TX0078433	2/28/2019	001A	Chlorine, total residual	1.19	3.74
TX0078433	3/31/2019	001A	Chlorine, total residual	1.4	3.84
TX0078433	4/30/2019	001A	Chlorine, total residual	1.2	3.45
TX0078433	5/31/2019	001A	Chlorine, total residual	1.42	3.75
TX0078433	6/30/2019	001A	Chlorine, total residual	1.21	3.84
TX0078433	7/31/2019	001A	Chlorine, total residual	1.2	2.82
TX0078433	8/31/2019	001A	Chlorine, total residual	1.12	3.7
TX0078433	9/30/2019	001A	Chlorine, total residual	1.9	3.85
TX0078433	10/31/2019	001A	Chlorine, total residual	1.29	3.92
TX0078433	11/30/2019	001A	Chlorine, total residual	1.1	3.9
TX0078433	12/31/2019	001A	Chlorine, total residual	1.54	3.94
TX0078433	1/31/2020	001A	Chlorine, total residual	1.51	3.95
TX0078433	2/29/2020	001A	Chlorine, total residual	1.7	3.84
TX0078433	3/31/2020	001A	Chlorine, total residual	2.51	3.94
TX0078433	4/30/2020	001A	Chlorine, total residual	1.72	3.84

TX0078433	5/31/2020	001A	Chlorine, total residual	1.3	3.82
TX0078433	6/30/2020	001A	Chlorine, total residual	1.11	3.74
TX0078433	7/31/2020	001A	Chlorine, total residual	1.31	3.84
TX0078433	8/31/2020	001A	Chlorine, total residual	1.12	3.84
TX0078433	9/30/2020	001A	Chlorine, total residual	1.03	3.84
TX0078433	10/31/2020	001A	Chlorine, total residual	1.2	3.92
TX0078433	11/30/2020	001A	Chlorine, total residual	1.52	3.93
TX0078433	12/31/2020	001A	Chlorine, total residual	1.4	3.83
TX0078433	1/31/2021	001A	Chlorine, total residual	1.51	3.84
TX0078433	2/28/2021	001A	Chlorine, total residual	1.42	3.74
TX0078433	3/31/2021	001A	Chlorine, total residual	1.2	3.84
TX0078433	4/30/2021	001A	Chlorine, total residual	1.51	3
TX0078433	5/31/2021	001A	Chlorine, total residual	1.41	3.41
TX0078433	6/30/2021	001A	Chlorine, total residual	1.41	3.42
TX0078433	7/31/2021	001A	Chlorine, total residual	1.5	3.72
TX0078433	8/31/2021	001A	Chlorine, total residual	1.2	2.92
TX0078433	9/30/2021	001A	Chlorine, total residual	1.3	3.5
TX0078433	10/31/2021	001A	Chlorine, total residual	1.41	3.73
TX0078433	11/30/2021	001A	Chlorine, total residual	1.2	3.64
TX0078433	12/31/2021	001A	Chlorine, total residual	1.21	3.64
TX0078433	1/31/2022	001A	Chlorine, total residual	1.22	3.63
TX0078433	2/28/2022	001A	Chlorine, total residual	1.22	3.74
TX0078433	3/31/2022	001A	Chlorine, total residual	1.21	3.84
TX0078433	4/30/2022	001A	Chlorine, total residual	1.1	3.84
TX0078433	5/31/2022	001A	Chlorine, total residual	1.83	3.34
TX0078433	6/30/2022	001A	Chlorine, total residual	1.93	2.53
TX0078433	7/31/2022	001A	Chlorine, total residual	2.13	2.53
TX0078433	8/31/2022	001A	Chlorine, total residual	1.93	3.53
TX0078433	9/30/2022	001A	Chlorine, total residual	2.03	3.73
TX0078433	10/31/2022	001A	Chlorine, total residual	2.83	3.73
TX0078433	11/30/2022	001A	Chlorine, total residual	2.33	3.63
TX0078433	12/31/2022	001A	Chlorine, total residual	1.93	3.13
TX0078433	1/31/2023	001A	Chlorine, total residual	1.43	2.73
TX0078433	2/28/2023	001A	Chlorine, total residual	1.73	2.73
TX0078433	3/31/2023	001A	Chlorine, total residual	1.93	2.63
2 YEAR AVERAGE				1.61	3.36
5 YEAR AVERAGE				1.47	3.57

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (CFU/100m)	Reported Measure DAILY MX (CFU/100mL)
TX0078433	2/28/2018	001A	E. coli	7	47
TX0078433	3/31/2018	001A	E. coli	1	1
TX0078433	4/30/2018	001A	E. coli	2	3
TX0078433	5/31/2018	001A	E. coli	1	2
TX0078433	6/30/2018	001A	E. coli	1	1
TX0078433	7/31/2018	001A	E. coli	2	2
TX0078433	8/31/2018	001A	E. coli	20	202
TX0078433	9/30/2018	001A	E. coli	3	6
TX0078433	10/31/2018	001A	E. coli	2	2
TX0078433	11/30/2018	001A	E. coli	2	2
TX0078433	12/31/2018	001A	E. coli	4	8
TX0078433	1/31/2019	001A	E. coli	19	1960
TX0078433	2/28/2019	001A	E. coli	2	2
TX0078433	3/31/2019	001A	E. coli	2	4
TX0078433	4/30/2019	001A	E. coli	2	2
TX0078433	5/31/2019	001A	E. coli	2	2
TX0078433	6/30/2019	001A	E. coli	2	2
TX0078433	7/31/2019	001A	E. coli	5	13
TX0078433	8/31/2019	001A	E. coli	3	6
TX0078433	9/30/2019	001A	E. coli	11	15
TX0078433	10/31/2019	001A	E. coli	2	2
TX0078433	11/30/2019	001A	E. coli	2	2
TX0078433	12/31/2019	001A	E. coli	2	2
TX0078433	1/31/2020	001A	E. coli	2	2
TX0078433	2/29/2020	001A	E. coli	2	2
TX0078433	3/31/2020	001A	E. coli	2	2
TX0078433	4/30/2020	001A	E. coli	2	2
TX0078433	5/31/2020	001A	E. coli	2	2
TX0078433	6/30/2020	001A	E. coli	2	2
TX0078433	7/31/2020	001A	E. coli	4	8
TX0078433	8/31/2020	001A	E. coli	2	2
TX0078433	9/30/2020	001A	E. coli	2	2
TX0078433	10/31/2020	001A	E. coli	2	2
TX0078433	11/30/2020	001A	E. coli	2	2
TX0078433	12/31/2020	001A	E. coli	38	731
TX0078433	1/31/2021	001A	E. coli	2	2
TX0078433	2/28/2021	001A	E. coli	4	13
TX0078433	3/31/2021	001A	E. coli	1	2
TX0078433	4/30/2021	001A	E. coli	1	1
TX0078433	5/31/2021	001A	E. coli	2	2
TX0078433	6/30/2021	001A	E. coli	1	2
TX0078433	7/31/2021	001A	E. coli	2	2
TX0078433	8/31/2021	001A	E. coli	2	2
TX0078433	9/30/2021	001A	E. coli	2	2
TX0078433	10/31/2021	001A	E. coli	2	2
TX0078433	11/30/2021	001A	E. coli	2	2
TX0078433	12/31/2021	001A	E. coli	3	6

TX0078433	1/31/2022	001A	E. coli	2	2
TX0078433	2/28/2022	001A	E. coli	2	2
TX0078433	3/31/2022	001A	E. coli	2	2
TX0078433	4/30/2022	001A	E. coli	2	2
TX0078433	5/31/2022	001A	E. coli	5.48	15
TX0078433	6/30/2022	001A	E. coli	2	2
TX0078433	7/31/2022	001A	E. coli	31.6	498
TX0078433	8/31/2022	001A	E. coli	2	2
TX0078433	9/30/2022	001A	E. coli	6.32	10
TX0078433	10/31/2022	001A	E. coli	2	2
TX0078433	11/30/2022	001A	E. coli	2	2
TX0078433	12/31/2022	001A	E. coli	2	2
TX0078433	1/31/2023	001A	E. coli	2	2
TX0078433	2/28/2023	001A	E. coli	2	2
TX0078433	3/31/2023	001A	E. coli	2	2
2 YEAR GEOMEAN				2.28	2.93
5 YEAR GEOMEAN				2.57	3.85

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure
				DAILY AV (MGD)	DAILY MX (MGD)
TX0078433	2/28/2018	001A	Flow, in conduit or thru treatment plant	0.747	1.388
TX0078433	3/31/2018	001A	Flow, in conduit or thru treatment plant	0.713	1.491
TX0078433	4/30/2018	001A	Flow, in conduit or thru treatment plant	0.684	1.026
TX0078433	5/31/2018	001A	Flow, in conduit or thru treatment plant	0.658	1.376
TX0078433	6/30/2018	001A	Flow, in conduit or thru treatment plant	0.69	1.102
TX0078433	7/31/2018	001A	Flow, in conduit or thru treatment plant	0.675	1.579
TX0078433	8/31/2018	001A	Flow, in conduit or thru treatment plant	0.671	0.912
TX0078433	9/30/2018	001A	Flow, in conduit or thru treatment plant	0.699	0.965
TX0078433	10/31/2018	001A	Flow, in conduit or thru treatment plant	0.723	1.482
TX0078433	11/30/2018	001A	Flow, in conduit or thru treatment plant	0.735	1.306
TX0078433	12/31/2018	001A	Flow, in conduit or thru treatment plant	0.75	1.924
TX0078433	1/31/2019	001A	Flow, in conduit or thru treatment plant	0.705	1.258
TX0078433	2/28/2019	001A	Flow, in conduit or thru treatment plant	0.659	1.154
TX0078433	3/31/2019	001A	Flow, in conduit or thru treatment plant	0.664	1.107
TX0078433	4/30/2019	001A	Flow, in conduit or thru treatment plant	0.677	1.202
TX0078433	5/31/2019	001A	Flow, in conduit or thru treatment plant	0.724	1.34
TX0078433	6/30/2019	001A	Flow, in conduit or thru treatment plant	0.672	1.133
TX0078433	7/31/2019	001A	Flow, in conduit or thru treatment plant	0.678	1.048
TX0078433	8/31/2019	001A	Flow, in conduit or thru treatment plant	0.696	1.022
TX0078433	9/30/2019	001A	Flow, in conduit or thru treatment plant	0.7	1.114
TX0078433	10/31/2019	001A	Flow, in conduit or thru treatment plant	0.681	1.168
TX0078433	11/30/2019	001A	Flow, in conduit or thru treatment plant	0.681	0.987
TX0078433	12/31/2019	001A	Flow, in conduit or thru treatment plant	0.679	1.036
TX0078433	1/31/2020	001A	Flow, in conduit or thru treatment plant	0.713	0.925
TX0078433	2/29/2020	001A	Flow, in conduit or thru treatment plant	0.684	1.023
TX0078433	3/31/2020	001A	Flow, in conduit or thru treatment plant	0.717	1.136
TX0078433	4/30/2020	001A	Flow, in conduit or thru treatment plant	0.845	1.189
TX0078433	5/31/2020	001A	Flow, in conduit or thru treatment plant	0.852	1.178
TX0078433	6/30/2020	001A	Flow, in conduit or thru treatment plant	0.859	1.521
TX0078433	7/31/2020	001A	Flow, in conduit or thru treatment plant	0.857	1.343
TX0078433	8/31/2020	001A	Flow, in conduit or thru treatment plant	0.832	1.043
TX0078433	9/30/2020	001A	Flow, in conduit or thru treatment plant	0.744	1.595
TX0078433	10/31/2020	001A	Flow, in conduit or thru treatment plant	0.496	0.732
TX0078433	11/30/2020	001A	Flow, in conduit or thru treatment plant	0.502	0.906
TX0078433	12/31/2020	001A	Flow, in conduit or thru treatment plant	0.497	0.925
TX0078433	1/31/2021	001A	Flow, in conduit or thru treatment plant	0.498	0.889
TX0078433	2/28/2021	001A	Flow, in conduit or thru treatment plant	0.519	0.801
TX0078433	3/31/2021	001A	Flow, in conduit or thru treatment plant	0.491	0.823
TX0078433	4/30/2021	001A	Flow, in conduit or thru treatment plant	0.491	1.036
TX0078433	5/31/2021	001A	Flow, in conduit or thru treatment plant	0.6	1.103
TX0078433	6/30/2021	001A	Flow, in conduit or thru treatment plant	0.544	0.837
TX0078433	7/31/2021	001A	Flow, in conduit or thru treatment plant	0.562	0.809
TX0078433	8/31/2021	001A	Flow, in conduit or thru treatment plant	0.539	0.742
TX0078433	9/30/2021	001A	Flow, in conduit or thru treatment plant	0.54	0.928
TX0078433	10/31/2021	001A	Flow, in conduit or thru treatment plant	0.533	0.866
TX0078433	11/30/2021	001A	Flow, in conduit or thru treatment plant	0.518	1.046
TX0078433	12/31/2021	001A	Flow, in conduit or thru treatment plant	0.531	0.766
TX0078433	1/31/2022	001A	Flow, in conduit or thru treatment plant	0.536	0.816
TX0078433	2/28/2022	001A	Flow, in conduit or thru treatment plant	0.526	0.877
TX0078433	3/31/2022	001A	Flow, in conduit or thru treatment plant	0.656	1.434
TX0078433	4/30/2022	001A	Flow, in conduit or thru treatment plant	0.616	1.391
TX0078433	5/31/2022	001A	Flow, in conduit or thru treatment plant	0.558	0.841
TX0078433	6/30/2022	001A	Flow, in conduit or thru treatment plant	0.522	0.584
TX0078433	7/31/2022	001A	Flow, in conduit or thru treatment plant	0.522	0.644
TX0078433	8/31/2022	001A	Flow, in conduit or thru treatment plant	0.574	0.778
TX0078433	9/30/2022	001A	Flow, in conduit or thru treatment plant	0.569	0.851
TX0078433	10/31/2022	001A	Flow, in conduit or thru treatment plant	0.526	0.821
TX0078433	11/30/2022	001A	Flow, in conduit or thru treatment plant	0.518	0.693
TX0078433	12/31/2022	001A	Flow, in conduit or thru treatment plant	0.525	1.054
TX0078433	1/31/2023	001A	Flow, in conduit or thru treatment plant	0.555	1.377
TX0078433	2/28/2023	001A	Flow, in conduit or thru treatment plant	0.52	1.035
TX0078433	3/31/2023	001A	Flow, in conduit or thru treatment plant	0.473	0.689
2 YEAR AVERAGE				0.54	0.91
5 YEAR AVERAGE				0.63	1.07

EPA ID			Reported Measure	Reported Measure	Reported Measure
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	Monitoring Period	Outfall	Parameter	DAILY AV (mg/L)	DAILY MX (mg/L)	DAILY AV (lb/d)
TX0078433	2/28/2018	001A	Nitrogen, ammonia total [as N]	2.43	6.61	10.19
TX0078433	3/31/2018	001A	Nitrogen, ammonia total [as N]	1.82	4.7	7.53
TX0078433	4/30/2018	001A	Nitrogen, ammonia total [as N]	0.27	0.75	1.38
TX0078433	5/31/2018	001A	Nitrogen, ammonia total [as N]	0.72	2.09	3.8
TX0078433	6/30/2018	001A	Nitrogen, ammonia total [as N]	0.47	1.41	2.296
TX0078433	7/31/2018	001A	Nitrogen, ammonia total [as N]	0.25	0.4	1.109
TX0078433	8/31/2018	001A	Nitrogen, ammonia total [as N]	0.2	0.4	0.8
TX0078433	9/30/2018	001A	Nitrogen, ammonia total [as N]	0.1	0.1	0.6
TX0078433	10/31/2018	001A	Nitrogen, ammonia total [as N]	0.2	0.3	0.8
TX0078433	11/30/2018	001A	Nitrogen, ammonia total [as N]	3.8	15.2	22.6
TX0078433	12/31/2018	001A	Nitrogen, ammonia total [as N]	0.3	1	2.6
TX0078433	1/31/2019	001A	Nitrogen, ammonia total [as N]	0.1	0.1	0.5
TX0078433	2/28/2019	001A	Nitrogen, ammonia total [as N]	0.1	0.2	0.8
TX0078433	3/31/2019	001A	Nitrogen, ammonia total [as N]	0.1	0.1	0.6
TX0078433	4/30/2019	001A	Nitrogen, ammonia total [as N]	0.2	0.4	1
TX0078433	5/31/2019	001A	Nitrogen, ammonia total [as N]	0.2	0.5	1.7
TX0078433	6/30/2019	001A	Nitrogen, ammonia total [as N]	0.8	2	4.8
TX0078433	7/31/2019	001A	Nitrogen, ammonia total [as N]	0.5	1.4	3.1
TX0078433	8/31/2019	001A	Nitrogen, ammonia total [as N]	0.2	0.3	1
TX0078433	9/30/2019	001A	Nitrogen, ammonia total [as N]	0.2	0.3	1.2
TX0078433	10/31/2019	001A	Nitrogen, ammonia total [as N]	0.7	1.9	3.8
TX0078433	11/30/2019	001A	Nitrogen, ammonia total [as N]	0.4	1.4	2.7
TX0078433	12/31/2019	001A	Nitrogen, ammonia total [as N]	0.3	0.9	1.9
TX0078433	1/31/2020	001A	Nitrogen, ammonia total [as N]	0.4	0.6	2.2
TX0078433	2/29/2020	001A	Nitrogen, ammonia total [as N]	0.4	0.8	2.1
TX0078433	3/31/2020	001A	Nitrogen, ammonia total [as N]	0.1	0.2	0.7
TX0078433	4/30/2020	001A	Nitrogen, ammonia total [as N]	0.4	0.7	2.3
TX0078433	5/31/2020	001A	Nitrogen, ammonia total [as N]	0.5	2.1	3.7
TX0078433	6/30/2020	001A	Nitrogen, ammonia total [as N]	0.2	0.4	1.3
TX0078433	7/31/2020	001A	Nitrogen, ammonia total [as N]	0.1	0.2	0.9
TX0078433	8/31/2020	001A	Nitrogen, ammonia total [as N]	0.2	0.3	1.1
TX0078433	9/30/2020	001A	Nitrogen, ammonia total [as N]	0.3	0.8	1.8
TX0078433	10/31/2020	001A	Nitrogen, ammonia total [as N]	1.5	5.5	6.1
TX0078433	11/30/2020	001A	Nitrogen, ammonia total [as N]	0.6	1.2	2.8
TX0078433	12/31/2020	001A	Nitrogen, ammonia total [as N]	0.4	0.8	2.1
TX0078433	1/31/2021	001A	Nitrogen, ammonia total [as N]	1	1.2	4.7
TX0078433	2/28/2021	001A	Nitrogen, ammonia total [as N]	1.3	2.1	5.6
TX0078433	3/31/2021	001A	Nitrogen, ammonia total [as N]	0.5	1	1.7
TX0078433	4/30/2021	001A	Nitrogen, ammonia total [as N]	2	5	11.5
TX0078433	5/31/2021	001A	Nitrogen, ammonia total [as N]	0.9	1.3	4.6
TX0078433	6/30/2021	001A	Nitrogen, ammonia total [as N]	0.3	0.5	1.6
TX0078433	7/31/2021	001A	Nitrogen, ammonia total [as N]	1.9	7.8	8.4
TX0078433	8/31/2021	001A	Nitrogen, ammonia total [as N]	0.4	0.7	1.7
TX0078433	9/30/2021	001A	Nitrogen, ammonia total [as N]	0.5	0.8	2
TX0078433	10/31/2021	001A	Nitrogen, ammonia total [as N]	0.9	3.3	4.4
TX0078433	11/30/2021	001A	Nitrogen, ammonia total [as N]	0.5	1	1.5
TX0078433	12/31/2021	001A	Nitrogen, ammonia total [as N]	0.2	0.4	1.1
TX0078433	1/31/2022	001A	Nitrogen, ammonia total [as N]	0.825	2.1	4.02
TX0078433	2/28/2022	001A	Nitrogen, ammonia total [as N]	1.15	1.4	4.84
TX0078433	3/31/2022	001A	Nitrogen, ammonia total [as N]	0.225	0.4	1.09
TX0078433	4/30/2022	001A	Nitrogen, ammonia total [as N]	0.48	1.8	2.34
TX0078433	5/31/2022	001A	Nitrogen, ammonia total [as N]	0.725	1.7	3.22
TX0078433	6/30/2022	001A	Nitrogen, ammonia total [as N]	1	1.9	4.65
TX0078433	7/31/2022	001A	Nitrogen, ammonia total [as N]	0.28	0.6	0.787
TX0078433	8/31/2022	001A	Nitrogen, ammonia total [as N]	0.15	0.2	0.834
TX0078433	9/30/2022	001A	Nitrogen, ammonia total [as N]	0.14	0.2	0.731
TX0078433	10/31/2022	001A	Nitrogen, ammonia total [as N]	0.125	0.2	0.551
TX0078433	11/30/2022	001A	Nitrogen, ammonia total [as N]	0.2	0.3	0.703
TX0078433	12/31/2022	001A	Nitrogen, ammonia total [as N]	0.26	0.8	1.12
TX0078433	1/31/2023	001A	Nitrogen, ammonia total [as N]	2.32	7.4	7.36
TX0078433	2/28/2023	001A	Nitrogen, ammonia total [as N]	1.18	2.4	5.15
TX0078433	3/31/2023	001A	Nitrogen, ammonia total [as N]	1.4	2.7	5.69
2 YEAR AVERAGE				0.74	1.84	3.26
5 YEAR AVERAGE				0.65	1.70	3.16

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				MO MIN (mg/L)
TX0078433	2/28/2018	001A	Oxygen, dissolved [DO]	10
TX0078433	3/31/2018	001A	Oxygen, dissolved [DO]	7.4
TX0078433	4/30/2018	001A	Oxygen, dissolved [DO]	8.71
TX0078433	5/31/2018	001A	Oxygen, dissolved [DO]	8.97
TX0078433	6/30/2018	001A	Oxygen, dissolved [DO]	7.93
TX0078433	7/31/2018	001A	Oxygen, dissolved [DO]	7.5
TX0078433	8/31/2018	001A	Oxygen, dissolved [DO]	7.1
TX0078433	9/30/2018	001A	Oxygen, dissolved [DO]	7.4
TX0078433	10/31/2018	001A	Oxygen, dissolved [DO]	7.9
TX0078433	11/30/2018	001A	Oxygen, dissolved [DO]	7.7
TX0078433	12/31/2018	001A	Oxygen, dissolved [DO]	8.7
TX0078433	1/31/2019	001A	Oxygen, dissolved [DO]	8.7
TX0078433	2/28/2019	001A	Oxygen, dissolved [DO]	7.8
TX0078433	3/31/2019	001A	Oxygen, dissolved [DO]	8
TX0078433	4/30/2019	001A	Oxygen, dissolved [DO]	8.2
TX0078433	5/31/2019	001A	Oxygen, dissolved [DO]	8.3
TX0078433	6/30/2019	001A	Oxygen, dissolved [DO]	8.1
TX0078433	7/31/2019	001A	Oxygen, dissolved [DO]	7.8
TX0078433	8/31/2019	001A	Oxygen, dissolved [DO]	7.6

TX0078433	9/30/2019	001A	Oxygen, dissolved [DO]	7.5
TX0078433	10/31/2019	001A	Oxygen, dissolved [DO]	7.7
TX0078433	11/30/2019	001A	Oxygen, dissolved [DO]	8.1
TX0078433	12/31/2019	001A	Oxygen, dissolved [DO]	8.4
TX0078433	1/31/2020	001A	Oxygen, dissolved [DO]	7.7
TX0078433	2/29/2020	001A	Oxygen, dissolved [DO]	9.2
TX0078433	3/31/2020	001A	Oxygen, dissolved [DO]	8.1
TX0078433	4/30/2020	001A	Oxygen, dissolved [DO]	8.4
TX0078433	5/31/2020	001A	Oxygen, dissolved [DO]	7.3
TX0078433	6/30/2020	001A	Oxygen, dissolved [DO]	7.8
TX0078433	7/31/2020	001A	Oxygen, dissolved [DO]	7.7
TX0078433	8/31/2020	001A	Oxygen, dissolved [DO]	7.7
TX0078433	9/30/2020	001A	Oxygen, dissolved [DO]	7.8
TX0078433	10/31/2020	001A	Oxygen, dissolved [DO]	7.9
TX0078433	11/30/2020	001A	Oxygen, dissolved [DO]	7.9
TX0078433	12/31/2020	001A	Oxygen, dissolved [DO]	8.3
TX0078433	1/31/2021	001A	Oxygen, dissolved [DO]	8.5
TX0078433	2/28/2021	001A	Oxygen, dissolved [DO]	7.4
TX0078433	3/31/2021	001A	Oxygen, dissolved [DO]	6.8
TX0078433	4/30/2021	001A	Oxygen, dissolved [DO]	6
TX0078433	5/31/2021	001A	Oxygen, dissolved [DO]	8.9
TX0078433	6/30/2021	001A	Oxygen, dissolved [DO]	7.2
TX0078433	7/31/2021	001A	Oxygen, dissolved [DO]	7.5
TX0078433	8/31/2021	001A	Oxygen, dissolved [DO]	6.4
TX0078433	9/30/2021	001A	Oxygen, dissolved [DO]	7
TX0078433	10/31/2021	001A	Oxygen, dissolved [DO]	7.2
TX0078433	11/30/2021	001A	Oxygen, dissolved [DO]	7
TX0078433	12/31/2021	001A	Oxygen, dissolved [DO]	6.8
TX0078433	1/31/2022	001A	Oxygen, dissolved [DO]	9.4
TX0078433	2/28/2022	001A	Oxygen, dissolved [DO]	9.1
TX0078433	3/31/2022	001A	Oxygen, dissolved [DO]	7.2
TX0078433	4/30/2022	001A	Oxygen, dissolved [DO]	8.3
TX0078433	5/31/2022	001A	Oxygen, dissolved [DO]	8.1
TX0078433	6/30/2022	001A	Oxygen, dissolved [DO]	7.2
TX0078433	7/31/2022	001A	Oxygen, dissolved [DO]	7.3
TX0078433	8/31/2022	001A	Oxygen, dissolved [DO]	7.2
TX0078433	9/30/2022	001A	Oxygen, dissolved [DO]	7
TX0078433	10/31/2022	001A	Oxygen, dissolved [DO]	7.8
TX0078433	11/30/2022	001A	Oxygen, dissolved [DO]	7.4
TX0078433	12/31/2022	001A	Oxygen, dissolved [DO]	7.9
TX0078433	1/31/2023	001A	Oxygen, dissolved [DO]	7.5
TX0078433	2/28/2023	001A	Oxygen, dissolved [DO]	7.9
TX0078433	3/31/2023	001A	Oxygen, dissolved [DO]	6.4
2 YEAR AVERAGE				7.46
5 YEAR AVERAGE				7.80

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure
				MINIMUM (SU)	MAXIMUM (SU)
TX0078433	2/28/2018	001A	pH	7.1	7.49
TX0078433	3/31/2018	001A	pH	7.04	7.59
TX0078433	4/30/2018	001A	pH	7.03	7.67
TX0078433	5/31/2018	001A	pH	7.23	7.57
TX0078433	6/30/2018	001A	pH	7.43	8.81
TX0078433	7/31/2018	001A	pH	7.6	7.7
TX0078433	8/31/2018	001A	pH	7.8	7.8
TX0078433	9/30/2018	001A	pH	7.6	7.7
TX0078433	10/31/2018	001A	pH	7.6	7.7
TX0078433	11/30/2018	001A	pH	8	8
TX0078433	12/31/2018	001A	pH	7.8	8.2
TX0078433	1/31/2019	001A	pH	7.8	8
TX0078433	2/28/2019	001A	pH	7.3	7.6
TX0078433	3/31/2019	001A	pH	8	8.2
TX0078433	4/30/2019	001A	pH	7.6	7.8
TX0078433	5/31/2019	001A	pH	8.2	8.2
TX0078433	6/30/2019	001A	pH	8	8
TX0078433	7/31/2019	001A	pH	7.8	8.1
TX0078433	8/31/2019	001A	pH	6.8	8.4
TX0078433	9/30/2019	001A	pH	7.4	8.2
TX0078433	10/31/2019	001A	pH	7.4	7.8
TX0078433	11/30/2019	001A	pH	7.6	7.6
TX0078433	12/31/2019	001A	pH	7.3	7.7
TX0078433	1/31/2020	001A	pH	7.8	7.9
TX0078433	2/29/2020	001A	pH	7.6	7.8
TX0078433	3/31/2020	001A	pH	7.7	8
TX0078433	4/30/2020	001A	pH	6.8	7.6
TX0078433	5/31/2020	001A	pH	7.5	7.6
TX0078433	6/30/2020	001A	pH	7.4	7.7
TX0078433	7/31/2020	001A	pH	7.3	7.5
TX0078433	8/31/2020	001A	pH	7.5	8
TX0078433	9/30/2020	001A	pH	7.5	7.8
TX0078433	10/31/2020	001A	pH	7.5	7.7
TX0078433	11/30/2020	001A	pH	7.5	7.5
TX0078433	12/31/2020	001A	pH	7.6	7.8
TX0078433	1/31/2021	001A	pH	7.6	7.7
TX0078433	2/28/2021	001A	pH	7.4	7.7
TX0078433	3/31/2021	001A	pH	7.5	6.5
TX0078433	4/30/2021	001A	pH	7.4	7.9

TX0078433	5/31/2021	001A	pH	7.9	7.9
TX0078433	6/30/2021	001A	pH	7.4	7.7
TX0078433	7/31/2021	001A	pH	7.6	7.7
TX0078433	8/31/2021	001A	pH	7.9	8
TX0078433	9/30/2021	001A	pH	7.4	7.8
TX0078433	10/31/2021	001A	pH	7.3	7.9
TX0078433	11/30/2021	001A	pH	7	7.7
TX0078433	12/31/2021	001A	pH	7.3	7.5
TX0078433	1/31/2022	001A	pH	7.3	7.7
TX0078433	2/28/2022	001A	pH	7.1	7.5
TX0078433	3/31/2022	001A	pH	7.4	7.6
TX0078433	4/30/2022	001A	pH	7.5	8
TX0078433	5/31/2022	001A	pH	8	8.2
TX0078433	6/30/2022	001A	pH	8	8.1
TX0078433	7/31/2022	001A	pH	8.3	8.4
TX0078433	8/31/2022	001A	pH	7.7	8.2
TX0078433	9/30/2022	001A	pH	7.3	7.7
TX0078433	10/31/2022	001A	pH	8	8.1
TX0078433	11/30/2022	001A	pH	7.9	7.9
TX0078433	12/31/2022	001A	pH	7.3	8.3
TX0078433	1/31/2023	001A	pH	7.8	8.1
TX0078433	2/28/2023	001A	pH	7.6	7.6
TX0078433	3/31/2023	001A	pH	7.5	7.5
2 YEAR AVERAGE				7.58	7.90
5 YEAR AVERAGE				7.54	7.87

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0078433	2/28/2018	001A	Solids, total suspended	1.38	2.5	5.83
TX0078433	3/31/2018	001A	Solids, total suspended	1.06	1.3	5.08
TX0078433	4/30/2018	001A	Solids, total suspended	1.43	2	6.98
TX0078433	5/31/2018	001A	Solids, total suspended	1.85	2.7	9.63
TX0078433	6/30/2018	001A	Solids, total suspended	1.18	1.4	5.431
TX0078433	7/31/2018	001A	Solids, total suspended	1.38	2	5.833
TX0078433	8/31/2018	001A	Solids, total suspended	1.3	1.8	6.9
TX0078433	9/30/2018	001A	Solids, total suspended	1.2	1.7	6.9
TX0078433	10/31/2018	001A	Solids, total suspended	1.3	1.7	7.2
TX0078433	11/30/2018	001A	Solids, total suspended	1.9	3.3	10.4
TX0078433	12/31/2018	001A	Solids, total suspended	2.2	3.3	20.6
TX0078433	1/31/2019	001A	Solids, total suspended	4.5	14.9	20.4
TX0078433	2/28/2019	001A	Solids, total suspended	2	2.9	12.4
TX0078433	3/31/2019	001A	Solids, total suspended	4	15	29.7
TX0078433	4/30/2019	001A	Solids, total suspended	3	4.6	16.9
TX0078433	5/31/2019	001A	Solids, total suspended	1.3	2	10.1
TX0078433	6/30/2019	001A	Solids, total suspended	1.9	2.7	13.7
TX0078433	7/31/2019	001A	Solids, total suspended	2.4	3.8	14.1
TX0078433	8/31/2019	001A	Solids, total suspended	1.6	2.8	8.8
TX0078433	9/30/2019	001A	Solids, total suspended	2.1	2.6	14.4
TX0078433	10/31/2019	001A	Solids, total suspended	1.4	2.3	7.1
TX0078433	11/30/2019	001A	Solids, total suspended	3	5.6	18.5
TX0078433	12/31/2019	001A	Solids, total suspended	2.4	3.6	14.3
TX0078433	1/31/2020	001A	Solids, total suspended	1.9	2.6	12
TX0078433	2/29/2020	001A	Solids, total suspended	1.8	3.4	9.5
TX0078433	3/31/2020	001A	Solids, total suspended	3.8	11.4	18.6
TX0078433	4/30/2020	001A	Solids, total suspended	1.1	1.4	8.2
TX0078433	5/31/2020	001A	Solids, total suspended	1.9	4.3	14.6
TX0078433	6/30/2020	001A	Solids, total suspended	1.3	1.9	10
TX0078433	7/31/2020	001A	Solids, total suspended	1.5	2.4	10.8
TX0078433	8/31/2020	001A	Solids, total suspended	1.2	1.6	8.5
TX0078433	9/30/2020	001A	Solids, total suspended	2.4	5.1	11.5
TX0078433	10/31/2020	001A	Solids, total suspended	2	5.2	8.3
TX0078433	11/30/2020	001A	Solids, total suspended	1.8	3.1	6.9
TX0078433	12/31/2020	001A	Solids, total suspended	1.5	2.6	7.6
TX0078433	1/31/2021	001A	Solids, total suspended	4.6	10.2	21.5
TX0078433	2/28/2021	001A	Solids, total suspended	2.2	2.7	9.2
TX0078433	3/31/2021	001A	Solids, total suspended	4.7	10	16.1
TX0078433	4/30/2021	001A	Solids, total suspended	10.3	39	38.2
TX0078433	5/31/2021	001A	Solids, total suspended	1.4	2	6.9
TX0078433	6/30/2021	001A	Solids, total suspended	1.2	1.4	5.7
TX0078433	7/31/2021	001A	Solids, total suspended	1.6	4.2	7.6
TX0078433	8/31/2021	001A	Solids, total suspended	1.3	1.8	6.1
TX0078433	9/30/2021	001A	Solids, total suspended	1.3	2.1	6.5
TX0078433	10/31/2021	001A	Solids, total suspended	2.2	4.7	9.8
TX0078433	11/30/2021	001A	Solids, total suspended	2.6	5	12.5
TX0078433	12/31/2021	001A	Solids, total suspended	7.4	17	31.4
TX0078433	1/31/2022	001A	Solids, total suspended	10.4	24	47
TX0078433	2/28/2022	001A	Solids, total suspended	13.8	39.4	48.5
TX0078433	3/31/2022	001A	Solids, total suspended	20.4	92.5	109
TX0078433	4/30/2022	001A	Solids, total suspended	6.38	37.5	58
TX0078433	5/31/2022	001A	Solids, total suspended	3.22	7.2	14.5
TX0078433	6/30/2022	001A	Solids, total suspended	1.42	2.1	6.42
TX0078433	7/31/2022	001A	Solids, total suspended	3.18	8.4	7.06
TX0078433	8/31/2022	001A	Solids, total suspended	3.82	8.4	19.8
TX0078433	9/30/2022	001A	Solids, total suspended	2.3	4.5	11.5
TX0078433	10/31/2022	001A	Solids, total suspended	2.1	2.8	10
TX0078433	11/30/2022	001A	Solids, total suspended	2.15	3.1	7.71
TX0078433	12/31/2022	001A	Solids, total suspended	1.72	2.4	6.68

TX0078433	1/31/2023	001A	Solids, total suspended	1.1	1.4	4.32
TX0078433	2/28/2023	001A	Solids, total suspended	2.3	5	10.2
TX0078433	3/31/2023	001A	Solids, total suspended	1.34	1.6	5.62
2 YEAR AVERAGE				4.39	13.10	20.28
5 YEAR AVERAGE				2.97	7.61	15.09

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0078433	2/28/2018	001A	Zinc, total [as Zn]	0.054	0.07	0.229
TX0078433	3/31/2018	001A	Zinc, total [as Zn]	0.11	0.278	0.53
TX0078433	4/30/2018	001A	Zinc, total [as Zn]	0.068	0.084	0.328
TX0078433	5/31/2018	001A	Zinc, total [as Zn]	0.119	0.177	0.615
TX0078433	6/30/2018	001A	Zinc, total [as Zn]	0.075	0.083	0.349
TX0078433	7/31/2018	001A	Zinc, total [as Zn]	0.0892	0.1	0.387
TX0078433	8/31/2018	001A	Zinc, total [as Zn]	0.069	0.074	0.371
TX0078433	9/30/2018	001A	Zinc, total [as Zn]	0.0693	0.0755	0.391
TX0078433	10/31/2018	001A	Zinc, total [as Zn]	0.09	0.11	0.52
TX0078433	11/30/2018	001A	Zinc, total [as Zn]	0.0986	0.117	0.48
TX0078433	12/31/2018	001A	Zinc, total [as Zn]	0.076	0.104	0.737
TX0078433	1/31/2019	001A	Zinc, total [as Zn]	0.104	0.156	0.525
TX0078433	2/28/2019	001A	Zinc, total [as Zn]	0.088	0.097	0.554
TX0078433	3/31/2019	001A	Zinc, total [as Zn]	0.062	0.076	0.384
TX0078433	4/30/2019	001A	Zinc, total [as Zn]	0.105	0.121	0.584
TX0078433	5/31/2019	001A	Zinc, total [as Zn]	0.092	0.119	0.691
TX0078433	6/30/2019	001A	Zinc, total [as Zn]	0.092	0.106	0.631
TX0078433	7/31/2019	001A	Zinc, total [as Zn]	0.0856	0.133	0.532
TX0078433	8/31/2019	001A	Zinc, total [as Zn]	0.146	0.348	0.8
TX0078433	9/30/2019	001A	Zinc, total [as Zn]	0.08	0.087	0.551
TX0078433	10/31/2019	001A	Zinc, total [as Zn]	0.08	0.0966	0.422
TX0078433	11/30/2019	001A	Zinc, total [as Zn]	0.078	0.138	0.474
TX0078433	12/31/2019	001A	Zinc, total [as Zn]	0.084	0.113	0.461
TX0078433	1/31/2020	001A	Zinc, total [as Zn]	0.065	0.085	0.413
TX0078433	2/29/2020	001A	Zinc, total [as Zn]	0.048	0.0953	0.253
TX0078433	3/31/2020	001A	Zinc, total [as Zn]	0.079	0.0998	0.488
TX0078433	4/30/2020	001A	Zinc, total [as Zn]	0.73	0.078	0.553
TX0078433	5/31/2020	001A	Zinc, total [as Zn]	0.074	0.0789	0.555
TX0078433	6/30/2020	001A	Zinc, total [as Zn]	0.069	0.0899	0.533
TX0078433	7/31/2020	001A	Zinc, total [as Zn]	0.067	0.073	0.506
TX0078433	8/31/2020	001A	Zinc, total [as Zn]	0.054	0.079	0.414
TX0078433	9/30/2020	001A	Zinc, total [as Zn]	0.046	0.0818	0.25
TX0078433	10/31/2020	001A	Zinc, total [as Zn]	0.064	0.119	0.258
TX0078433	11/30/2020	001A	Zinc, total [as Zn]	0.066	0.0866	0.253
TX0078433	12/31/2020	001A	Zinc, total [as Zn]	0.036	0.0651	0.18
TX0078433	1/31/2021	001A	Zinc, total [as Zn]	0.064	0.087	0.287
TX0078433	2/28/2021	001A	Zinc, total [as Zn]	0.083	0.09	0.339
TX0078433	3/31/2021	001A	Zinc, total [as Zn]	0.065	0.101	0.241
TX0078433	4/30/2021	001A	Zinc, total [as Zn]	0.118	0.379	0.456
TX0078433	5/31/2021	001A	Zinc, total [as Zn]	0.03	0.046	0.145
TX0078433	6/30/2021	001A	Zinc, total [as Zn]	0.03	0.04	0.2
TX0078433	7/31/2021	001A	Zinc, total [as Zn]	0.011	0.029	0.054
TX0078433	8/31/2021	001A	Zinc, total [as Zn]	0.029	0.0448	0.145
TX0078433	9/30/2021	001A	Zinc, total [as Zn]	0.032	0.064	0.168
TX0078433	10/31/2021	001A	Zinc, total [as Zn]	0.028	0.041	0.134
TX0078433	11/30/2021	001A	Zinc, total [as Zn]	0.077	0.123	0.372
TX0078433	12/31/2021	001A	Zinc, total [as Zn]	0.077	0.12	0.349
TX0078433	1/31/2022	001A	Zinc, total [as Zn]	0.165	0.267	0.771
TX0078433	2/28/2022	001A	Zinc, total [as Zn]	0.203	0.276	0.814
TX0078433	3/31/2022	001A	Zinc, total [as Zn]	0.109	0.241	0.518
TX0078433	4/30/2022	001A	Zinc, total [as Zn]	0.0346	0.0932	0.278
TX0078433	5/31/2022	001A	Zinc, total [as Zn]	0.0941	0.135	0.438
TX0078433	6/30/2022	001A	Zinc, total [as Zn]	0.0728	0.141	0.322
TX0078433	7/31/2022	001A	Zinc, total [as Zn]	0.0522	0.0701	0.191
TX0078433	8/31/2022	001A	Zinc, total [as Zn]	0.0447	0.0543	0.246
TX0078433	9/30/2022	001A	Zinc, total [as Zn]	0.0474	0.0592	0.242
TX0078433	10/31/2022	001A	Zinc, total [as Zn]	0.0488	0.0609	0.224
TX0078433	11/30/2022	001A	Zinc, total [as Zn]	0.0499	0.059	0.185
TX0078433	12/31/2022	001A	Zinc, total [as Zn]	0.0408	0.0596	0.154
TX0078433	1/31/2023	001A	Zinc, total [as Zn]	0.0273	0.0449	0.107
TX0078433	2/28/2023	001A	Zinc, total [as Zn]	0.039	0.0471	0.162
TX0078433	3/31/2023	001A	Zinc, total [as Zn]	0.029	0.0371	0.123
2 YEAR AVERAGE				0.06	0.11	0.28
5 YEAR AVERAGE				0.08	0.11	0.38

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (N=0;Y=1)
TX0078433	7/31/2018	SLDF	Compliance w/part 258 sludge requirement	1
TX0078433	7/31/2019	SLDF	Compliance w/part 258 sludge requirement	1
TX0078433	7/31/2020	SLDF	Compliance w/part 258 sludge requirement	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANLN TOT (DMT/y)
TX0078433	7/31/2018	SLDP	Annual amount of sludge land applied	0
TX0078433	7/31/2019	SLDP	Annual amount of sludge land applied	0

TX0078433	7/31/2020	SLDP	Annual amount of sludge land applied	0
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EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/yr)
TX0078433	7/31/2018	SLDP	Annual amt of sludge incinerated	0
TX0078433	7/31/2019	SLDP	Annual amt of sludge incinerated	0
TX0078433	7/31/2020	SLDP	Annual amt of sludge incinerated	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/yr)
TX0078433	7/31/2018	SLDP	Annual amt sludge disposed in landfill	32.11
TX0078433	7/31/2019	SLDP	Annual amt sludge disposed in landfill	2.19
TX0078433	7/31/2020	SLDP	Annual amt sludge disposed in landfill	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/yr)
TX0078433	7/31/2018	SLDP	Annual amt. sludge disposed surface unit	0
TX0078433	7/31/2019	SLDP	Annual amt. sludge disposed surface unit	0
TX0078433	7/31/2020	SLDP	Annual amt. sludge disposed surface unit	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/yr)
TX0078433	7/31/2018	SLDP	Annual amt sludge transported interstate	0
TX0078433	7/31/2019	SLDP	Annual amt sludge transported interstate	0
TX0078433	7/31/2020	SLDP	Annual amt sludge transported interstate	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/yr)
TX0078433	7/31/2018	SLDP	Annual sludge production, total	67.45
TX0078433	7/31/2019	SLDP	Annual sludge production, total	74.3
TX0078433	7/31/2020	SLDP	Annual sludge production, total	79.07

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL MAX (mg/kg)
TX0078433	7/31/2018	SLDP	Polychlorinated biphenyls [PCBs]	1
TX0078433	7/31/2019	SLDP	Polychlorinated biphenyls [PCBs]	1
TX0078433	7/31/2020	SLDP	Polychlorinated biphenyls [PCBs]	2.52

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				MO AV MN (pass=0,fail=1)
TX0078433	7/31/2018	SLDP	Toxicity characteristic leaching procedure	0
TX0078433	7/31/2019	SLDP	Toxicity characteristic leaching procedure	0
TX0078433	7/31/2020	SLDP	Toxicity characteristic leaching procedure	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/yr)
TX0078433	7/31/2018	SLDP	Ann. amt sludge disposed by other method	35.34
TX0078433	7/31/2019	SLDP	Ann. amt sludge disposed by other method	72.11
TX0078433	7/31/2020	SLDP	Ann. amt sludge disposed by other method	79.07

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				MX VALUE (met t/ha/yr)
TX0078433	7/31/2018	SLLA	Annual whole sludge application rate	NODI=C
TX0078433	7/31/2019	SLLA	Annual whole sludge application rate	NODI=C
TX0078433	7/31/2020	SLLA	Annual whole sludge application rate	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Arsenic, dry weight	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Arsenic, dry weight	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2020	SLLA	Arsenic, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Cadmium, dry weight	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Cadmium, dry weight	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2020	SLLA	Cadmium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C	NODI=C
TX0078433	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	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Copper, dry weight	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Copper, dry weight	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2020	SLLA	Copper, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Lead, sludge, total, dry weight [as Pb]	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Lead, sludge, total, dry weight [as Pb]	NODI=C	NODI=C	NODI=C
TX0078433	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	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Mercury, sludge, total, dry weight [as Hg]	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Mercury, sludge, total, dry weight [as Hg]	NODI=C	NODI=C	NODI=C
TX0078433	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	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Molybdenum, sludge, total, dry weight [as Mo]	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Molybdenum, sludge, total, dry weight [as Mo]	NODI=C	NODI=C	NODI=C
TX0078433	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	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Nickel, sludge, total, dry weight [as Ni]	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Nickel, sludge, total, dry weight [as Ni]	NODI=C	NODI=C	NODI=C
TX0078433	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	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Selenium, dry weight	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Selenium, dry weight	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2020	SLLA	Selenium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0078433	7/31/2018	SLLA	Zinc, sludge, total, dry weight [as Zn]	NODI=C	NODI=C	NODI=C
TX0078433	7/31/2019	SLLA	Zinc, sludge, total, dry weight [as Zn]	NODI=C	NODI=C	NODI=C
TX0078433	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 #)
TX0078433	7/31/2018	SLLA	Pollutant table from 503.13	NODI=C
TX0078433	7/31/2019	SLLA	Pollutant table from 503.13	NODI=C
TX0078433	7/31/2020	SLLA	Pollutant table from 503.13	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				VALUE (alt #)
TX0078433	7/31/2018	SLLA	Description of pathogen option used	NODI=C
TX0078433	7/31/2019	SLLA	Description of pathogen option used	NODI=C
TX0078433	7/31/2020	SLLA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				VALUE (alt #)
TX0078433	7/31/2018	SLLA	Vector attraction reduction alternative used	NODI=C
TX0078433	7/31/2019	SLLA	Vector attraction reduction alternative used	NODI=C
TX0078433	7/31/2020	SLLA	Vector attraction reduction alternative used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				MX VALUE (state class)
TX0078433	7/31/2018	SLLA	Level of pathogen requirements achieved	NODI=C
TX0078433	7/31/2019	SLLA	Level of pathogen requirements achieved	NODI=C
TX0078433	7/31/2020	SLLA	Level of pathogen requirements achieved	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				MAXIMUM (MPN/g)
TX0078433	7/31/2018	SLLY	Fecal coliform	NODI=C
TX0078433	7/31/2019	SLLY	Fecal coliform	NODI=C
TX0078433	7/31/2020	SLLY	Fecal coliform	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				MAXIMUM (MPN/g)
TX0078433	7/31/2018	SLLY	Salmonella	NODI=C
TX0078433	7/31/2019	SLLY	Salmonella	NODI=C

TX0078433	7/31/2020	SLLY	Salmonella	NODI=C
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EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure
				ALLWCONC (mg/kg)	SINGSAMP (mg/kg)
TX0078433	7/31/2018	SLSA	Arsenic, dry weight	NODI=C	NODI=C
TX0078433	7/31/2019	SLSA	Arsenic, dry weight	NODI=C	NODI=C
TX0078433	7/31/2020	SLSA	Arsenic, dry weight	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				VALUE (acr)
TX0078433	7/31/2018	SLSA	Boundary areas	NODI=C
TX0078433	7/31/2019	SLSA	Boundary areas	NODI=C
TX0078433	7/31/2020	SLSA	Boundary areas	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure
				ALLWCONC (mg/kg)	SINGSAMP (mg/kg)
TX0078433	7/31/2018	SLSA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C
TX0078433	7/31/2019	SLSA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C
TX0078433	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 #)
TX0078433	7/31/2018	SLSA	Description of pathogen option used	NODI=C
TX0078433	7/31/2019	SLSA	Description of pathogen option used	NODI=C
TX0078433	7/31/2020	SLSA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure
				ALLWCONC (mg/kg)	SINGSAMP (mg/kg)
TX0078433	7/31/2018	SLSA	Nickel, total [as Ni]	NODI=C	NODI=C
TX0078433	7/31/2019	SLSA	Nickel, total [as Ni]	NODI=C	NODI=C
TX0078433	7/31/2020	SLSA	Nickel, total [as Ni]	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				MINIMUM (SU)
TX0078433	7/31/2018	SLSA	pH	NODI=C
TX0078433	7/31/2019	SLSA	pH	NODI=C
TX0078433	7/31/2020	SLSA	pH	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				VALUE (N=0,Y=1)
TX0078433	7/31/2018	SLSA	Unit w/liner/leachate collection system	NODI=C
TX0078433	7/31/2019	SLSA	Unit w/liner/leachate collection system	NODI=C
TX0078433	7/31/2020	SLSA	Unit w/liner/leachate collection system	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				VALUE (alt #)
TX0078433	7/31/2018	SLSA	Vector attraction reduction alternative used	NODI=C
TX0078433	7/31/2019	SLSA	Vector attraction reduction alternative used	NODI=C
TX0078433	7/31/2020	SLSA	Vector attraction reduction alternative used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				SINGSAMP (state class)
TX0078433	7/31/2018	SLSA	Level of pathogen requirements achieved	NODI=C
TX0078433	7/31/2019	SLSA	Level of pathogen requirements achieved	NODI=C
TX0078433	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.

Harris County Municipal Utility District No. 368, c/o Johnson Petrov LLP, 2929 Allen Parkway, Suite 3150, Houston, Texas 77019, has applied to the TCEQ to renew Texas Pollutant Discharge Elimination System No. WQ0012044001 (EPA I.D. No. TX0078433) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,600,000 gallons per day. The domestic wastewater treatment facility is located at 19744 1/2 Logan Briar Drive, Tomball, in Harris County, Texas 77375. The discharge route is from the plant site to Harris County Flood Control District (HCFCD) ditch M122-00-00, thence to Willow Creek, thence to Spring Creek in Segment No. 1008 of the San Jacinto River Basin. TCEQ received this application on February 6, 2023. The permit application will be available for viewing and copying at Texas Commission on Environmental Quality, Region 12, 5425 Polk Street, Suite H, Houston, 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=-95.597222,30.050833&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: _____


Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

Date: April 25, 2023

Municipal Permits Team

Thru: Colleen Cook, Pretreatment Team Leader

From:  Bridget Malone, Sr. Pretreatment Coordinator

Subject: Pretreatment program option for the TPDES Permit No WQ0012044001
Harris County Municipal Utility District No. 368 – Harris County MUD 368 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\12044-001memo.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 Harris County MUD 368 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

From: Michael B. Pfeil, Standards Implementation Team
MBP Water Quality Assessment Section
Water Quality Division

Date: April 12, 2023

Subject: Harris County MUD No. 368
Harris County MUD No. 368 WWTP
Permit No. WQ0012044001

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 29%, 38%, 51%, 68%, and 90%, with a critical dilution of 90%. 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 at a phase with a design flow of less than 1 MGD. Therefore, there is no WET testing history to review. WET testing will commence with 90 days of initial discharge from the final phase 1.275 MGD facility.

TCEQ Interoffice Memorandum


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 chronic WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With 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:  James E. Michalk, Water Quality Modeler
Water Quality Assessment Team
Water Quality Assessment Section

Date: April 11, 2023

Subject: Harris County Municipal Utility District No. 368
Wastewater Permit Renewal (WQ0012044001 / TX0078433)
Discharge to a tributary of Spring Creek, Segment No. 1008 of the San Jacinto River Basin

The referenced applicant is proposing to renew its permit authorizing the discharge of treated domestic wastewater to a tributary of Spring Creek (Segment No. 1008). The existing permit authorizes interim effluent flows of 0.90 MGD and 1.275 MGD and a final effluent flow of 1.60 MGD. **It is not clear from the application which phase the permittee is currently operating in.** The facility is located in Harris County.

This permit action is for renewal of an existing authorization. A dissolved oxygen modeling analysis was previously performed for this permit on January 18, 2018 by James E. Michalk. Applicable water body uses and criteria, proposed permitted flow conditions, and modeling analytical procedures pertaining to this discharge situation remain unchanged from the previous review. Therefore, the existing effluent sets of **10 mg/L CBOD₅, 3 mg/L Ammonia-Nitrogen, and 6.0 mg/L DO** for the **0.90 MGD** flow phase; **10 mg/L CBOD₅, 2 mg/L Ammonia-Nitrogen, and 5.0 mg/L DO** for the **1.275 MGD** flow phase; and **10 mg/L CBOD₅, 2 mg/L Ammonia-Nitrogen, and 6.0 mg/L DO** for the **1.60 MGD** flow phase are applicable to this permit. No additional modeling work was performed for the current permit action.

These effluent sets also satisfy the requirements of the Lake Houston Watershed Rule.

Segment No. 1008 is not currently listed on the State's inventory of impaired and threatened waters (the **2022** Clean Water Act Section 303(d) list).

One finalized Total Maximum Daily Load (TMDL) Project is available for this segment: *Fifteen Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston For Segment Numbers 1004E, 1008, 1008H, 1009, 1009C, 1009D, 1009E, 1010, and 1011* (Project No. 82). Addendums to the original Project No. 82 TMDL subsequently added additional assessment units to the original TMDL project.

The existing effluent limits have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The existing limits are contained in the approved WQMP.

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate
Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Perennial Stream

Applicant Name: Harris County MUD No. 368
 Permit Number, Outfall: 12044-001; Outfall 001
 Segment Number: 1008

Enter values needed for screening:	Data Source (edit if different)
QE - Average effluent flow	1.6 MGD
QS - Perennial stream harmonic mean flow	1.18 cfs
QE - Average effluent flow	2.4756 cfs
CA - TDS - ambient segment concentration	241 mg/L
CA - chloride - ambient segment concentration	47 mg/L
CA - sulfate - ambient segment concentration	10 mg/L
CC - TDS - segment criterion	450 mg/L
CC - chloride - segment criterion	100 mg/L
CC - sulfate - segment criterion	50 mg/L
CE - TDS - average effluent concentration	164 mg/L
CE - chloride - average effluent concentration	32.8 mg/L
CE - sulfate - average effluent concentration	11.9 mg/L

Note: Muni - use permitted average flow; Indu - use 2-year average of daily average

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)] / (QE + QS)$$

Preliminary Calculations	Load In River	Effluent Load	New Concentration	% Change In Ambient	% Change In Assim. Capacity
Parameter	QSCA	QECE	Equation 2		
TDS	284.38	405.993	188.86	-21.6	-24.9
Chloride	55.46	81.1986	37.38	-20.5	-18.1
Sulfate	11.8	29.4593	11.29	12.9	3.2

Note: do not copy Preliminary Calculations into Fact Sheet or Statement of Basis/Technical Summary

No further screening for TDS needed if:	188.86	≤	450
No further screening for chloride needed if:	37.38	≤	100
No further screening for sulfate needed if:	11.29	≤	50

If all of these equations are true, stop here and do not go on to the permit limits calculations.

Permit Limit Calculations

TDS

Calculate the WLA	WLA = $[(CC)(QE+QS) - (QS)(CA)] / QE$	549.62
Calculate the LTA	LTA = WLA * 0.93	511.15
Calculate the daily average	Daily Avg. = LTA * 1.47	751.39
Calculate the daily maximum	Daily Max. = LTA * 3.11	1589.67
Calculate 70% of the daily average	70% of Daily Avg. =	525.97
Calculate 85% of the daily average	85% of Daily Avg. =	638.68
No permit limitations needed if:	164 ≤	525.97
Reporting needed if:	164 >	525.97 but ≤ 638.68
Permit limits may be needed if:	164 >	638.68

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA = $[(CC)(QE+QS) - (QS)(CA)] / QE$	125.26
Calculate the LTA	LTA = WLA * 0.93	116.49
Calculate the daily average	Daily Avg. = LTA * 1.47	171.25
Calculate the daily maximum	Daily Max. = LTA * 3.11	362.30
Calculate 70% of the daily average	70% of Daily Avg. =	119.87
Calculate 85% of the daily average	85% of Daily Avg. =	145.56
No permit limitations needed if:	32.8 ≤	119.87
Reporting needed if:	32.8 >	119.87 but ≤ 145.56
Permit limits may be needed if:	32.8 >	145.56

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA = $[(CC)(QE+QS) - (QS)(CA)] / QE$	69.07
Calculate the LTA	LTA = WLA * 0.93	64.23
Calculate the daily average	Daily Avg. = LTA * 1.47	94.42
Calculate the daily maximum	Daily Max. = LTA * 3.11	199.76
Calculate 70% of the daily average	70% of Daily Avg. =	66.09
Calculate 85% of the daily average	85% of Daily Avg. =	80.26
No permit limitations needed if:	11.9 ≤	66.09
Reporting needed if:	11.9 >	66.09 but ≤ 80.26
Permit limits may be needed if:	11.9 >	80.26

No permit limitations needed for sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Intermittent Stream

Applicant Name: Harris County MUD No. 368
Permit Number, Outfall: 12044-001; Outfall 001
Segment Number: 1008

Enter values needed for screening:		Data Source (edit if different)
TDS CC - segment criterion - TDS	450 mg/L	2010 TSWQS, Appendix A
Cl CC - segment criterion - chloride	100 mg/L	2010 TSWQS, Appendix A
SO4 CC - segment criterion - sulfate	50 mg/L	2010 TSWQS, Appendix A
TDS CE - average effluent concentration - TDS	376 mg/L	Permit application
Cl CE - average effluent concentration - chloride	81 mg/L	Permit application
SO4 CE - average effluent concentration - sulfate	28 mg/L	Permit application

TDS Screening

The TDS screening value is determined by first calculating an initial TDS concentration, C_{TDS} , as follows:

$$C_{TDS} = (TDS\ CC / 500\ mg/L) * 2,500\ mg/L$$

Where:

- C_{TDS} = TDS concentration used to determine C_{sv} screening value
- TDS CC = TDS criterion at the first downstream segment
- 500 mg/L = the median TDS concentration in Texas streams
- 2,500 mg/L = the minimum TDS screening value

$$C_{TDS} = 2250\ mg/L$$

The next step is to use the initial C_{TDS} to set the actual TDS screening value, C_{sv} , using the following table:

If C_{TDS}	Then TDS C_{sv}
$\leq 2,500\ mg/L$	= 2,500 mg/L
$> 2,500\ mg/L$ but $\leq 6,000\ mg/L$	= C_{TDS}
$> 6,000\ mg/L$	= 6,000 mg/L

Some specific types of intermittent streams have alternative screening values (C_{sv}):

Specific Type of Intermittent Stream	If C_{TDS} is	Default C_{sv} =
Dry except for short-term flow in immediate response to rainfall.	$< 4,000\ mg/L$	4,000 mg/L
	$\geq 4,000\ mg/L$	C_{TDS}
Constructed ditch conveying stormwater and wastewater, considered water in the state.	$< 4,000\ mg/L$	4,000 mg/L
	$\geq 4,000\ mg/L$	C_{TDS}

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Intermittent Stream

Within 3 miles of tidal waters.	—	6,000 mg/L
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Once TDS C_{sv} is established, the next step is to compare the effluent TDS concentration, TDS C_e, to the screening value. Control measures, which may include effluent limitations, are considered for TDS if the effluent TDS is greater than the screening value.

Values needed for Screening		Data Source
TDS C _e - average effluent TDS concentration	376 mg/L	Permit application
TDS C _{sv} - TDS screening value	2500 mg/L	Determined above

No control measures needed if:	376	≤	2500
Consider control measures if:	376	>	2500

No control measures needed for TDS

Before establishing effluent limitations for TDS, review the "Final Evaluation and Additional Considerations for TDS" in the "Procedures to Implement the Texas Water Quality Standards." The specific circumstances may warrant an instream monitoring requirement or a source reduction plan rather than effluent limitations.

When effluent limitations are established in the permit, the daily average TDS limit is typically set equal to the TDS screening value. The daily maximum TDS limit is calculated as 2.12 times the daily average limit.

Total Dissolved Solids			
Daily Average	=		N/A mg/L
Daily Maximum	=		N/A mg/L

Chloride Screening

If TDS limits are necessary or there are concerns about chloride, additional screening can be performed for chloride. First calculate the screening value for chloride, Cl C_{sv}, as follows:

$$Cl\ C_{sv} = (TDS\ C_{sv} / TDS\ CC) * Cl\ CC$$

Where:

- Cl C_{sv} = chloride screening value
- TDS C_{sv} = TDS screening value
- TDS CC = TDS criterion at the first downstream segment
- Cl CC = chloride criterion at the first downstream segment

Cl C_{sv} = **555.55556** mg/L

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Intermittent Stream

Once the Cl Csv is established, the next step is to compare the effluent chloride concentration, Cl CE, to the screening value. Control measures, which may include effluent limitations, are considered for chloride if the effluent chloride is greater than the screening value.

Values needed for Screening		Data Source
Cl CE - average effluent chloride concentration	81 mg/L	Permit application
Cl Csv - chloride screening value	555.5556 mg/L	Determined above

No control measures needed if: 81 ≤ 555.5556
Consider control measures if: 81 > 555.5556

No control measures needed for chloride

Before establishing effluent limitations for chloride, review the "Final Evaluation and Additional Considerations for TDS" in the "Procedures to Implement the Texas Water Quality Standards." The specific circumstances may warrant an instream monitoring requirement or a source reduction plan rather than effluent limitations.

When effluent limitations are established in the permit, the daily average chloride limit is typically set equal to the chloride screening value. The daily maximum chloride limit is calculated as 2.12 times the daily average limit.

Chloride		
Daily Average	=	N/A mg/L
Daily Maximum	=	N/A mg/L

Sulfate Screening

If TDS limits are necessary or there are concerns about sulfate, additional screening can be performed for sulfate. First calculate the screening value for sulfate, SO₄ Csv, as follows:

$$\text{SO}_4 \text{ Csv} = (\text{TDS Csv} / \text{TDS CC}) * \text{SO}_4 \text{ CC}$$

Where:

- SO₄ Csv = sulfate screening value
- TDS Csv = TDS screening value
- TDS CC = TDS criterion at the first downstream segment
- SO₄ CC = sulfate criterion at the first downstream segment

$$\text{SO}_4 \text{ Csv} = 277.77778 \text{ mg/L}$$

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Intermittent Stream

Once the SO₄ C_{sv} is established, the next step is to compare the effluent sulfate concentration, SO₄ CE, to the screening value. Control measures, which may include effluent limitations, are considered for sulfate if the effluent sulfate is greater than the screening value.

Values needed for Screening		Data Source
SO ₄ CE - average effluent sulfate concentration	28 mg/L	Permit application
SO ₄ C _{sv} - sulfate screening value	277.77778 mg/L	Determined above

No control measures needed if:	28	≤	277.7778
Consider control measures if:	28	>	277.7778

No control measures needed for sulfate

Before establishing effluent limitations for sulfate, review the "Final Evaluation and Additional Considerations for TDS" in the "Procedures to Implement the Texas Water Quality Standards." The specific circumstances may warrant an instream monitoring requirement or a source reduction plan rather than effluent limitations.

When effluent limitations are established in the permit, the daily average sulfate limit is typically set equal to the sulfate screening value. The daily maximum sulfate limit is calculated as 2.12 times the daily average limit.

Sulfate		
Daily Average	=	N/A mg/L
Daily Maximum	=	N/A mg/L

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Brian Christman, Water Quality Assessment Team
Water Quality Assessment Section

Date: March 28, 2023

Subject: Harris County Municipal Utility District No. 368
Wastewater Permit No. WQ0012044001
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 Harris County Flood Control District ditch M122-00-00 within three miles of Willow Creek.

Segment No.	1008
Effluent Flow for Aquatic Life (MGD)	1.6 (Permitted)
Critical Low Flow [7Q2] (cfs) for intermittent	0
Critical Low Flow [7Q2] (cfs) for perennial	0.26
% Effluent for Acute Aquatic Life (ZID)	100
Effluent Flow for Human Health (MGD)	1.6 (Permitted)
Harmonic Mean Flow (cfs)	2.51

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 LOCATION¹

Outfall Number	Latitude	Longitude
001	30.051274 N	95.596863 W

¹ Latitude and Longitude values are approximations of the location for administrative purposes.

TEXTOX MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STREAM/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:	Harris County MUD No. 368
TPDES Permit No.:	WQ0012044001
Outfall No.:	001
Prepared by:	Melinda Luxemburg, P.E.
Date:	May 3, 2023

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	HCFCF ditch M122-00-00
Perennial Stream/River within 3 Miles:	Willow Creek
Segment No.:	1008
TSS (mg/L):	10
pH (Standard Units):	6.8
Hardness (mg/L as CaCO ₃):	48
Chloride (mg/L):	47
Effluent Flow for Aquatic Life (MGD):	1.6
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	90.50
% Effluent for Chronic Aquatic Life (Mixing Zone):	100
% Effluent for Acute Aquatic Life (ZID):	1.6
Effluent Flow for Human Health (MGD):	2.51
Harmonic Mean Flow (cfs) for perennial:	49.655
% Effluent for Human Health:	
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)	Water Effect Ratio (WER)	Source
Aluminum	N/A	N/A	N/A	1.00	1.00	Assumed
Arsenic	5.68	-0.73	89125.09	0.529	1.00	Assumed
Cadmium	6.60	-1.13	295120.92	0.253	1.00	Assumed
Chromium (total)	6.52	-0.93	389045.14	0.204	1.00	Assumed
Chromium (trivalent)	6.52	-0.93	389045.14	0.204	1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	1.00	Assumed
Copper	6.02	-0.74	190546.07	0.344	1.00	Assumed
Lead	6.45	-0.80	446683.59	0.183	1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	1.00	Assumed
Nickel	5.69	-0.57	131825.67	0.431	1.00	Assumed

Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	223872.11	0.309	1.00	Assumed	Assumed
Zinc	6.10	-0.70	251188.64	0.285	1.00	Assumed	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	FW Acute		FW Chronic		WLAa	WLAa	WLAc	LTAa	LTAc	Daily Avg.	Daily Max.
	Criterion	Criterion	Criterion	Criterion	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Aldrin	3.0	N/A	N/A	N/A	3.0	N/A	N/A	1.72	N/A	2.53	5.35
Aluminum	991	N/A	N/A	N/A	991	N/A	N/A	568	N/A	835	1766
Arsenic	340	150	643	313	643	313	368	241	355	751	751
Cadmium	4.2	0.148	16.6	0.64	16.6	0.64	9.5	0.50	0.73	1.54	1.54
Carbaryl	2.0	N/A	2.0	N/A	2.0	N/A	1.15	N/A	1.68	3.56	3.56
Chlordane	2.4	0.004	2.4	0.0044	2.4	0.0044	1.38	0.0034	0.0050	0.0106	0.0106
Chlorpyrifos	0.083	0.041	0.083	0.045	0.083	0.045	0.048	0.035	0.051	0.108	0.108
Chromium (trivalent)	312	41	1527	220	1527	220	875	169	249	526	526
Chromium (hexavalent)	15.7	10.6	15.7	11.7	15.7	11.7	9.00	9.0	13.2	28.0	28.0
Copper	7.1	5.1	20.7	16.2	20.7	16.2	11.8	12.5	17.4	37	37
Cyanide (free)	45.8	10.7	45.8	11.8	45.8	11.8	26.2	9.1	13.4	28.3	28.3
4,4'-DDT	1.1	0.001	1.1	0.0011	1.1	0.0011	0.630	0.0009	0.0013	0.0026	0.0026
Demeton	N/A	0.1	N/A	0.111	N/A	0.111	N/A	0.085	0.125	0.265	0.265
Diazinon	0.17	0.17	0.17	0.188	0.17	0.188	0.097	0.145	0.143	0.303	0.303
Dicofol [Kelthane]	59.3	19.8	59.3	21.9	59.3	21.9	34.0	16.8	24.8	52.4	52.4
Dieldrin	0.24	0.002	0.24	0.0022	0.24	0.0022	0.138	0.0017	0.0025	0.0053	0.0053
Diuron	210	70	210	77	210	77	120	60	88	185	185
Endosulfan I (alpha)	0.22	0.056	0.22	0.062	0.22	0.062	0.126	0.048	0.070	0.148	0.148
Endosulfan II (beta)	0.22	0.056	0.22	0.062	0.22	0.062	0.126	0.048	0.070	0.148	0.148
Endosulfan sulfate	0.22	0.056	0.22	0.062	0.22	0.062	0.126	0.048	0.070	0.148	0.148
Endrin	0.086	0.002	0.086	0.0022	0.086	0.0022	0.049	0.0017	0.0025	0.0053	0.0053
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.011	N/A	0.011	N/A	0.009	0.013	0.026	0.026
Heptachlor	0.52	0.004	0.52	0.0044	0.52	0.0044	0.298	0.0034	0.0050	0.0106	0.0106
Hexachlorocyclohexane (gamma) [Lindane]	1.126	0.08	1.126	0.088	1.126	0.088	0.645	0.068	0.100	0.212	0.212
Lead	29	1.12	157	6.8	157	6.8	90	5.2	7.7	16	16
Malathion	N/A	0.01	N/A	0.011	N/A	0.011	N/A	0.009	0.013	0.026	0.026
Mercury	2.4	1.3	2.4	1.44	2.4	1.44	1.38	1.11	1.63	3.44	3.44
Methoxychlor	N/A	0.03	N/A	0.033	N/A	0.033	N/A	0.026	0.038	0.079	0.079
Mirex	N/A	0.001	N/A	0.0011	N/A	0.0011	N/A	0.0009	0.0013	0.0026	0.0026
Nickel	252	28.0	583	72	583	72	334	55	81	171	171
Nonylphenol	28	6.6	28	7.3	28	7.3	16.0	5.62	8.3	17.5	17.5
Parathion (ethyl)	0.065	0.013	0.065	0.014	0.065	0.014	0.037	0.011	0.016	0.034	0.034
Pentachlorophenol	7.1	5.5	7.1	6.0	7.1	6.0	4.1	4.7	6.0	12.7	12.7
Phenanthrene	30	30	30	33.2	30	33.2	17.2	25.5	25.3	53.5	53.5
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.0	0.015	2.0	0.015	1.15	0.012	0.018	0.037	0.037
Selenium	20	5	20	5.53	20	5.53	11.5	4.25	6.3	13.2	13.2

Silver	0.8	N/A	10.70	N/A	6.13	N/A	9.01	19.1
Toxaphene	0.78	0.0002	0.78	0.00022	0.447	0.00017	0.00025	0.00053
Tributyltin [TBT]	0.13	0.024	0.13	0.027	0.074	0.020	0.030	0.064
2,4,5 Trichlorophenol	136	64	136	71	77.9	54.5	80	169
Zinc	63	63	221	246	127	190	186	394

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	Water and Fish Only		Incidental		WLAh (µg/L)	LTAh (µg/L)	Daily Avg. (µg/L)	Daily Max. (µg/L)
	Fish Criterion (µg/L)	Fish Only Criterion (µg/L)	Fish Criterion (µg/L)	Incidental Fish Criterion (µg/L)				
Acrylonitrile	1.0	115	1150		231.60	215.39	316.62	669.86
Aldrin	1.146E-05	1.147E-05	1.147E-04		2.31E-05	2.15E-05	3.16E-05	6.68E-05
Anthracene	1109	1317	13170		2652	2467	3626	7671
Antimony	6	1071	10710		2156.9	2005.9	2948.7	6238.4
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		1170.1	1088.2	1599.6	3384.2
Benzidine	0.0015	0.107	1.07		0.2155	0.2004	0.2946	0.6233
Benzo(a)anthracene	0.024	0.025	0.25		0.050	0.047	0.069	0.146
Benzo(a)pyrene	0.0025	0.0025	0.025		0.0050	0.0047	0.007	0.015
Bis(chloromethyl)ether	0.0024	0.2745	2.745		0.5528	0.5141	0.756	1.599
Bis(2-chloroethyl)ether	0.60	42.83	428.3		86.26	80.22	117.92	249.48
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5		15.2	14.1	20.8	44.0
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750		553.8	515.1	757.1	1602
Bromoform [Tribromomethane]	66.9	1060	10600		2135	1985	2918	6174
Cadmium	5	N/A	N/A		N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460		92.6	86.2	126.6	267.9
Chlordane	0.0025	0.0025	0.025		0.0050	0.0047	0.007	0.015
Chlorobenzene	100	2737	27370		5512	5126	7536	15943
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830		368.5	342.7	503.8	1065.9
Chloroform [Trichloromethane]	70	7697	76970		15501	14416	21192	44834
Chromium (hexavalent)	62	502	5020		1011	940	1382	2924
Chrysene	2.45	2.52	25.2		5.08	4.72	6.9	14.7
Cresols [Methylphenols]	1041	9301	93010		18731	17420	25608	54177
Cyanide (free)	200	N/A	N/A		N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02		0.0040	0.0037	0.0055	0.0116
4,4'-DDE	0.00013	0.00013	0.0013		0.00026	0.00024	0.00036	0.00076
4,4'-DDT	0.0004	0.0004	0.004		0.0008	0.0007	0.0011	0.0023
2,4'-D	70	N/A	N/A		N/A	N/A	N/A	N/A
Danitrol [Fenpropathrin]	262	473	4730		953	886	1302	2755
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4		8.539	7.941	11.674	24.70
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950		1198	1114	1638	3466
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990		6644	6179	9083	19216
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A		N/A	N/A	N/A	N/A

3,3'-Dichlorobenzidine	0.79	2.24	22.4	4.51	4.20	6.17	13.05
1,2-Dichloroethane	5	364	3640	733.1	681.8	1002.2	2120.2
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	110994.9	103225.2	151741.1	321030.5
Dichloromethane [Methylene Chloride]	5	13333	133330	26851.5	24971.9	36708.7	77662.7
1,2-Dichloropropane	5	259	2590	521.6	485.1	713.1	1508.6
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	239.66	222.88	327.6	693.2
Dicofol [Kelthane]	0.30	0.30	3	0.60	0.562	0.83	1.75
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.000040	0.000037	0.000055	0.000116
2,4-Dimethylphenol	444	8436	84360	16989	15800	23226	49138
Di-n-Butyl Phthalate	88.9	92.4	924	186	173	254	538
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.61E-07	1.49E-07	2.19E-07	4.64E-07
Endrin	0.02	0.02	0.2	0.040	0.037	0.055	0.116
Epichlorohydrin	53.5	2013	20130	4054	3770	5542	11725
Ethylbenzene	700	1867	18670	3760	3497	5140	10875
Ethylene Glycol	46744	1.68E+07	1.68E+08	33833764	31465400	46254138	97857394
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.00020	0.00019	0.00028	0.00058
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0006	0.0005	0.0008	0.0017
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0014	0.0013	0.0019	0.0040
Hexachlorobutadiene	0.21	0.22	2.2	0.443	0.412	0.606	1.281
Hexachlorocyclohexane (alpha)	0.0078	0.0084	0.084	0.017	0.016	0.023	0.049
Hexachlorocyclohexane (beta)	0.15	0.26	2.6	0.524	0.487	0.716	1.51
Hexachlorocyclohexane (gamma) [Lindane]	0.2	0.341	3.41	0.687	0.639	0.939	1.99
Hexachlorocyclopentadiene	10.7	11.6	116	23.4	21.7	31.9	68
Hexachloroethane	1.84	2.33	23.3	4.69	4.36	6.42	13.6
Hexachlorophene	2.05	2.90	29	5.84	5.43	7.98	16.9
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	32186	29933	44002	93093
Lead	1.15	3.83	38.3	42.2	39.2	57.6	122.0
Mercury	0.0122	0.0122	0.122	0.025	0.023	0.034	0.071
Methoxychlor	2.92	3.0	30	6.0	5.62	8.3	17.5
Methyl Ethyl ketone	13865	9.92E+05	9.92E+06	1997803	1857957	2731197	5778246
Methyl tert-butyl ether [MTBE]	15	10482	104820	21109.9	19632.2	28859.3	61056
Nickel	332	1140	11400	5322	4950	7276	15394
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	3772	3508	5157	10910
N-Nitrosodiethylamine	0.0037	2.1	21	4.229	3.933	5.782	12.232
N-Nitroso-di-n-Butylamine	0.119	4.2	42	8.458	7.866	11.564	24.46
Pentachlorobenzene	0.348	0.355	3.55	0.71	0.66	0.98	2.07
Pentachlorophenol	0.22	0.29	2.9	0.584	0.543	0.80	1.69
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0013	0.0012	0.0018	0.0037
Pyridine	23	947	9470	1907.2	1773.7	2607	5516
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	0.483	0.450	0.66	1.40
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	53.07	49.35	72.55	153.5
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	563.9	524.4	770.9	1631.0
Thallium	0.12	0.23	2.3	0.463	0.431	0.633	1.34

Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.022	0.021	0.030	0.064	0.064
2,4,5-TP [Silvex]	50	369	3690	743	691	1016	2149	2149
1,1,1-Trichloroethane	200	784354	7843540	1579622	1469048	2159501	4568740	4568740
1,1,2-Trichloroethane	5	166	1660	334.3	310.9	457.0	966.9	966.9
Trichloroethylene [Trichloroethene]	5	71.9	719	144.8	134.7	198.0	418.8	418.8
2,4,5-Trichlorophenol	1039	1867	18670	3760	3497	5140	10875	10875
THM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	33.230	30.904	45.43	96.11	96.11

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

Aquatic Life	70% of Daily Avg. (µg/L)	85% of Daily Avg. (µg/L)
Aldrin	1.77	2.15
Aluminum	584	710
Arsenic	248	302
Cadmium	0.51	0.62
Carbaryl	1.18	1.43
Chlordane	0.0035	0.0043
Chlorpyrifos	0.036	0.044
Chromium (trivalent)	174	211
Chromium (hexavalent)	9.26	11.2
Copper	12.2	14.8
Cyanide (free)	9.4	11.4
4,4'-DDT	0.0009	0.0011
Demeton	0.088	0.106
Diazinon	0.100	0.122
Dicofol [Kelthane]	17.3	21.1
Dieldrin	0.0018	0.0021
Diuron	61	74
Endosulfan I (alpha)	0.049	0.060
Endosulfan II (beta)	0.049	0.060
Endosulfan sulfate	0.049	0.060
Endrin	0.0018	0.0021
Guthion [Azinphos Methyl]	0.009	0.011
Heptachlor	0.0035	0.0043
Hexachlorocyclohexane (gamma) [Lindane]	0.070	0.085
Lead	5.4	6.5
Malathion	0.009	0.011
Mercury	1.14	1.38
Methoxychlor	0.026	0.032
Mirex	0.0009	0.0011

Nickel	57	69
Nonylphenol	5.78	7.0
Parathion (ethyl)	0.011	0.014
Pentachlorophenol	4.2	5.1
Phenanthrene	17.7	21.5
Polychlorinated Biphenyls [PCBs]	0.012	0.015
Selenium	4.38	5.32
Silver	6.31	7.66
Toxaphene	0.00018	0.00021
Tributyltin [TBT]	0.021	0.026
2,4,5 Trichlorophenol	56.0	68.0
Zinc	130	158

Human Health	70% of Daily Avg. (µg/L)	85% of Daily Avg. (µg/L)
Acrylonitrile	221.63	269.13
Aldrin	0.000022	0.000027
Anthracene	2538	3082
Antimony	2064.1	2506.4
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	1119.7	1359.7
Benzidine	0.2062	0.2504
Benzo(a)anthracene	0.048	0.059
Benzo(a)pyrene	0.0048	0.0059
Bis(chloromethyl)ether	0.5290	0.6424
Bis(2-chloroethyl)ether	82.54	100.23
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	14.6	17.7
Bromodichloromethane [Dichlorobromomethane]	530.0	643.6
Bromoform [Tribromomethane]	2043	2481
Cadmium	N/A	N/A
Carbon Tetrachloride	88.7	107.7
Chlordane	0.0048	0.0059
Chlorobenzene	5275	6405
Chlorodibromomethane [Dibromochloromethane]	352.7	428.3
Chloroform [Trichloromethane]	14834	18013
Chromium (hexavalent)	967	1175
Chrysene	4.86	5.90
Cresols [Methylphenols]	17925	21767
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0039	0.0047
4,4'-DDE	0.00025	0.00030
4,4'-DDT	0.0008	0.0009
2,4'-D	N/A	N/A

Danitol [Fenprothrin]	912	1107
1,2-Dibromoethane [Ethylene Dibromide]	8.172	9.923
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	1147	1392
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	6358	7720
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	4.32	5.24
1,2-Dichloroethane	701.5	851.8
1,1-Dichloroethylene [1,1-Dichloroethene]	106218.8	128979.9
Dichloromethane [Methylene Chloride]	25696.1	31202.4
1,2-Dichloropropane	499.2	606.1
1,3-Dichloropropene [1,3-Dichloropropylene]	229.34	278.5
Dicofol [Kelthane]	0.578	0.70
Dieldrin	0.000039	0.000047
2,4-Dimethylphenol	16258	19742
Di- <i>n</i> -Butyl Phthalate	178	216
Dioxins/Furans [TCDD Equivalents]	1.54E-07	1.87E-07
Endrin	0.039	0.047
Epichlorohydrin	3880	4711
Ethylbenzene	3598	4369
Ethylene Glycol	32377897	39316017
Fluoride	N/A	N/A
Heptachlor	0.00019	0.00023
Heptachlor Epoxide	0.0006	0.0007
Hexachlorobenzene	0.0013	0.0016
Hexachlorobutadiene	0.424	0.515
Hexachlorocyclohexane (<i>alpha</i>)	0.016	0.020
Hexachlorocyclohexane (<i>beta</i>)	0.501	0.608
Hexachlorocyclohexane [<i>gamma</i>] [Lindane]	0.657	0.798
Hexachlorocyclopentadiene	22.4	27.1
Hexachloroethane	4.49	5.45
Hexachlorophene	5.59	6.79
4,4'-Isopropylidenediphenol [Bisphenol A]	30801	37402
Lead	40.4	49.0
Mercury	0.024	0.029
Methoxychlor	5.78	7.0
Methyl Ethyl Ketone	1911838	2321517
Methyl tert-butyl ether [MTBE]	20201.5	24530.4
Nickel	5093	6185
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	3610	4383
N-Nitrosodiethylamine	4.047	4.915
N-Nitroso-di- <i>n</i> -Butylamine	8.094	9.829
Pentachlorobenzene	0.68	0.83
Pentachlorophenol	0.559	0.679
Polychlorinated Biphenyls [PCBs]	0.0012	0.0015
Pyridine	1825.1	2216.2

Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.463	0.562
1,1,2,2-Tetrachloroethane	50.78	61.67
Tetrachloroethylene [Tetrachloroethylene]	539.6	655.3
Thallium	0.443	0.538
Toluene	N/A	N/A
Toxaphene	0.021	0.026
2,4,5-TP [Silvex]	711	864
1,1,1-Trichloroethane	1511651	1835576
1,1,2-Trichloroethane	319.9	388.5
Trichloroethylene [Trichloroethene]	138.6	168.3
2,4,5-Trichlorophenol	3598	4369
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	31.800	38.614

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section
Water Quality Division

From: Jeff Paull, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: March 23, 2023

Subject: Harris County MUD No. 368; Permit No. WQ0010244-001
Renewal; Application Received: 2/6/2023

The discharge route for the above referenced permit is to Harris County Flood Control District (HCFCD) ditch M122-00-00, thence to Willow Creek, thence to Spring Creek in Segment 1008 of the San Jacinto River 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 1008 are primary contact recreation, public water supply, 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 30 Texas Administrative Code §307.4(h) and (l) of the 2018 Texas Surface Water Quality Standards and the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010). Based on a receiving water assessment and/or other 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.

HCFCD ditch M122-00-00; minimal aquatic life use; 2.0 mg/L dissolved oxygen.
Willow Creek; high aquatic life use; 5.0 mg/L dissolved oxygen.

Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Erin E. Chancellor, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 23, 2023

Mrs. Vonda Riley
Project Administrator
IDS Engineering Group
13430 Northwest Freeway, Suite 700
Houston, Texas 77040

RE: Declaration of Administrative Completeness
Applicant Name: Harris County Municipal Utility District No. 368
(CN600737621)
Permit No.: WQ0012044001 (EPA I.D. No. TX0078433)
Site Name: Harris County MUD 368 WWTP (RN102080553)
Type of Application: Renewal

Dear Mrs. Riley:

The executive director has declared the above referenced application, received on February 6, 2023 administratively complete on March 23, 2023.

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 Abesha Michael at (512) 239-4912.

Sincerely,



Jennifer E. Bowers, Section Manager
Water Quality Division Support
Office of Water
Texas Commission on Environmental Quality

JEB/ahm

Enclosures

bcc: TCEQ Region 12, Water Program Manager

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 RENEWAL

PERMIT NO. WQ0012044001

APPLICATION. Harris County Municipal Utility District No. 368, c/o Johnson Petrov LLP, 2929 Allen Parkway, Suite 3150, Houston, Texas 77019, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012044001 (EPA I.D. No. TX0078433) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,600,000 gallons per day. The domestic wastewater treatment facility is located at 19744 1/2 Logan Briar Drive, Tomball, in Harris County, Texas 77375. The discharge route is from the plant site to a Harris County Flood Control District ditch; thence to Willow Creek; thence to Spring Creek. TCEQ received this application on February 6, 2023. The permit application will be available for viewing and copying at Texas Commission on Environmental Quality, Region 12, 5425 Polk Street, Suite H, Houston, 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=-95.597222,30.050833&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.** TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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

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

AGENCY CONTACTS AND INFORMATION. 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 Harris County Municipal Utility District No. 368 at the address stated above or by calling Mr. Kameron Pugh, P.E., District Engineer, IDS Engineering Group, at 832-590-7187.

Issuance Date: March 23, 2023



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: _____

MC-105 Attn: Notice Team
P.O. BOX 13087
AUSTIN, TX 78711-3087

Applicant Name: Harris County
Municipal Utility District No. 368
 Permit No.: WQ0012044001

STATE OF TEXAS §
COUNTY OF _____ §

My Commission Expires _____

TCEQ-OFFICE OF THE CHIEF CLERK

MC-105 Attn: Notice Team
P.O. BOX 13087
AUSTIN, TX 78711-3087

Applicant Name: Harris County
Municipal Utility District No. 368
Permit No.: WQ0012044001

**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 _____

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0012044001

SOLICITUD. Harris County Municipal Utility District No. 368, c/o Johnson Petrov, LLP, 2929 Allen Parkway, Suite 3150, Houston, Texas 77019, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0012044001 (EPA I.D. No. TX0078433) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 1,600,000 galones por día. La planta está ubicada 19744 1/2 Logan Briar Drive, Tomball, en el Condado de Harris, Texas. La ruta de descarga es del sitio de la planta a una zanja del Distrito de Control de Inundaciones del Condado de Harris; de allí a Willow Creek; de allí a Spring Creek. La TCEQ recibió esta solicitud el February 6, 2023. La solicitud para el permiso estará disponible para leerla y copiarla en la Comisión de Calidad Ambiental del Estado de Texas (TCEQ), Region 12, 5425 Polk Street, Suite H, Houston, Texas, 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=-95.597222,30.050833&level=18>

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

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

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

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

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

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

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

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

solicitudes deben ser presentadas electrónicamente vía

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

También se puede obtener información adicional del Harris County Municipal Utility District No. 368 a la dirección indicada arriba o llamando a Señor Kameron Pugh, P.E., District Engineer, IDS Engineering Group, al 832-590-7187.

Fecha de emission: 23 de marzo de 2023

Abesha Michael

From: Audrey Anderson (IDS) <AAnderson@idseg.com>
Sent: Wednesday, February 15, 2023 8:42 AM
To: Abesha Michael
Cc: Kameron Pugh (IDS); ajohnson@johnsonpetrov.com
Subject: Application to Renew Permit No. WQ0012044001 - Response to NOD
Attachments: 02-15-2023 Scan of NOD Response.pdf; Municipal TPDES and TLAP PLS Form (Spanish).docx; PLS English.docx; Municipal Discharge Renewal Spanish NORI.docx

Good Morning Abesha,

Please see the attached response to your comments dated February 10, 2023. If you have any questions or comments, please reach out to me at this email or call me at 832-590-7208.

Thanks,



Audrey Anderson
Design Engineer

13430 Northwest Freeway, Suite 700, Houston, Texas 77040

Main: 713.462.3178 | Direct: 832.590.7208

AAnderson@idseg.com

[Website](#) | [Facebook](#) | [LinkedIn](#)

TxEng Firm 2726 | TxEnv Firm 10310700

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February 15, 2023

Mr. Abesha H. Michael
Texas Commission on Environmental Quality
Applications Review and Processing Team (MC 148)
Water Quality Division
12100 Park 35 Circle
Austin, TX 78753

Reference: Application to Renew Permit No. WQ0012044001 (EPA I.D. No. TX78433)
Harris County Municipal Utility District No. 368 (CN600737621)
Regulated Entity Number: RN102080553
IDS Project No. 0456-134-03

Dear Mr. Abesha,

Please find enclosed one (1) original and two (2) copies of our complete response to your comments of February 10, 2023 (attached). Attachments for the additional information requested are enclosed where applicable.

Administrative Completeness Review Comments:

Comment No. 1 – 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.

Response: In the second line of the paragraph given please change "Petrove" to "Petrov". Otherwise, the portion of the NORI is correct.

Comment No. 2 – Please use the attached Plain Language Summary (PLS) Template to provide a plain language summary in English. Please provide the PLS in a Microsoft Word document.

Response: Please see the attached English version of the Plain Language Summary (PLS) in a Microsoft Word document.

Comment No. 3 – Section 8, Item E, No. 5 of Administrative Report 1.0 indicates that public notices in Spanish are required. After confirming the portion of the NORI contained in this letter 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.

Response: Please see the attached translated Spanish NORI in a Microsoft Word document.

Comment No. 4 – Section 8, Item E, Item No. 5 of Administrative Report 1.0 indicates that public notices in Spanish are required. Please use the attached PLS Spanish template to translate the plain language summary into Spanish. Please provide the translated Spanish PLS in a

Mr. Abesha H. Michael
Texas Commission on Environmental Quality
Water Quality Division (MC 148)
February 15, 2023
Page 2

Microsoft Word document.

Response: Please see the attached Spanish translated version of the Plain Language Summary (PLS) in a Microsoft Word document.

If you have any further questions or need additional information, please do not hesitate to call me at (832) 590-7208 or via email at AAnderson@idseg.com

Respectfully,



Audrey Anderson
Design Engineer

Enclosure(s)

Attachment 1 – Municipal TPDES and TLAP Plain Language Summary (English)
Attachment 2 – Municipal TPDES and TLAP Plain Language Summary (Spanish)
Attachment 3 – Municipal Discharge/Disposal Spanish NORI

X:\0300-0500\0400\045613403 HCMUD 368 TPDES Renewal 2023\Permits\NOD\TCEQ NOD Response Transmittal Letter.docx

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.

Harris County Municipal Utility District No. 368 (CN600737621) operates Harris County Municipal Utility District No. 368 Wastewater Treatment Facility, RN102090553. a single stage nitrification activated sludge processing plant. The facility is located 19744 ½ Logan Briar Dr., in Tomball, Harris County, Texas 77375.

This Permit is for a renewal to discharge 1,275,000 gallons per day of treated wastewater.

Discharges from the facility are expected to contain pollutants such as carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Domestic wastewater is treated by a single nitrification activated sludge process. Wastewater pumped from the lift station will enter into the headworks consisting of a drum screen and a grit separator. From the headworks, the wastewater will flow through two (2) aeration basins, two (2) 52-foot diameter clarifiers, and two (2) chlorine contact basins. Clarified effluent will flow from the plant to the outfall via a 24-inch pipe into Harris County Flood Control District (HCFCD) ditch M122-00-00; thence to Willow Creek; thence to Spring Creek in Segment No. 1008 of the San Jacinto River Basin. The sludge will continue through two (2) aerobic digester basins, one (1) digester pre-mix basin and one (1) sludge holding basin, then will be disposed of by a contract hauler.

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

AGUAS RESIDUALES DOMÉSTICAS

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

El Distrito de Servicios Públicos Municipales del Condado de Harris No. 368 (CN600737621) opera la Instalación de Tratamiento de Aguas Residuales del Distrito Municipal de Servicios Públicos del Condado de Harris No. 368, RN102090553. una planta de procesamiento de lodos activados por nitrificación de una etapa. La instalación está ubicada 19744 1/2 Logan Briar Dr., en Tomball, Condado de Harris, Texas 77375.

Este permiso es para una renovación para descargar 1,275,000 galones por día de aguas residuales tratadas.

Se espera que las descargas de la instalación contengan contaminantes como la demanda bioquímica de oxígeno carbonoso (CBOD5), sólidos suspendidos totales (TSS), nitrógeno amoníaco (NH3-N) y Escherichia coli. Las aguas residuales domésticas se tratan mediante un único proceso de lodo activado por nitrificación. Las aguas residuales bombeadas desde la estación de bombeo entrarán en las obras de cabecera que consisten en una pantalla de tambor y un separador de arena. Desde las cabeceras, las aguas residuales fluirán a través de dos (2) cuencas de aireación, dos (2) clarificadores de 52 pies de diámetro y dos (2) cuencas de contacto con cloro. El efluente clarificado fluirá desde la planta hasta el emisario a través de una tubería de 24 pulgadas hacia la zanja M122-00-00 del Distrito de Control de Inundaciones del Condado de Harris (HCFCD); de allí a Willow Creek; de allí a Spring Creek en el Segmento No. 1008 de la Cuenca del Río San Jacinto. El lodo continuará a través de dos (2) cuencas digestores aeróbicas, una (1) cuenca de premezcla digestora y una (1) cuenca de retención de lodos, luego será eliminada por un transportista contratado.

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ00_____

SOLICITUD. Harris County Municipal Utility District No. 368, 2929 Allen Parkway c/o Johnson Petrov, LLP, Suite 3150, Houston, Texas 77019, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0012044001 (EPA I.D. No. TX0078433) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 1,600,000 galones por día. La planta está ubicada 19744 1/2 Logan Briar Drive, Tomball, en el Condado de Harris, Texas. La ruta de descarga es del sitio de la planta a una zanja del Distrito de Control de Inundaciones del Condado de Harris; de allí a Willow Creek; de allí a Spring Creek. La TCEQ recibió esta solicitud el February 6, 2023. La solicitud para el permiso estará disponible para leerla y copiarla en la Comisión de Calidad Ambiental del Estado de Texas (TCEQ), Region 12, 5425 Polk Street, Suite H, Houston, Texas, 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=-95.597222,30.050833&level=18>

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

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

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

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

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

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

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

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

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

También se puede obtener información adicional del Harris County Municipal Utility District
No. 368 a la dirección indicada arriba o llamando a Señor Kameron Pugh, P.E., District
Engineer, IDS Engineering Group, al 832-590-7187.

Fecha de emission:

Abesha Michael

From: Abesha Michael
Sent: Friday, February 10, 2023 4:26 PM
To: Kameron Pugh (IDS)
Cc: ajohnson@johnsonpetrov.com
Subject: FW: Application to Renew Permit No. WQ0012044001, Harris County Municipal Utility District No. 368 - Notice of Deficiency Letter
Attachments: WQ0012044001 NOD Letter.pdf; Municipal Discharge Renewal Spanish NORI.docx; Municipal TPDES and TLAP PLS Form.docx; Municipal TPDES and TLAP PLS Form (Spanish).docx

From: Abesha Michael
Sent: Friday, February 10, 2023 4:11 PM
To: Kameron Pugh (IDS) <KPugh@idseg.com>
Cc: ajohnson@johnsonpetrov.com
Subject: Application to Renew, to Amend, for Proposed - if new Permit No. WQ0012044001, Harris County Municipal Utility District No. 368 - Notice of Deficiency Letter

Dear Mr. Pugh:

The attached Notice of Deficiency (NOD) letter dated May 2, 2023, requests additional information needed to declare the application administratively complete. Please email and mail an original and two copies (with two copies of the cover letter) of the complete response to my attention by May 16, 2023.

Please Note: the new alternative or plain language requirements addressed in the attached letter include new items that can either be sent by email attachment or included on a USB drive if physical copies of the response are mailed.

Please let me know if you have any questions, and please take care and fill out our online customer satisfaction survey at your convenience. Thank you for your attention to this matter.

Thank you,



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

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

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Erin E. Chancellor, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 10, 2023

VIA EMAIL

Mr. Kameron Pugh, P.E.
District Engineer
IDS Engineering Group
13430 Northwest Freeway, Suite 700
Houston, Texas 77040

Re: Application to Renew Permit No. WQ0012044001 (EPA I.D. TX TX0078433)
Issued to Harris County Municipal Utility District No. 368
CN600737621, RN102080553

Dear Mr. Pugh:

We have received the 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. Please submit one original and two copies (including a cover letter) of the complete response.

1. 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. Harris County Municipal Utility District No. 368, 2929 Allen Parkway c/o Johnson Petrove LLP, Suite 3150, Houston, Texas 77019, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012044001 (EPA I.D. No. TX0078433) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,600,000 gallons per day. The domestic wastewater treatment facility is located at 19744 ½ Logan Briar Drive, Tomball, in Harris County, Texas 77375. The discharge route is from the plant site to a Harris County Flood Control District ditch; thence to Willow Creek; thence to Spring Creek. TCEQ received this application on February 6, 2023. The permit application will be available for viewing and copying at Texas Commission on Environmental Quality, Region 12, 5425 Polk Street, Suite H, Houston, Texas prior to the date it 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=-95.597222,30.050833&level=18>

Further information may also be obtained from Harris County Municipal Utility District No. 368 at the address stated above or by calling Mr. Kameron Pugh, P.E., District Manager, IDS Engineering Group, at 832-590-7187.

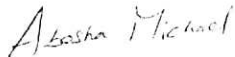
Mr. Kameron Pugh, P.E.
Page 2
February 10, 2023
Permit No. WQ0012044001

New rule requirements under Title 30 Texas Administrative Code (TAC) Chapter 39 relating to public notices have been implemented. The deficiencies listed below are new items that need to be provided to meet the alternative language requirements.

2. Please use the attached Plain Language Summary (PLS) Template to provide a plain language summary in English. Please provide the PLS in a **Microsoft Word document**.
3. Section 8, Item E.5 on page 8 of Administrative Report 1.0 indicates that public notices in Spanish are required. Please use the attached PLS Spanish template to translate the plain language summary into Spanish. Please provide the translated Spanish PLS in a **Microsoft Word document**.
4. Section 8, Item E.5 on page 8 of Administrative Report 1.0 indicates that public notices in Spanish are required. After confirming the portion of the English NORI contained in item No. 1 of this letter 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 February 26, 2023. If you should have any questions, please do not hesitate to call me at (512) 239-4912.

Sincerely,



Abesha H. Michael
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

Enclosure(s)

Attachment 1 - Municipal TPDES and TLAP PLS Form
Attachment 2 - Municipal TPDES and TLAP PLS Form (Spanish)
Attachment 3 - Municipal Discharge/Disposal Spanish NORI

cc: Mr. Andrew Johnson, Attorney, Johnson Petrov LLP, 2929 Allen Parkway, Suite 3150,
Houston, Texas 77019

bcc: TCEQ Region 12, Water Program Manager

CHECK LIST FOR ADMIN REVIEW OF MUNICIPAL APPLICATION FOR PERMIT

Permit No. WQ0012044001	EPA ID. TX0078433	MGD 1.6
CN 600737621	RN 102080553	County: Harris Region No.12
Facility: <input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor	App Recd Date: 02/06/2023	Permit Expiration Date: 07/16/2023
<input type="checkbox"/> Inactive <input type="checkbox"/> Active	Segment No. 1008	

Note: A minor facility is generally one in which the final flow is less than 1.0 MGD.

Application Review Date: 03/10/2023

- ☒ For new and major amendment applications that propose surface water discharge, the standards review for RWA comments is included.
- ☒ Coastal Zone sheet is included.

Fees or Penalties Owed: ☒ No ☐ Yes Amount Owed: N/A

SECTION 1 APPLICATION FEES

Application Fees: The appropriate item checked, **and** payment verified in Basis2 Report. Note: copies of checks should be removed and shredded.

Municipal Fees

Proposed/Final Phase Flow	New/Major Amend.	Renewals	Minor Amendment or Modification <i>without</i> Renewal
< .05 MGD	<input type="checkbox"/> \$350.00	<input type="checkbox"/> \$315.00	<input type="checkbox"/> \$150.00 (for any flow)
≥ .05 but < .10 MGD	<input type="checkbox"/> \$550.00	<input type="checkbox"/> \$515.00	
≥ .10 but < .25 MGD	<input type="checkbox"/> \$850.00	<input type="checkbox"/> \$815.00	
≥ .25 but < .50 MGD	<input type="checkbox"/> \$1,250.00	<input type="checkbox"/> \$1,215.00	
≥ .50 but < 1.0 MGD	<input type="checkbox"/> \$1,650.00	<input type="checkbox"/> \$1,615.00	
≥ 1.0 MGD	<input type="checkbox"/> \$2,050.00	<input checked="" type="checkbox"/> \$2,015.00	

SECTION 2 TYPE OF APPLICATION

- ☒ The Type of application is marked
- ☐ Reason for amendment or modification (if applicable). Also, check Tech. Report 1.1 Section 4 on page 3 (Unbuilt Phases) and Section 1.A on page 20 (Justification of permit need).

SECTION 3 FACILITY OWNER (APPLICANT) AND CO-APPLICANT

- ☒ Legal name of applicant is listed (*the owner of the facility must apply for the permit*)
- ☐ 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 Review: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 – verify with SOS
- ☐ Texas State Tax ID is provided – verify with Texas 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 form is required for each individual.

☒ **Utility District:** Check iWDD to verify that district is not dissolved (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, a copy of the partnership agreement is provided by the applicant. 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.

☐ 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 USPS website/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 programs- if not listed, add it

Section IV – Preparer Information

☒ Name, title, telephone number, and email address is provided

Section V – Authorized Signature

☒ Company name, title, printed name, phone number, signature, and date provided

SECTION 4 APPLICATION CONTACT INFORMATION

☒ Administrative and Technical contact name, address, electronic information provided

SECTION 5 PERMIT CONTACT INFORMATION

☒ Permit (2) contact names, addresses, electronic information provided

SECTION 6 BILLING INFORMATION

- ☒ Billing contact name, address, electronic information provided

SECTION 7 REPORTING INFORMATION

- ☒ DMR/MER contact name, address, electronic information provided

SECTION 8 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 YES - Spanish
- ☐ Public Involvement Plan Form (PIP) – For a new or major amendment, they have provided the PIP form.

SECTION 9 REGULATED ENTITY and PERMITTED SITE INFORMATION

- ☒ Regulated Entity No. is listed. If not, it's 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. OR, landowner can apply as a co-permittee. Lease must identify property by legal description or map.

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 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 DISPOSAL (TLAP) 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 Indian land (If yes, we do not have permit authority.)
- ☒ For permits that allow sewage disposal the location description is adequately described. For an already-existing permit, check to see that the location has not changed
- ☒ Must indicate 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 is located or the effluent disposal site 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 of discharge ☐ highlighted discharge route for three miles downstream or until it reaches a classified segment ☒ scale ☐ effluent disposal site(s) ☐ pond(s) ☐ sludge disposal/land application site ☒ an area of not less than one mile in all directions of the site.

All original or equivalent full-sized maps must show:

- ☐ Color map ☐ Clear contour lines ☐ Upper left corner must identify map as USGS Department of the Interior Geological Survey ☐ Lower left corner, datum & project information ☐ Bottom, magnetic declination ☐ Bottom, must show scale ☐ Bottom, identify contour intervals ☐ Bottom, national map accuracy std. statement ☐ 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.**

Owner Co-Permittee

- | | | |
|-------------------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | City - Elected official or principle executive officer of the city may be public works director. |
| <input type="checkbox"/> | <input type="checkbox"/> | Individual: only the individual signs for himself/herself. |
| <input type="checkbox"/> | <input type="checkbox"/> | Partnership: General Partner or exec officer |
| <input type="checkbox"/> | <input type="checkbox"/> | Corporation: at least level of VP (CEO, Chairman of Board, Secretary can be equiv. to V.P., Member or General Manager for LLC, Manager of one or more manufacturing, production, or operating facilities employing more than 250 persons - refer to 30 TAC 305.44) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Utility District: at least the level of vice president, on Board of Directors or District Manager |

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Water Authority: Regional managers. |
| <input type="checkbox"/> | <input type="checkbox"/> | Independent School Districts: at least level of the Assistant Superintendent or board members. |
| <input type="checkbox"/> | <input type="checkbox"/> | Governmental Agencies: Division Directors or Regional Directors. |
| <input type="checkbox"/> | <input type="checkbox"/> | Trust: The trustee that has been identified in the trust agreement. |
| <input type="checkbox"/> | <input type="checkbox"/> | 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, if applicable.

Public Involvement Plan (PIP)

For 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 listed over 5% in items d and e will require alternative language notice and plain language summary.

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, 1/2 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 1/2 mile up & downstream and those property owners across the lake along the shore line that fall within a 1/2 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 is clearly identified on the map.
- ☐ The boundaries of all landowners surrounding the disposal site.
- ☐ Cross-referenced list of landowners is provided.
- ☐ Disk or four sets of labels were provided
- ☐ Source of landowners' info was provided.
- ☐ Provided response regarding permanent school fund land. If information filled out on General Land Office, then indicate so on the contact sheet.

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

☒ SPIF is provided - **TPDES only.**

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:

☒ 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 ☐ acreage application area ☐ 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 you need to check for the appropriate affected landowner requirements.

WHEN APPLICATION IS NOT ADMINISTRATIVELY COMPLETE:

- ☒ Complete NOD. See NOD SOP

WHEN APPLICATION IS ADMINISTRATIVELY COMPLETE:

- ☒ Complete NORI package. See NORI SOP
NORI not required for minor amendment. Complete the Routing and Contact (list "n/a" for item regarding person responsible for publication of the notice) Blue sheets only.

- ☒ Prepare SPIF forms (only for TPDES permits)
- ⑥ checked application type
 - ⑥ entered county name
 - ⑥ entered administrative completeness date
 - ⑥ ensured permit number is on form
 - ⑥ *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
- ⑥ check that the segment number (if known) is entered in receiving water body information.
 - ⑥ 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

Admin Complete PARIS Entry and Other Reminders

WQ Folder - Application Search

Application Summary Tab—verify application info

Admin Review Tab

- ☒ Admin Review Begin Date
- ☒ Admin Complete Date
- ☒ SPIF
- ☒ NORI

Public Participation Tab – No longer required to enter public notice details. See Katherine's email dated 3/30/2017.

CR Folder – RE Search

AI Detail Screen—verify facility info

Enter Contact Info – Contact List

- ☒ Owner
- ☒ Applicant
- ☒ Technical
- ☒ Billing
- ☒ MER (TLAP only)
- ☒ Remove CN affiliation for MER contact (TLAP and TPDES)
- ☒ Verify TX No. (EPA ID) is associated to CN

OTHER

- ☒ Copy notice, and labels if New and Major Amendment, to I/Drive
- ☒ Copy contact sheet to I/Drive
- ☒ SADDs – Application to Dept. of Health Services
- ☒ Email TXDOT if discharge is to a state highway right-of-way or roadside ditch.

Central Registry Internal Reporting

Main Query Page

Program Area Search

Additional ID Detail		Map It Copy Map It URL			
Additional ID Program:		WWPERMIT		Legacy System (Code): (WQ)	
Additional ID:		WQ0012044001		Status: ACTIVE	
Name:		HARRIS COUNTY MUD 368 WWTP		ID Type: PERMIT	
				Sec. Addn Id: TX0078433, EPA ID	
Physical Address:		19744 0.5 LOGAN BRIAR DR, TOMBALL, TX 77375 1785			
Description:					
County:		HARRIS		Region: REGION 12 - HOUSTON	
Nearest City:		TOMBALL		State: TX	
				Nearest Zip: 77375	
Latitude:		30° 3 min 3 sec (30.050833)		Longitude: 95° 35 min 50 sec (-95.597222)	

2 Records

Industry Types			
Classification System	Code	Name	Primary Flag
NAICS	221320	Sewage Treatment Facilities	Y
SIC	4952	Sewerage Systems	Y

1-1 of 1 Record

Site Classifications				
Program	Site Classification	Begin Date	End Date	CMS Min Freq Qty
WASTEWATER	DOMESTIC MINOR	01/1/1800	12/31/3000	0

1-1 of 1 Record

Customers			List All
CN Number	Name ▲	Role	
CN600737621	HARRIS COUNTY MUD 368	OWN	

1-1 of 1 Record

Issued To			
CN Number	Issued To Name	Start Date	View 'Issued To' History
CN600737621	Harris County Municipal Utility District 368	2018-07-16 00:00:00.0	View

Regulated Entity			
Reference Number:	RN102080553	Name:	THREE LAKES MUD 1 WWTP
Business Description:	DOMESTIC	Stand-Alone:	N

Location			
Address:	19744 1/2 LOGAN BRIAR DR, TOMBALL, TX 77375 1785		
Description:	THE WWTP IS LOCATED APPROX 1 MI E OF FM 279 AND 1200 FT S OF BOUDREAUX RD IN HARRIS COUNTY TX		
County:	HARRIS	Region:	REGION 12 - HOUSTON
Nearest City:	TOMBALL	State:	TX
		Nearest Zip:	77375
Latitude:	30° 3 min 0 sec (30.05)	Longitude:	95° 33 min 36 sec (-95.56)



Basis 2 A/R Outstanding Past Due Transactions Detail Report By Customer Name

MAR-22-23 06:30 AM

Customer Name: HARRIS CARMEN SUE

Account #: 0036648U

Debtcollpath Stage: UNCOL:EXHAUST

Calls:

UST	SC2506-002	LATE FEE FOR UST0620891	0000012638	10-FEB-05	10-MAR-05	\$.78
UST	SC2506-003	LATE FEE FOR UST0596420	0000012638	10-FEB-05	10-MAR-05	\$.78
UST	SC2506-005	LATE FEE FOR UST0546522	0000012638	10-FEB-05	10-MAR-05	\$.78
UST	SC2506-004	LATE FEE FOR UST0569926	0000012638	10-FEB-05	10-MAR-05	\$.78
UST	SC2507-002	LATE FEE FOR UST0620891	0000012638	10-MAR-05	10-APR-05	\$.78
UST	SC2507-003	LATE FEE FOR UST0596420	0000012638	10-MAR-05	10-APR-05	\$.78
UST	SC2507-004	LATE FEE FOR UST0569926	0000012638	10-MAR-05	10-APR-05	\$.78
UST	SC2507-005	LATE FEE FOR UST0546522	0000012638	10-MAR-05	10-APR-05	\$.78
UST	SC2507-006	LATE FEE FOR UST0514888	0000012638	10-MAR-05	10-APR-05	\$.78
UST	SC2507-007	LATE FEE FOR UST0487475	0000012638	10-MAR-05	10-APR-05	\$.78
UST	SC2507-008	LATE FEE FOR UST0453924	0000012638	10-MAR-05	10-APR-05	\$.78
UST	SC2507-001	LATE FEE FOR UST0644952	0000012638	10-MAR-05	10-APR-05	\$.78
UST	SC2508-007	LATE FEE FOR UST0487475	0000012638	11-APR-05	11-MAY-05	\$.78
UST	SC2508-006	LATE FEE FOR UST0514888	0000012638	11-APR-05	11-MAY-05	\$.78
UST	SC2508-005	LATE FEE FOR UST0546522	0000012638	11-APR-05	11-MAY-05	\$.78
UST	SC2508-004	LATE FEE FOR UST0569926	0000012638	11-APR-05	11-MAY-05	\$.78
UST	SC2508-003	LATE FEE FOR UST0596420	0000012638	11-APR-05	11-MAY-05	\$.78
UST	SC2508-002	LATE FEE FOR UST0620891	0000012638	11-APR-05	11-MAY-05	\$.78
UST	SC2508-008	LATE FEE FOR UST0453924	0000012638	11-APR-05	11-MAY-05	\$.78
UST	SC2508-001	LATE FEE FOR UST0644952	0000012638	11-APR-05	11-MAY-05	\$.78
UST	SC2509-008	LATE FEE FOR UST0453924	0000012638	10-MAY-05	10-JUN-05	\$.78
UST	SC2509-007	LATE FEE FOR UST0487475	0000012638	10-MAY-05	10-JUN-05	\$.78
UST	SC2509-006	LATE FEE FOR UST0514888	0000012638	10-MAY-05	10-JUN-05	\$.78
UST	SC2509-005	LATE FEE FOR UST0546522	0000012638	10-MAY-05	10-JUN-05	\$.78
UST	SC2509-003	LATE FEE FOR UST0596420	0000012638	10-MAY-05	10-JUN-05	\$.78
UST	SC2509-002	LATE FEE FOR UST0620891	0000012638	10-MAY-05	10-JUN-05	\$.78
UST	SC2509-004	LATE FEE FOR UST0569926	0000012638	10-MAY-05	10-JUN-05	\$.78
UST	SC2509-001	LATE FEE FOR UST0644952	0000012638	10-MAY-05	10-JUN-05	\$.78
UST	SC2510-007	LATE FEE FOR UST0487475	0000012638	09-JUN-05	09-JUL-05	\$.78
UST	SC2510-006	LATE FEE FOR UST0514888	0000012638	09-JUN-05	09-JUL-05	\$.78
UST	SC2510-005	LATE FEE FOR UST0546522	0000012638	09-JUN-05	09-JUL-05	\$.78
UST	SC2510-008	LATE FEE FOR UST0453924	0000012638	09-JUN-05	09-JUL-05	\$.78
UST	SC2510-004	LATE FEE FOR UST0569926	0000012638	09-JUN-05	09-JUL-05	\$.78
UST	SC2510-003	LATE FEE FOR UST0596420	0000012638	09-JUN-05	09-JUL-05	\$.78
UST	SC2510-001	LATE FEE FOR UST0644952	0000012638	09-JUN-05	09-JUL-05	\$.78
UST	SC2510-002	LATE FEE FOR UST0620891	0000012638	09-JUN-05	09-JUL-05	\$.78
UST	UST0667514	U'GROUND TANK FEE TANKS:FY06	0000012638	30-SEP-05	31-OCT-05	\$150.00
UST	UST0693534	U'GROUND TANK FEE TANKS:FY07	0000012638	30-SEP-06	31-OCT-06	\$150.00

Total of delinquent transactions (Account): \$2595.48

Total of delinquent transactions (Customer): \$2595.48

Customer Name: HARRIS CNTY OFFICE OF PUBLIC I

Account #: 0620091

Debtcollpath Stage:

Calls:

WTR	WTR0060535	ONSITE COUNCIL FE	FY22Q	0091202207	30-SEP-22	31-OCT-22	\$570.00
WTR	WTR0060536	ONSITE COUNCIL FE	FY22Q	0091202208	30-SEP-22	31-OCT-22	\$850.00
WTR	WTR0060534	ONSITE COUNCIL FE	FY22Q	0091202206	30-SEP-22	31-OCT-22	\$810.00
WTR	SC00311882	LATE FEE - NOV 2022			10-NOV-22	10-NOV-22	\$111.50
WTR	SC00313647	LATE FEE - DEC 2022			10-DEC-22	10-DEC-22	\$111.50
WTR	WTR0061224	ONSITE COUNCIL FE	FY23Q	0091202210	31-DEC-22	31-JAN-23	\$550.00
WTR	WTR0061223	ONSITE COUNCIL FE	FY23Q	0091202209	31-DEC-22	31-JAN-23	\$800.00
WTR	WTR0061225	ONSITE COUNCIL FE	FY23Q	0091202211	31-DEC-22	31-JAN-23	\$640.00
WTR	SC00316773	LATE FEE - JAN 2023			10-JAN-23	10-JAN-23	\$18.94
WTR	WTR0060534	COLLECTION COST RECOVERY			03-FEB-23	03-FEB-23	\$202.50
WTR	WTR0060535	COLLECTION COST RECOVERY			03-FEB-23	03-FEB-23	\$142.50
WTR	WTR0060536	COLLECTION COST RECOVERY			03-FEB-23	03-FEB-23	\$212.50
WTR	SC00320350	LATE FEE - FEB 2023			10-FEB-23	10-FEB-23	\$118.44
WTR	SC00323875	LATE FEE - MAR 2023			10-MAR-23	10-MAR-23	\$118.44

Total of delinquent transactions (Account): \$5256.32

Total of delinquent transactions (Customer): \$5256.32

Customer Name: HARRIS CO METROPOLITAN UD, LTD

Account #: 0104618

Debtcollpath Stage: WHOLD:REFERRED, UNCOL:EXHAUST

Calls:



Water Quality Receipt Report

MAR-21-23 09:00 PM

Paid In By: IDS ENGINEERING GROUP INC

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY PMT								
WATER QUALITY	WQP	M301120A	11105001	CK	218024		07-OCT-22	-\$2000.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M301120B	11105001	CK	218024		07-OCT-22	-\$15.00
WATER QUALITY PMT								
WATER QUALITY	WQP	M304748A	11215001	CK	218037		28-NOV-22	-\$2000.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M304748B	11215001	CK	218037		28-NOV-22	-\$15.00
WATER QUALITY PMT								
WATER QUALITY	WQP	M306464A	14956001	CK	217272		13-DEC-22	-\$2000.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M306464B	14956001	CK	217272		13-DEC-22	-\$15.00
WATER QUALITY PMT								
WATER QUALITY	WQP	M306745A	11832001	CK	218241		16-DEC-22	-\$2100.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M306745B	11832001	CK	218241		16-DEC-22	-\$65.00
WATER QUALITY PMT								
NOTICE FEES WQP	PTGQ	M310789	11832001	CK	218387		30-JAN-23	-\$35.00
WATER QUALITY PMT								
WATER QUALITY	WQP	M310946A	12044001	CK	218289		07-FEB-23	-\$2000.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M310946B	12044001	CK	218289		07-FEB-23	-\$15.00
WATER QUALITY PMT								
WATER QUALITY	WQP	M311868A	10668001	CK	218459		14-FEB-23	-\$1600.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M311868B	10668001	CK	218459		14-FEB-23	-\$15.00
WATER QUALITY PMT								

Paid In By: INCONTROL TECHNOLOGIES LLC

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M207195		CK	6806		17-DEC-21	-\$100.00
PERMIT APPLICATION								

Paid In By: INDIGO MART LLC

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M206026	14668001	CK	1245		06-DEC-21	-\$100.00
PERMIT APPLICATION								

Paid In By: INEOS CALABRIAN CORPORATION

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M119759A	04731000	CK	2940		30-JUN-21	-\$1200.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M119759B	04731000	CK	2940		30-JUN-21	-\$50.00
WATER QUALITY PMT								

Paid In By: INEOS PHENOL

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M218358A	02067000	CK	201274		17-JUN-22	-\$2000.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M218358B	02067000	CK	201274		17-JUN-22	-\$50.00
WATER QUALITY PMT								

Districts

Maps

Documents

Reports

WDD Main

District Name: HARRIS COUNTY MUD 368 (3738300)

Affiliations

Documents

Responsible Party

Organization: HARRIS COUNTY MUD 368
 Address: 2929 ALLEN PKWY STE 3150
 HOUSTON , TX 77019-7126
 Individual: ROY P LACKEY
 Job Title: PRESIDENT

Phone: (713) 489-8977 Ext:

Customers

Reference Number
 CN600737621

Name
 HARRIS COUNTY MUD 368

Role
 RESPONSIBLE PARTY

Official Address / Phone

Address: 2929 ALLEN PKWY STE 3150
 HOUSTON , TEXAS 77019-7100
 Telephone: (713) 489-8977

Properties

CR Regulated Entity Number: RN101400406
 CCEDS Status: NO ACTIVE NOE EXISTS
 District Type: MUNICIPAL UTILITY DISTRICT
 Creation Type: TCEQ
 Primary County: HARRIS
 Financial Status: AUDIT FILED
 Acre Size: 1054.092
 Directors: 5
 Closure: Y

Functions

Function
 DRAINAGE
 EMINENT DOMAIN
 FLOOD CONTROL
 HYDROELECTRIC
 IRRIGATION
 NAVIGATION
 RECREATION AND PARKS
 ROAD POWERS
 RETAIL WASTEWATER
 STREET LIGHTING
 SUPPLY TREATED OR RETAIL WATER
 SUPPLY RAW (UNTREATED) OR WHOLESALE WATER
 SOLID WASTE GARBAGE
 TAX BOND AUTHORITY
 Occurrences retrieved.

Entry Date
 07/24/2001
 07/24/2001
 07/24/2001
 07/24/2001
 07/24/2001
 07/24/2001
 07/24/2001
 11/02/2000
 07/24/2001
 11/02/2000
 07/24/2001
 07/11/2001
 07/24/2001

Associated Public Water Systems

PWS Name
HARRIS COUNTY MUD 368
 Water System occurrences retrieved.

PWSID
 1011908

Status
 ACTIVE

CCN
 P0463

Utility Name
HARRIS COUNTY MUD 368

Associated Utility Systems

Utility Name
HARRIS COUNTY MUD 368
 Utility occurrences retrieved.

Status
 ACTIVE

CCN
 P0463

Counties

Code
 101
 Occurrences retrieved.

County Name
 HARRIS

Primary
 Y

Activity

Creation Date: 12/13/1973
Activity Status: ACTIVE
Last Registration Date: 05/21/2020
Boundary Change Date: 01/19/2012
Sewer Rules Approved Date: 07/25/1979
Confirmation Date: 08/14/1976

[Run District Information Report](#)
[Show Map](#)

District successfully retrieved.

For all filter and queries to perform effectively best to view with IE

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[Statewide Links](#): [Texas.gov](#) | [Texas Homeland Security](#) | [TRAIL Statewide Archive](#) | [Texas Veterans Portal](#)

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[ZIP Code™ by Address \(/zip-code-lookup.htm?byaddress\)](https://www.usps.com/zip-code-lookup.htm?byaddress)

[ZIP Code™ by City and State \(/zip-code-lookup.htm?bycitystate\)](https://www.usps.com/zip-code-lookup.htm?bycitystate)

[Cities by ZIP Code™ \(/zip-code-lookup.htm?citybyzipcode\)](https://www.usps.com/zip-code-lookup.htm?citybyzipcode)

[FAQs \(https://www.usps.com/zip-code-lookup.htm?citybyzipcode\)](https://www.usps.com/zip-code-lookup.htm?citybyzipcode)

Look Up a ZIP Code™ FAQs

Go to

ZIP Code™ by Address

You entered:

2929 ALLEN PKWY STE 3150
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](https://www.usps.com/zip-code-lookup.htm?byaddress))

2929 ALLEN PKWY STE 3150
HOUSTON TX **77019-7126**

[Look Up Another ZIP Code™](#)

[Edit and Search Again \(/zip-code-lookup.htm?byaddress\)](https://www.usps.com/zip-code-lookup.htm?byaddress)

Feedback

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[ZIP Code™ by City and State \(/zip-code-lookup.htm?bycitystate\)](https://www.usps.com/zip-code-lookup.htm?bycitystate)

[Cities by ZIP Code™ \(/zip-code-lookup.htm?citybyzipcode\)](https://www.usps.com/zip-code-lookup.htm?citybyzipcode)

[FAQs \(https://www.usps.com/zip-code-lookup.htm?citybyzipcode\)](https://www.usps.com/zip-code-lookup.htm?citybyzipcode)

Look Up a ZIP Code™ FAQs

Go to

ZIP Code™ by Address

You entered:

13430 NW FWY, SUITE 700
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](https://www.usps.com/zip-code-lookup.htm?byaddress))**

13430 NORTHWEST FWY STE 700
HOUSTON TX **77040-6091**

[Look Up Another ZIP Code™](#)

[Edit and Search Again \(/zip-code-lookup.htm?byaddress\)](https://www.usps.com/zip-code-lookup.htm?byaddress)

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[FAQs \(https://www.usps.com/zip-code-lookup.htm?citybyzipcode\)](https://www.usps.com/zip-code-lookup.htm?citybyzipcode)

Look Up a ZIP Code™ FAQs

Go to

ZIP Code™ by Address

You entered:

5118 SPRING CYPRESS RD
SPRING 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](https://www.usps.com/zip-code-lookup.htm?byaddress))**

5118 SPRING CYPRESS RD
SPRING TX **77379-3439**

[Look Up Another ZIP Code™](#)

[Edit and Search Again \(/zip-code-lookup.htm?byaddress\)](https://www.usps.com/zip-code-lookup.htm?byaddress)

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SafeSearch on

About 70,500 results (0.68 seconds)

Results for Houston, TX · Choose area



Texas.gov

<https://www.tceq.texas.gov> · agency · region

Region Directory - Texas Commission on Environmental Quality

TCEQ regional offices are organized under region areas. Each area is managed by an area director. Below is contact and location information about each TCEQ ...

Region 1, Amarillo · Region 2, Lubbock · Region 3, Abilene

<https://www.tceq.texas.gov/goto/regionsmap> PDF

TCEQ Areas, Regions, Texas Watermasters, and Compliance ...

12 – HOUSTON. Regional Director: Nicole Bealle. 5425 Polk St., Ste. H. Houston, TX 77023-1452. 713-767-3500 • FAX: 713-767-3520. 13 – SAN ANTONIO.



Reduce Flooding

<https://reduceflooding.com/incident-375712> PDF

TCEQ Region 12 Letterhead - Reduce Flooding

Apr 29, 2022 — Texas Commission on Environmental Quality ... Investigator with the TCEQ Houston Region Office. ... 5425 Polk Ave Suite H. TCEQ. Report To ...
20 pages

People also ask

What does the Texas Commission on Environmental Quality mean?

Where is the Texas Commission on Environmental Quality headquarters?

What is the main address for TCEQ?

How do I contact TCEQ Texas?

Feedback



Amazon AWS

<https://legistarweb-production.s3.amazonaws.co...> PDF

area & regional offices - Amazon AWS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY ... 12 – HOUSTON. Regional Director: Ashley K. Wadick. 5425 Polk St., Ste. H ... 6300 Ocean Dr., Unit 5839.
2 pages



Construction Journal

<https://www.constructionjournal.com/details/pages>

Texas Commission on Environmental Quality-Houston ...

5425 Polk Street · Suite H · MC · R12. TX, Houston 77056. (512) 239-1000.
www.tceq.texas.gov/. Company Type: Agency. Project Breakdown.



StateScape

<https://services.statescape.com/StaticDownloads>

IN ADDITION - StateScape

The Texas Commission on Environmental Quality (TCEQ, ... REGIONAL OFFICE: 5425 Polk Avenue, Suite H, Houston, Texas 77023-1486, (713) 767-3500.



Texas Commission on Environmental Quality

Website Directions Save

4.4 10 Google reviews

State department of environment in Houston, Texas

Located in: Elias Ramirez Building

Address: 5425 Polk St H, Houston, TX 77023

Hours: Wednesday 8 AM–5 PM

Thursday 8 AM–5 PM

Friday 8 AM–5 PM

Saturday Closed

Sunday Closed

Monday 8 AM–5 PM

Tuesday 8 AM–5 PM

Suggest new hours

Phone: (512) 239-1000

Suggest an edit · Own this business?

Questions & answers

See all questions (8)

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People also search for

Third Coast Environ...	Texas Campaign For The E...	Equal Employm...	Technolo...
Services	For The E...	Opportuni...	Enhanced
Environmen... consultant	Environmen... protection organization	Federal government office	Oil Not A... Corporate office

About this data

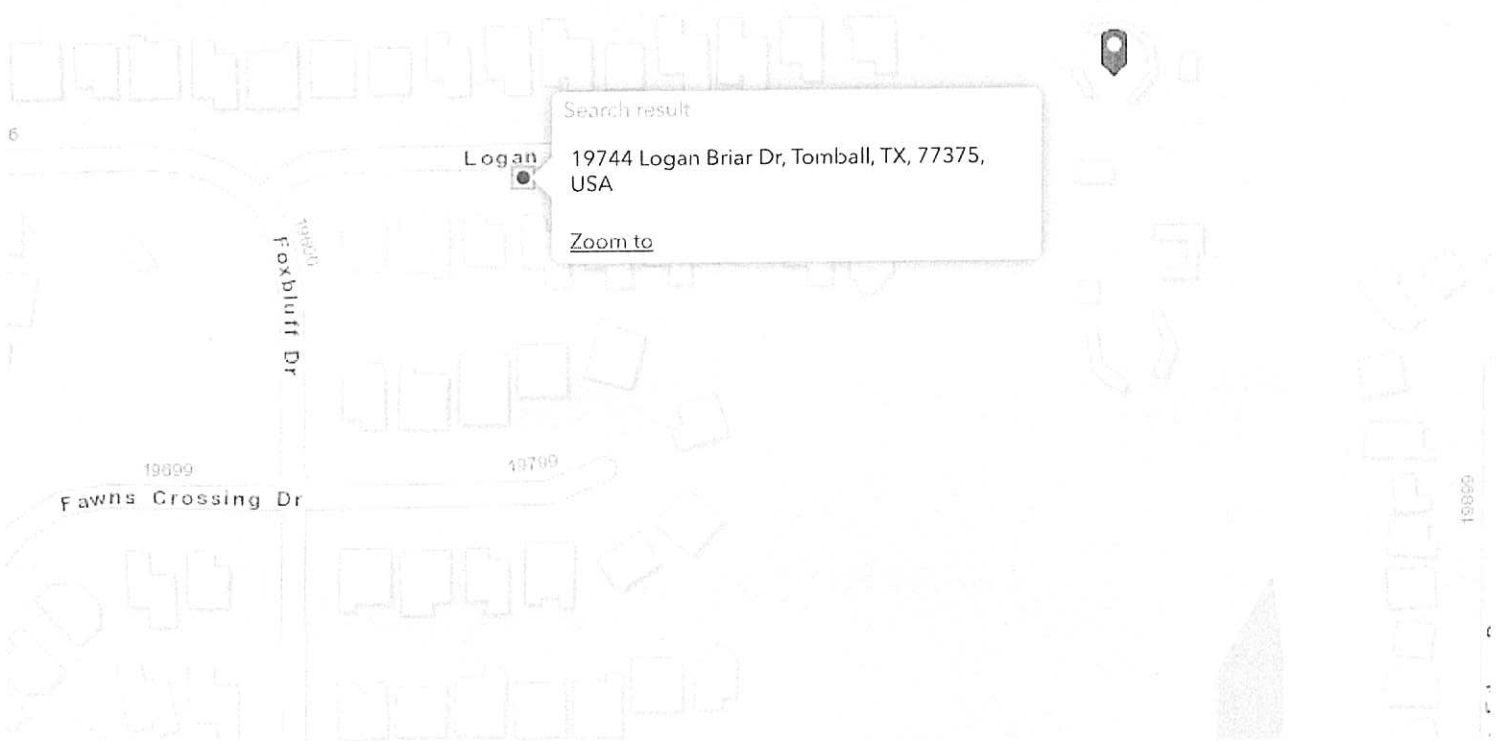
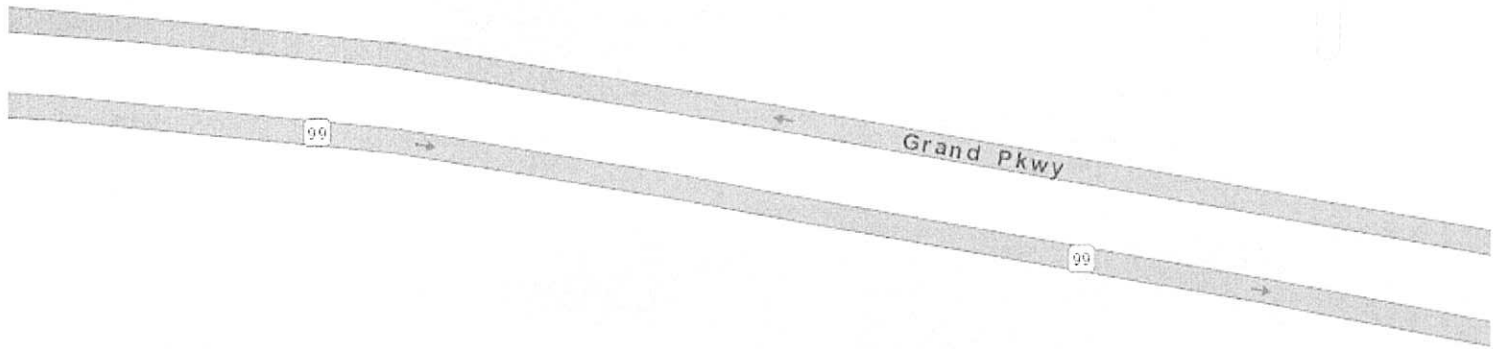


19744 0.5 LOGAN BRIAR DR, T X



Show search results for 19744 0.5 LO...

Bray Hoff



Search result

Logan

19744 Logan Briar Dr, Tomball, TX, 77375, USA

[Zoom to](#)



TCEQ Use Only

TCEQ Core Data Form

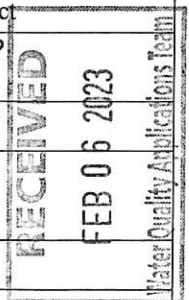
For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600737621		RN 102080553

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
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:	
Harris County Municipal Utility District No. 368			
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	N/A	N/A
11. Type of Customer:		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input checked="" type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:			
2929 Allen Parkway c/o Johnson Petrov LLP			
Suite 3150			
City	Houston	State	TX
ZIP	77019	ZIP + 4	7100
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		ajohnson@johnsonpetrov.com	
18. Telephone Number		19. Extension or Code	
(713) 489-8977			
		20. Fax Number (if applicable)	
		() -	



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)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> 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.)	
Harris County Municipal Utility District No. 368 Wastewater Treatment Facility	

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	19744 1/2 Logan Briar Dr							
	City	Tomball	State	TX	ZIP	77375	ZIP + 4	1785
24. County	Harris							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:							
26. Nearest City				State		Nearest ZIP Code	
Tomball				TX		77375	
27. Latitude (N) In Decimal:		30.051259°		28. Longitude (W) In Decimal:		-95.597101°	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
30	3	4.5324	-95	35	49.5636		
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? <i>(Do not repeat the SIC or NAICS description.)</i>							
Treatment on Domestic Wastewater for Harris County MUD No. 368							
34. Mailing Address:		2929 Allen Parkway c/o Johnson Petrov LLP					
		Suite 3150					
		City	Houston	State	TX	ZIP	77019
35. E-Mail Address:		ajohnson@johnsonpetrov.com					
36. Telephone Number		37. Extension or Code		38. Fax Number <i>(if applicable)</i>			
(713) 489-8977				() -			

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

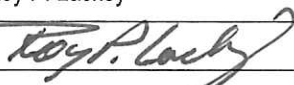
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:
WQ0012204401				

SECTION IV: Preparer Information

40. Name:	Kameron Pugh, P.E.	41. Title:	District Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(832) 590-7187		() -	KPugh@idseg.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:	Harris County MUD No. 368	Job Title:	Board President
Name <i>(In Print)</i> :	Roy P. Lackey	Phone:	(281) 642- 2563
Signature:		Date:	1/6/2023



INDUSTRIAL/MUNICIPAL APPLICATIONS ROUTE SHEET

New _____

Major Amend _____

Minor Amend _____

Renewal X

Major Facility X

Application Reviewer ✓ Technical Reviewer _____

Final Flow \geq 1MGD 1.6

DATE APPLICATION RECEIVED 2/6/2023

PERMIT NUMBER WQ00/2044001

PRE PREVIEW BY STANDARDS (RWA) _____

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.

N/A X

PRE PREVIEW BY GROUNDWATER _____

TLAP Only: Route copy of new and major amend.

N/A X

PRE TECH REVIEW REQUIRED X _____

Route copy of new, major amendments, major facilities or final flow \geq 1MGD for Municipal.

N/A _____

COASTAL ZONE DETERMINATION _____

Route copy of new application or major amendment when the facility is located in the noted county

N/A X

COMMENTS ARE DUE TO APPLICATIONS TEAM BY CLOSING ON _____

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 WD0001204400 County HARRIS

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?

<input type="checkbox"/> Aransas	<input type="checkbox"/> Galveston	<input type="checkbox"/> Kleberg	<input type="checkbox"/> San Patricio
<input type="checkbox"/> Brazoria	<input type="checkbox"/> Harris	<input type="checkbox"/> Matagorda	<input type="checkbox"/> Victoria
<input type="checkbox"/> Calhoun	<input type="checkbox"/> Jackson	<input type="checkbox"/> Nueces	<input type="checkbox"/> Willacy
<input type="checkbox"/> Cameron	<input type="checkbox"/> Jefferson	<input type="checkbox"/> Orange	
<input type="checkbox"/> Chambers	<input type="checkbox"/> Kenedy	<input type="checkbox"/> 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 Section'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 _____