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 (**NOTE:** This application was declared Administratively Complete before June 1, 2024. Application materials are available for review at the Public Viewing Location provided in the NORI.)
5. Draft permit
6. Technical summary or fact sheet

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

1. Resumen de la solicitud (en lenguaje sencillo)
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
   - Inglés
   - Idioma alternativo (español)
3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
   - Inglés
   - Idioma alternativo (español)
4. Materiales de la solicitud (**NOTA:** Esta solicitud se declaró administrativamente completa antes del 1 de junio de 2024. Los materiales de la solicitud están disponibles para revisión en la ubicación de consulta pública que se indica en el NORI.)
5. Proyecto de permiso
6. Resumen técnico u hoja de datos

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.
Porter Municipal Utility District (CN600792717) operates Porter Municipal Utility District Wastewater Treatment Plant RN101516920. a Wastewater Treatment Plant. The facility is located 23922 Loop 494, in Porter, Montgomery County, Texas 77365.

Requesting to change the Final Effluent amount from 4.0 MGD to 6.0 MGD.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N). Domestic wastewater is treated by *a complete mix mode of activated sludge process, including screening, aeration, final clarification, and disinfection.*

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.

Porter Municipal Utility District (CN 600792717) opera la instalacion de tratamiento de aguas residuales de Porter RN101516920 una planta de tratamiento de aguas residuales. La instalación esta ubicada en 23922 Loop 494, en Porter Condado de Montgomery, Texas 77365.

La solicitud es para cambiar la cantidad de Efluente Final de 4.0 MGD to 6.0 MGD.

Se espera que las descargas de la instalación contengan demanda de cinco días de bioquímica de oxígeno carbonoso (CBOD5), solidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N). Las aguas residuales domésticas se tratan mediante un modo de mezcla completa del proceso de lodos activados, que incluye cribado, balsas de aireación, clarificadores, digestores aerobios y desinfección.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0012242001

APPLICATION. Porter Municipal Utility District, P.O. Box 1030, Porter, Texas 77365, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012242001 (EPA I.D. No. TX0084042) to authorize an increase in the discharge of treated wastewater to a volume not to exceed an annual average flow of 6,000,000 gallons per day**.** The domestic wastewater facility is located at 24816 Cunningham Drive, Porter, in Montgomery County, Texas 77365. The discharge route is from the plant site to an unnamed tributary; thence to Bens Branch; thence to Lake Houston. TCEQ received this application on February 26, 2024. The permit application will be available for viewing and copying at Porter Municipal Utility District Office, 23922 Loop 494, Porter, 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=-95.22806,30.08556&level=18

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing.** A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105,

P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Porter Municipal Utility District at the address stated above or by calling Mr. Ron Young, Attorney for the District, Young & Brooks, at 713-951-0800.

Issuance Date: April 30, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0012242001

SOLICITUD. Porter Municipal Utility District, P.O. Box 1030, Porter, Texas 77365 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para modificar el Permiso No. WQ0012242001 (EPA I.D. No. TX 0084042) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) autorizar un aumento en la descarga de aguas residuales tratadas a un volumen que no exceda un flujo promedio anual de 6,000,000 de galones por día. La planta está ubicada 24816 Cunningham Drive, Porter en el Condado de Montgomery, Texas. La ruta de descarga es del sitio de la planta a afluente con nombre; a Bens Branch; a Lake Houston. La TCEQ recibió esta solicitud el febrero 26, 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Porter Municipal Utility District Office, 23922 Loop 494, Porter, 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=-95.22806,30.08556&level=18Paste

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida**

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

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

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

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

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía http://www14.tceq.texas.gov/epic/eComment/ o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief

Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Porter Municipal Utility District a la dirección indicada arriba o llamando a Mr. Ron Young, Attorney for the District, Young & Brooks, al 713- 951-0800.

Fecha de emisión 30 de abril de 2024

Texas Commission on Environmental Quality

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

AMENDMENT

PERMIT NO. WQ0012242001

APPLICATION AND PRELIMINARY DECISION. Porter Municipal Utility District, P.O. Box 1030, Porter, Texas 77365, has applied to the Texas Commission on Environmental Quality (TCEQ) for a major amendment to Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012242001 to authorize an increase in the discharge of treated domestic wastewater from an annual average flow not to exceed 4,000,000 gallons per day to an annual average flow not to exceed 6,000,000 gallons per day. TCEQ received this application on February 26, 2024.

The facility is located at 24816 Cunningham Drive, in Montgomery County, Texas 77365. The treated effluent is discharged to unnamed tributary, thence to a series of man-made ponds, thence to Bens Branch, thence to Harris County Flood Control District (HCFCD) ditch G103-38-00 (during high flow conditions), thence to Lake Houston in Segment No. 1002 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed tributary, Bens Branch (for 1.12 miles) and HCFCD ditch G103-38-00, and limited aquatic life use for the man-made ponds and Bens Branch (for 2.18 miles). The designated uses for Segment No. 1002 are primary contact recreation, public water supply, and high aquatic life use. In accordance with 30 Texas Administrative Code § 307.5 and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. This review has preliminarily determined that no water bodies with exceptional, high, or intermediate aquatic life uses are present within the stream reach assessed; therefore, no Tier 2 degradation determination is required. No significant degradation of water quality is expected in water bodies with exceptional, high, or intermediate aquatic life uses downstream, and existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.22806,30.08556&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 Porter Municipal Utility District Office, 23922 Loop 494, Porter, Texas. The application is available for viewing and copying at the following webpage:
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ holds a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the Executive Director's decision.** A contested case hearing is a legal proceeding similar to a civil trial in a state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period; and the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

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

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

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

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

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

Further information may also be obtained from Porter Municipal Utility District at the address stated above or by calling Mr. Ron Young, Attorney for the District, Young & Brooks, at 713-951-0800.

Issuance Date: December 1, 2025

Comisión De Calidad Ambiental Del Estado De Texas

AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA EL PERMISO DEL SISTEMA DE ELIMINACION DE DESCARGAS DE CONTAMINANTES DE TEXAS (TPDES) PARA AGUAS RESIDUALES MUNICIPALES

MODIFICACTION

PERMISO NO. WQ0012242001

SOLICITUD Y DECISIÓN PRELIMINAR. Porter Municipal Utility District, P.O. Box 1030, Porter, Texas 77365, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para un modificación principal No. WQ0012242001 que autorizar un aumento en la descarga de aguas residuales domésticas tratadas de un caudal medio anual que no exceda los 4,000,000 de galones por día a un caudal medio anual que no exceda los 6,000,000 de galones por día. La TCEQ recibió esta solicitud el 26 de febrero de 2024.

La planta está ubicada en 28416 Cunningham Drive, en el Condado de Montgomery, Texas. 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=-95.22806,30.08556&level=18

El efluente tratado es descargado es del sitio de la planta a afluente con nombre; a una serie de estanques artificiales; a Bens Branch; a HCFCD zanja G103-38-00 (durante condiciones de alto caudal); a Lake Houston en Segmento No. 1002 de la San Jacinto River. Los usos no clasificados de las aguas receptoras son limitados usos de vida acuática para sitio de la planta a afluente con nombre, Bens Branch (para 1.12 millas), a HCFCD zanja G103-38-00 y limitados usos de vida acuática para serie de estanques artificiales y Bens Branch (para 2.18 millas). Los usos designados para el Segmento No. 1002 son excepcionales uso de vida acuática; abastecimiento de agua potable; recreación de contacto primario. De acuerdo con el 30 TAC §307.5 y los procedimientos de implementación de TCEQ (Enero 2010) para las Normas de Calidad de Aguas Superficiales en Texas, fue realizada una revisión de la antidegradación de las aguas recibidas. Una revisión de antidegradación del Nivel 1 ha determinado preliminarmente que los usos de la calidad del agua existente no será perjudicada por la acción de este permiso. Se mantendrá un criterio narrativo y numérico para proteger los usos existentes. No es requerida una revisión del Nivel 2 ya que no se ha identificado el uso intermedio, alto o excepcional de la vida acuática en los cuerpos de agua en la ruta de descarga. Los usos existentes serán mantenidos y protegidos. La determinación preliminar puede ser reexaminada y puede ser modificada, si se recibe alguna información nueva.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Porter Municipal Utility District Office, 23922 Loop 494, Porter, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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

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

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

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

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

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

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

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

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

También se puede obtener información adicional del Porter Municipal Utility District a la dirección indicada arriba o llamando a Mr. Ron Young, abogado del Distrito, Young & Brooks., al 713-951-0800.

Fecha de emission 1 de diciembre de 2025

E COPY

A&S Engineers, Inc.

Letter of Transmittal

	DATE: February 23, 2024	JOB NO:	130008.07
TO: Texas Commission on Environmental Quality	ATTN: Applications Review and Processing Team		
12100 Park 35 Circle (MC 148)	RE: Porter Municipal Utility District		
Austin, Texas 78753	TPDES Permit No. WQ0012242001 US EPA Permit No. TX0084042		

RECEIVED
FEB 26 2024
Water Quality Applications Team

____Mail ✓ UPS ____FAX/e-mail ____Pickup

We are sending you the following:

	Shop Drawings		Prints		Plans	✓	See Description
	Copy of Letter		Change Order		Drawings		Contract Documents/Specifications

Copies	Date	No.	Description
1			Original Domestic Wastewater Discharge Permit Major Amendment Application – Unbound
3			Domestic Wastewater Discharge Permit Major Amendment Application – GBC Bound

These are transmitted as checked below:

✓	For approval		Approved as submitted		Resubmit copies for approval
	For your use/files		Approved as noted		Submit copies for distribution
	As requested		Please Execute & Return		Return corrected prints
	For review and approval		Returned for corrections		Prints returned after loan to us
	For bids due	✓	See Remarks below		As stamped

Remarks

Please feel free to call me with any questions and/or comments at (713) 942-2700. Thank you.

Copy: 130008.07

Signed: _____
Anna M. Hunter, E.I.T.
Project Coordinator

cc w/enclosures: Ron Young – Young & Brooks
Christopher Sartin – Porter MUD
TCEQ - Houston

P:\Porter MUD\130008 Wastewater Discharge Permit\130008.07 - 2023 Major Amendment\240223 LOT MC-148 - Permit Renewal & Major Amendment .docx

A&S Engineers, Inc.

February 23, 2024

Texas Commission on Environmental Quality
Applications Review and Processing Team (MC 148)
12100 Park 35 Circle
Austin, Texas 78753

Re: Domestic Wastewater Discharge Permit Major Amendment and Renewal
Permit No. WQ0012242001
NPDES Permit No. TX 0084042
Porter Municipal Utility District
A&S Project No. 130008.07

Ladies and Gentlemen:

Porter Municipal Utility District holds a TCEQ permit for a municipal wastewater treatment plant, Permit No. WQ0012242001 that is due to expire on August 26, 2024. Attached is a Permit Major Amendment and Renewal Application to change the final phase to 6.0 MGD to the permitted daily average flow and the additions of the interim phase II (4.0 MGD) and interim phase III (5.0 MGD) permitted daily average flow.

Enclosed are one (1) original and three (3) copies of the Application. The fee is being sent under separate cover to the Revenues Section (MC 214).

If you have any questions or comments, please feel free to call me at (713) 942-2700.

Sincerely,

Jonathan Liu, P.E.
Engineer

Enclosures: TPDES Permit Major Amendment and
Municipal Utility District

cc w/enclosures: Mr. Ron Young, Young & Bro
Mr. Christopher Sartain
TCEQ-Houston

ORIGINALS

10377 Stella Link Road | Houston, TX 77025 | 713 / 942 / 2700 | www.as-engineers.com

ORIGINAL

Porter Municipal Utility District
Wastewater Treatment Plant

TPDES DOMESTIC WASTEWATER DISCHARGE PERMIT

6.0 MGD WWTP

MAJOR AMENDMENT

February 2024

TPDES PERMIT NO. WQ0012242001
US EPA PERMIT NO. TX 0084042

A&S Engineers, Inc.

10377 Stella Link Rd
Houston, TX 77025
Texas Engineering Registration No. F-000802
Phone: 713-942-2700, Fax: 713-942-2799

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: Porter Municipal Utility District

PERMIT NUMBER: WQ0012242001

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

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

For TCEQ Use Only

Segment Number 1002 County Harris
Expiration Date 8/26/2024 Region 12
Permit Number WQ0012242001

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 29)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: Check No. 1523

Check/Money Order Amount: $2,050.00

Name Printed on Check: A&S Engineers, Inc.

EPAY — Voucher Number:

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 29)

☐ New TPDES

☒ Major Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☐ Renewal without changes

☐ New TLAP

☐ Minor Amendment *with* Renewal

☐ Minor Amendment *without* Renewal

☐ Minor Modification of permit

For amendments or modifications, describe the proposed changes: This application is for the annual renewal of the Wastewater Treatment Plant permit as well as a major amendment to increase the final permitted capacity to 6.0 MGD.

For existing permits:

Permit Number: WQ0012242001

EPA I.D. (TPDES only): TXTX0084042

Expiration Date: August 26, 2024

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

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

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

Porter Municipal Utility District

(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: 600792717

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: R. Wayne Curry

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

Title: President, Board of Directors

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: Exhibit 11 - Core Data Form

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: Ron Young

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

Title: Attorney for the District

Organization Name: Young & Brooks

Mailing Address: 10000 Memorial Drive, Suite 260

City, State, Zip Code: Houston, TX 77024

Phone No.: 713-951-0800 Ext.: Fax No.: 713-951-9605

E-mail Address: ryoung@youngandbrooks.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

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

First and Last Name: Jonathan Liu

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

Title: Engineer

Organization Name: A&S Engineers, Inc.

Mailing Address: 10377 Stella Link Dr.

City, State, Zip Code: Houston, TX 77025

Phone No.: 713-942-2700 Ext.: Fax No.: 713-942-2799

E-mail Address: jdl@as-engineers.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: Ron Young

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

Title: Attorney for the District

Organization Name: Young & Brooks

Mailing Address: 10000 Memorial Drive, Suite 260

City, State, Zip Code: Houston, TX 77024

Phone No.: 713-951-0800 Ext.: Fax No.: 713-951-9605

E-mail Address: ryoung@youngandbrooks.com

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

First and Last Name: Gerald Gehman

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

Title: Engineer for the District

Organization Name: A&S Engineers, Inc.

Mailing Address: 10377 Stella Link Dr.

City, State, Zip Code: Houston, TX 77025

Phone No.: 713-942-2700 Ext.: Fax No.: 713-942-2799

E-mail Address: glg@as-engineers.com

Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: Karen McClain

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

Title: Manager

Organization Name: Porter Municipal Utility District

Mailing Address: P.O. Box 1030

City, State, Zip Code: Porter, TX 77365

Phone No.: 281-354-9352 Ext.: Fax No.: 281-354-1088

E-mail Address: kmcclain@porter-mud.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): Ms.

First and Last Name: Karen McClain

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

Title: Manager

Organization Name: Porter Municipal Utility District

Mailing Address: P.O. Box 1030

City, State, Zip Code: Porter, TX 77365

Phone No.: 281-354-9352 Ext.: Fax No.: 281-354-1088

E-mail Address: kmcclain@porter-mud.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): Mr.

First and Last Name: Jonathan Liu

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

Title: Engineer

Organization Name: A&S Engineers, Inc

Mailing Address: 10377 Stella Link Dr

City, State, Zip Code: Houston, TX 77025

Phone No.: 713-942-2700 Ext.: Fax No.: 713-942-2799

E-mail Address: jdl@as-engineers.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: Ron Young

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

Title: Attorney for the District

Organization Name: Young & Brooks

Phone No.: 713-951-0800 Ext.:

E-mail: ryoung@youngandbrooks.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: Porter MUD District Office

Location within the building:

Physical Address of Building: 23922 Loop 494

City: Porter County: Montgomery

Contact Name: Karen McClain

Phone No.: 281-354-9352 Ext.:

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: Exhibit 24 – Public Involvement Plan Form

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN**101516920

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):

Porter Municipal Utility District Wastewater Treatment Facility

C. Owner of treatment facility: Porter Municipal Utility District

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

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

Prefix (Mr., Ms., Miss):

First and Last Name: Porter Municipal Utility District

Mailing Address: P.O. Box 1030

City, State, Zip Code: Porter, TX 77365

Phone No.: 281-354-9352 E-mail Address: kmcclain@porter-mud.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:

N/A

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

☒ Yes ☐ No

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

N/A

City nearest the outfall(s): Porter

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

Outfall Latitude: 30° 05' 07.75" N Longitude: 95° 13' 43.75" W

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: Exhibit 23 - Proof of Contact and Authorization to Discharge

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.

Harris County, Montgomery County, Brazoria County, Galveston County

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: N/A

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

D. Disposal Site Latitude: N/A Longitude: N/A

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

N/A

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

N/A

Section 12. Miscellaneous Information (Instructions Page 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.

N/A

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

☐ Yes ☒ No

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

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: WQ0012242001

Applicant: Porter Municipal Utility District

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): R. Wayne Curry

Signatory title: President

Signature: R. Wayne Curry Date: 1/16/2024

(Use blue ink)

Subscribed and Sworn to before me by the said R. Wayne Curry

on this 16th day of January, 2024.

My commission expires on the 24th day of February, 2027.

BIANCA RAVEN BIRKES
Notary Public, State of Texas
Comm. Expires 02-24-2027
Notary ID 134219674

Bianca Raven Birkes
Notary Public

[SEAL]

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.
Porter Municipal Utility District (CN600792717) operates Porter Municipal Utility District Wastewater Treatment Plant RN101516920. a Wastewater Treatment Plant. The facility is located 23922 Loop 494, in Porter, Montgomery County, Texas 77365.

Requesting to change the Final Effluent amount from 4.0 MGD to 6.0 MGD.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N). Domestic wastewater is treated by *a complete mix mode of activated sludge process, including screening, aeration, final clarification, and disinfection.*

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.

Porter Municipal Utility District (CN 600792717) opera la instalacion de tratamiento de aguas residuales de Porter RN101516920 una planta de tratamiento de aguas residuales. La instalación esta ubicada en 23922 Loop 494, en Porter Condado de Montgomery, Texas 77365.

La solicitud es para cambiar la cantidad de Efluente Final de 4.0 MGD to 6.0 MGD.

Se espera que las descargas de la instalación contengan demanda de cinco días de bioquímica de oxígeno carbonoso (CBOD5), solidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N). Las aguas residuales domésticas se tratan mediante un modo de mezcla completa del proceso de lodos activados, que incluye cribado, balsas de aireación, clarificadores, digestores aerobios y desinfección.

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: Montgomery County Appraisal District Website

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):

N/A

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 ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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: Porter Municipal Utility District

   Permit No. WQ00 12242-001 EPA ID No. TX 0084042

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

   The Wastewater Treatment Plant is located in Porter, Texas about 7,200 feet south-southeast of the intersection of U.S. Highway 59 and Farm-to-Market Road 1314 and about 2,100 feet east-southeast of the intersection of Martin Drive and Loop No. 494 in Montgomery County, Texas.

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

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

First and Last Name: Gerald Gehman

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

Title: District Engineer

Mailing Address: 10377 Stella Link Road

City, State, Zip Code: Houston, TX 77025

Phone No.: 713-942-2700 Ext.: Fax No.: 713-942-2799

E-mail Address: GLG@as-engineers.com

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

Porter Municipal Utility District

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.

The wastewater treatment plant discharges to Ben's Branch Tributary #1; thence to Ben's Branch; thence to Lake Houston in segment No. 1002 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:

The north side of the wastewater treatment plant (0.8 MGD) was built in 1984. All structures and buildings south of the original north water plant was built in the early 2000's and in 2023.

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

The original wastewater treatment plant was built in 1984 as a 0.800 MGD plant. It was then further expanded by another 0.800 MGD in the early 2000's. In 2023 the plant was expanded to accommodate 2.40 MGD of wastewater and is currently under construction for 4.0 MGD capacity.

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:** WQ0012242001

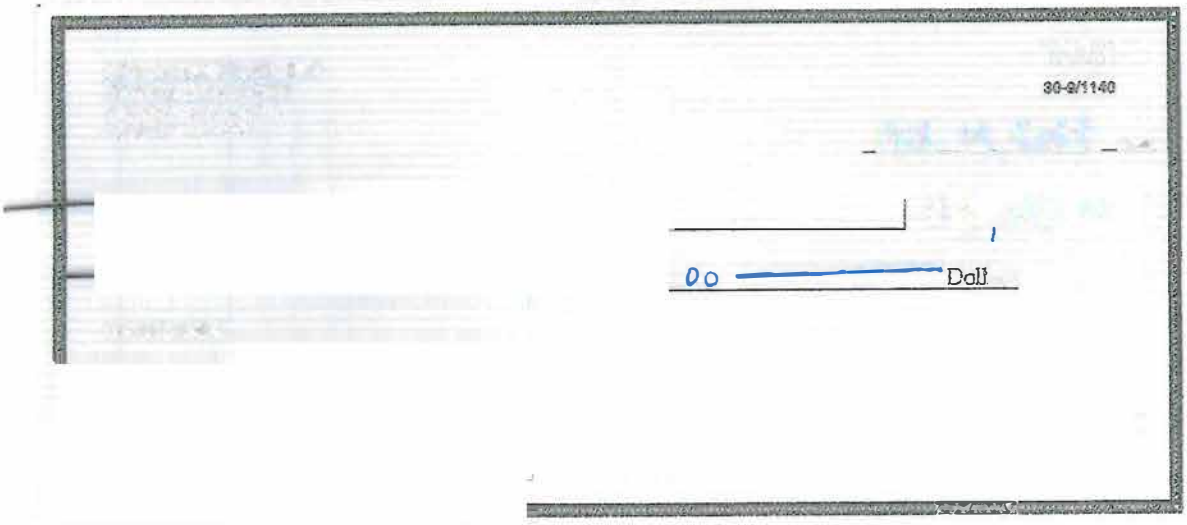
1. Check or Money Order Number: Check No. 1523
2. Check or Money Order Amount: $2,050.00
3. Date of Check or Money Order: 02/19/2024
4. Name on Check or Money Order: Porter Municipal Utility District
5. APPLICATION INFORMATION

   Name of Project or Site: Porter Municipal Utility District - Wastewater Treatment Plant

   Physical Address of Project or Site: 24816 Cunningham Dr. Porter, TX 77365

   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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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 ½ 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)

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:

Reference Exhibit 12 - Treatment Process

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

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Reference Exhibit 7 - Treatment Units		

C. Process flow diagrams

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

Attachment: Exhibit 8 - Schematic of Wastewater Flow

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: Exhibit 9 - Site Plans

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

Serves Porter Municipal Utility District

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): 1.60/2.40

2-Hr Peak Flow (MGD): 6.40/9.60

Estimated construction start date: 1984/04-01-2024

Estimated waste disposal start date: 1984/04-01-2025

B. Interim II Phase

Design Flow (MGD): 4.00/5.00

2-Hr Peak Flow (MGD): 16.00/20.00

Estimated construction start date: 11-01-2023/ 01-01-2026

Estimated waste disposal start date: 11-01-2026/ 01-01-2028

C. Final Phase

Design Flow (MGD): 6.0

2-Hr Peak Flow (MGD): 24.0

Estimated construction start date: 03-01-2028

Estimated waste disposal start date: 03-01-2030

D. Current operating phase: Existing/Interim I

Provide the startup date of the facility: 1984

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

Provide a detailed description of the treatment process. **Include the type of**

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.

N/A

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.

As part of the 4.0 MGD expansion, existing treatment units will be closed and replaced during construction. The closure plan was approved on March 27, 2023.

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:

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.

Existing, Phase I, and Phase II (1.6 MGD, 2.4 MGD, and 4.0 MGD) have been submitted and approved by TCEQ. Phases III and Final (5.0 MGD and 6.0 MGD) are under design. They will be submitted to TCEQ for review at a future date.

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 AN90 or TXRNE

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 BOD_5

concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

This information has not changed since the last permit.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

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

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	4.4	4.4	1	Grab	12/13/23 at 13:35
Total Suspended Solids, mg/l	9.0	9.0	1	Grab	12/13/23 at 13:35
Ammonia Nitrogen, mg/l	10.2	10.2	1	Grab	12/13/23 at 13:35
Nitrate Nitrogen, mg/l	13.6	13.6	1	Grab	12/13/23 at 13:35
Total Kjeldahl Nitrogen, mg/l	7.09	7.09	1	Composite	12/13/23 at 13:35
Sulfate, mg/l	36.7	36.7	1	Grab	12/13/23 at 13:35
Chloride, mg/l	77.3	77.3	1	Grab	12/13/23 at 13:35
Total Phosphorus, mg/l	10.0	10.0	1	Grab	12/13/23 at 13:35
pH, standard units	6.5	6.5	1	Grab	12/13/23 at 13:35

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Dissolved Oxygen*, mg/l	8.8	8.8	1	Grab	12/13/23 at 13:35
Chlorine Residual, mg/l	1.7	1.7	1	Grab	12/13/23 at 13:35
E.coli (CFU/100ml) freshwater	<2	<2	1	Grab	12/13/23 at 13:35
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	548	548	1	Grab	12/13/23 at 13:35
Electrical Conductivity, µmohs/cm, †	800	800	1	Grab	12/13/23 at 13:35
Oil & Grease, mg/l	<5.2	<5.2	1	Grab	12/13/23 at 13:35
Alkalinity ($CaCO_3$)*, mg/l	114	114	1	Grab	12/13/23 at 13:35

*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					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Christopher M. Sartain

Facility Operator's License Classification and Level: Class B

Facility Operator's License Number: WW0046322

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: McCarty Landfill

TCEQ permit or registration number: 261B

County where disposal site is located: Harris

C. Sludge transportation method

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

Name of the hauler: Spring Waste Services

Hauler registration number: 23822

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:
- USDA Natural Resources Conservation Service Soil Map:

  Attachment:
- Federal Emergency Management Map:

  Attachment:
- Site map:

  Attachment:

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:

C. Liner information

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

Yes ☐ No ☐

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

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.

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:

Total Kjeldahl Nitrogen, mg/kg:

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

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

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

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

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

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: R. Wayne Curry

Title: President

Signature: _____

Date: 1/16/2024

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.

Proposed future development will require the wastewater treatment plant to have greater capacity than anticipated in the Final Phase. Porter Municipal Utility District requests to change the Interim and Final Phases. Existing = 1.6 MGD; Interim Phase I = 2.4 MGD; Interim Phase II = 4.0 MGD; Interim Phase III = 5.0 MGD; Final Phase 6.0 MGD

B. Regionalization of facilities

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

1. Municipally incorporated areas

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

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

Yes ☐ No ☒ Not Applicable ☐

If yes, within the city limits of:

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: **Exhibit 18 - Regionalization**

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

Attachment: **Exhibit 18 - Regionalization**

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): 1.6 MGD, 2.4 MGD, 4.0 MGD, 5.0 MGD, 6.0 MGD

Average Influent Organic Strength or BOD_5 Concentration in mg/l: 250 mg/L

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): 3336, 5004, 8340, 10425, 12510 lbs/day

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

Lab analysis

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, no showers		

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
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: 10/10

Total Suspended Solids, mg/l: 15/15

Ammonia Nitrogen, mg/l: 3/3

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: 4/4

Other:

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15/15

Ammonia Nitrogen, mg/l: 3/3

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: 4/4

Other:

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: 4

Other:

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: 1.0 mg/l after 20 minutes detention time at peak flow

Dechlorination process: Sulfur Dioxide

☐ Ultraviolet Light: seconds contact time at peak flow

☐ Other:

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: Exhibit 20 – Design Calculations

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.

N/A

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

Reference Exhibit 21 - FEMA Flood Insurance Rate Map

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:** **Exhibit 22 – Wind Rose**

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: **Exhibit 16 – Sludge Management Plan**

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).

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: Unnamed tributary to Bens Branch

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.

Ben's Branch

D. Downstream characteristics

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

Yes ☐ No ☒

If yes, discuss how.

E. Normal dry weather characteristics

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

Flow is clear with vegetation.

Date and time of observation: 02-01-2024 at 7:45 AM

Was the water body influenced by stormwater runoff during observations?

Yes ☐ No ☒

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

A. Upstream influences

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

- ☐ Oil field activities
- ☐ Upstream discharges
- ☐ Septic tanks
- ☒ Urban runoff
- ☐ Agricultural runoff
- ☐ Other(s), specify

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☒ Other(s), specify Storm Water Runoff

C. Waterbody aesthetics

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

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

DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES REQUIREMENTS*

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

This worksheet is not required for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

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

Grab ☒ Composite ☐

Date and time sample(s) collected: December 13, 2023 at 13:35

Table 4.0(1) - Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<1.0	<1.0	1	50
Aldrin	<0.010	<0.010	1	0.01
Aluminum	21.7	21.7	1	2.5
Anthracene	<1.03	<1.03	1	10
Antimony	<2.00	<2.00	1	5
Arsenic	0.682	0.682	1	0.5
Barium	173	173	1	3
Benzene	<1.00	<1.00	1	10
Benzidine	<20.7	<20.7	1	50
Benzo(a)anthracene	<1.03	<1.03	1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Benzo(a)pyrene	<1.03	<1.03	1	5
Bis(2-chloroethyl)ether	<1.03	<1.03	1	10
Bis(2-ethylhexyl)phthalate	<7.76	<7.76	1	10
Bromodichloromethane	<1.00	<1.00	1	10
Bromoform	<1.00	<1.00	1	10
Cadmium	<1.00	<1.00	1	1
Carbon Tetrachloride	<1.00	<1.00	1	2
Carbaryl	<2.56	<2.56	1	5
Chlordane*	ND	ND	N/A	0.2
Chlorobenzene	<1.00	<1.00	1	10
Chlorodibromomethane	<1.00	<1.00	1	10
Chloroform	3.68	3.68	1	10
Chlorpyrifos	ND	ND	N/A	0.05
Chromium (Total)	<1.00	<1.00	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Chromium (Hex)	<3	<3	1	3
Copper	2.55	2.55	1	2
Chrysene	<1.03	<1.03	1	5
p-Chloro-m-Cresol	<2.48	<2.48	1	10
4,6-Dinitro-o-Cresol	<8.27	<8.27	1	50
p-Cresol	<6.41	<6.41	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Cyanide (*2)	<2.38	<2.38	1	10
4,4'- DDD	<0.0102	<0.0102	1	0.1
4,4'- DDE	<0.0102	<0.0102	1	0.1
4,4'- DDT	<0.0102	<0.0102	1	0.02
2,4-D	<1.03	<1.03	1	0.7
Demeton (O and S)	<0.0512	<0.0512	1	0.20
Diazinon	<0.0512	<0.0512	1	0.5/0.1
1,2-Dibromoethane	<1.00	<1.00	1	10
m-Dichlorobenzene	<1.00	<1.00	1	10
o-Dichlorobenzene	<1.00	<1.00	61	10
p-Dichlorobenzene	<1.00	<1.00	1	10
3,3'-Dichlorobenzidine	<5.00	<5.00	1	5
1,2-Dichloroethane	<1.00	<1.00	1	10
1,1-Dichloroethylene	<1.00	<1.00	1	10
Dichloromethane	<1.02	<1.02	1	20
1,2-Dichloropropane	<1.00	<1.00	1	10
1,3-Dichloropropene	<1.00	<1.00	1	10
Dicofol	<0.102	<0.102	1	1
Dieldrin	<0.0102	<0.0102	1	0.02
2,4-Dimethylphenol	<1.03	<1.03	1	10
Di-n-Butyl Phthalate	<7.76	<7.76	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Diuron	<0.0461	<0.0461	1	0.09
Endosulfan I (alpha)	<0.010	<0.010	1	0.01
Endosulfan II (beta)	<0.0102	<0.0102	1	0.02
Endosulfan Sulfate	<0.0102	<0.0102	1	0.1
Endrin	<0.0102	<0.0102	1	0.02
Ethylbenzene	<1.00	<1.00	1	10
Fluoride	130	130	1	500
Guthion	<0.0512	<0.0512	1	0.1
Heptachlor	<0.0102	<0.0102	1	0.01
Heptachlor Epoxide	<0.010	<0.010	1	0.01
Hexachlorobenzene	<1.03	<1.03	1	5
Hexachlorobutadiene	<1.03	<1.03	1	10
Hexachlorocyclohexane (alpha)	<0.0102	<0.0102	1	0.05
Hexachlorocyclohexane (beta)	<0.0102	<0.0102	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.0102	<0.0102	1	0.05
Hexachlorocyclopentadiene	<9.31	<9.31	1	10
Hexachloroethane	<1.03	<1.03	1	20
Hexachlorophene	<0.0254	<0.0254	6	10
Lead	<.500	<.500	1	0.5
Malathion	<0.0512	<0.0512	1	0.1

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Mercury	<0.0012	<0.0012	1	0.005
Methoxychlor	<0.0102	<0.0102	1	2
Methyl Ethyl Ketone	<1.00	<1.00	1	50
Mirex	<0.0154	<0.0154	1	0.02
Nickel	<2.00	<2.00	1	2
Nitrate-Nitrogen	5410	5410	1	100
Nitrobenzene	<1.03	<1.03	1	10
N-Nitrosodiethylamine	<1.03	<1.03	1	20
N-Nitroso-di-n-Butylamine	<1.03	<1.03	1	20
Nonylphenol	<30.3	<30.3	1	333
Parathion (ethyl)	<0.0512	<0.0512	1	0.1
Pentachlorobenzene	<1.03	<1.03	1	20
Pentachlorophenol	<1.03	<1.03	1	5
Phenanthrene	<1.03	<1.03	1	10
Polychlorinated Biphenyls (PCB's) (*3)	1.4	1.4	1	0.2
Pyridine	<5.58	<5.58	1	20
Selenium	<2.00	<2.00	1	5
Silver	<0.500	<0.500	1	0.5
1,2,4,5-Tetrachlorobenzene	<1.03	<1.03	1	20
1,1,2,2-Tetrachloroethane	<1.00	<1.00	1	10
Tetrachloroethylene	<1.00	<1.00	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Thallium	<.500	<.500	1	0.5
Toluene	<1.00	<1.00	1	10
Toxaphene	<0.205	<0.205	1	0.3
2,4,5-TP (Silvex)	<0.300	<0.300	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<1.00	<1.00	1	10
1,1,2-Trichloroethane	<1.00	<1.00	1	10
Trichloroethylene	<1.00	<1.00	1	10
2,4,5-Trichlorophenol	<1.03	<1.03	1	50
TTHM (Total Trihalomethanes)	<6.68	<6.68	1	10
Vinyl Chloride	<1.00	<1.00	1	10
Zinc	27.9	27.9	1	5

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

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

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☒ Composite ☐

Date and time sample(s) collected: December 13, 2023 13:35

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	<2.00	<2.00	1	5
Arsenic	0.682	0.682	1	0.5
Beryllium	<0.500	<0.500	1	0.5
Cadmium	<1.00	<1.00	1	1
Chromium (Total)	<1.00	<1.00	1	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Copper	2.55	2.55	1	2
Lead	<0.500	<0.500	1	0.5
Mercury	<0.00128	<0.00128	1	0.005
Nickel	<2.00	<2.00	1	2
Selenium	<2.00	<2.00	1	5
Silver	<0.500	<0.500	1	0.5
Thallium	<0.500	<0.500	1	0.5
Zinc	27.9	27.9	1	5
Cyanide (*2)	<2.38	<2.38	1	10
Phenols, Total	<1.55	<1.55	1	10

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

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

Table 4.0(2)B - Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	ND			50
Acrylonitrile	ND			50
Benzene	<1.00	<1.00	1	10
Bromoform	<1.00	<1.00	1	10
Carbon Tetrachloride	<1.00	<1.00	1	2
Chlorobenzene	<1.00	<1.00	1	10
Chlorodibromomethane	<1.00	<1.00	1	10
Chloroethane	<1.00	<1.00	1	50
2-Chloroethylvinyl Ether	<1.00	<1.00	1	10
Chloroform	3.68	3.68	1	10
Dichlorobromomethane [Bromodichloromethane]	<1.00	<1.00	1	10
1,1-Dichloroethane	<1.00	<1.00	1	10
1,2-Dichloroethane	<1.00	<1.00	1	10
1,1-Dichloroethylene	<1.00	<1.00	1	10
1,2-Dichloropropane	<1.00	<1.00	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1.00	<1.00	1	10
1,2-Trans-Dichloroethylene	<1.00	<1.00	1	10
Ethylbenzene	<1.00	<1.00	1	10
Methyl Bromide	<1.00	<1.00	1	50
Methyl Chloride	<1.00	<1.00	1	50
Methylene Chloride	<1.02	<1.02	1	20
1,1,2,2-Tetrachloroethane	<1.00	<1.00	1	10
Tetrachloroethylene	<1.00	<1.00	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Toluene	<1.00	<1.00	1	10
1,1,1-Trichloroethane	<1.00	<1.00	1	10
1,1,2-Trichloroethane	<1.00	<1.00	1	10
Trichloroethylene	<1.00	<1.00	1	10
Vinyl Chloride	<1.00	<1.00	1	10

Table 4.0(2)C - Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<1.03	<1.03	1	10
2,4-Dichlorophenol	<1.03	<1.03	1	10
2,4-Dimethylphenol	<2.48	<2.48	1	10
4,6-Dinitro-o-Cresol	<8.27	<8.27	1	50
2,4-Dinitrophenol	<9.31	<9.31	1	50
2-Nitrophenol	<1.03	<1.03	1	20
4-Nitrophenol	<1.03	<1.03	1	50
P-Chloro-m-Cresol	<2.48	<2.48	1	10
Pentalchlorophenol	<1.03	<1.03	1	5
Phenol	<1.55	<1.55	1	10
2,4,6-Trichlorophenol	<1.03	<1.03	1	10

Table 4.0(2)D - Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<1.03	<1.03	1	10
Acenaphthylene	<1.03	<1.03	1	10
Anthracene	<1.03	<1.03	1	10
Benzidine	<20.7	<20.7	1	50
Benzo(a)Anthracene	<1.03	<1.03	1	5
Benzo(a)Pyrene	<1.03	<1.03	1	5
3,4-Benzofluoranthene	<1.03	<1.03	1	10
Benzo(ghi)Perylene	<1.03	<1.03	1	20
Benzo(k)Fluoranthene	<1.03	<1.03	1	5
Bis(2-Chloroethoxy)Methane	<1.03	<1.03	1	10
Bis(2-Chloroethyl)Ether	<1.03	<1.03	1	10
Bis(2-Chloroisopropyl)Ether	<1.03	<1.03	1	10
Bis(2-Ethylhexyl)Phthalate	<7.76	<7.76	1	10
4-Bromophenyl Phenyl Ether	<1.03	<1.03	1	10
Butyl benzyl Phthalate	1.04	1.04	1	10
2-Chloronaphthalene	<1.03	<1.03	1	10
4-Chlorophenyl phenyl ether	<1.03	<1.03	1	10
Chrysene	<1.03	<1.03	1	5
Dibenzo(a,h)Anthracene	<1.03	<1.03	1	5
1,2-(o)Dichlorobenzene	<1.03	<1.03	1	10
1,3-(m)Dichlorobenzene	<1.03	<1.03	1	10
1,4-(p)Dichlorobenzene	<1.03	<1.03	1	10
3,3-Dichlorobenzidine	<5.00	<5.00	1	5
Diethyl Phthalate	<5.89	<5.89	1	10
Dimethyl Phthalate	<4.96	<4.96	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di-n-Butyl Phthalate	<7.76	<7.76	1	10
2,4-Dinitrotoluene	<3.62	<3.62	1	10
2,6-Dinitrotoluene	<1.03	<1.03	1	10
Di-n-Octyl Phthalate	<1.03	<1.03	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<1.03	<1.03	1	20
Fluoranthene	<1.03	<1.03	1	10
Fluorene	<1.03	<1.03	1	10
Hexachlorobenzene	<1.03	<1.03	1	5
Hexachlorobutadiene	<1.03	<1.03	1	10
Hexachlorocyclo-pentadiene	<9.31	<9.31	1	10
Hexachloroethane	<1.03	<1.03	1	20
Indeno(1,2,3-cd)pyrene	<1.03	<1.03	1	5
Isophorone	<1.03	<1.03	1	10
Naphthalene	<1.03	<1.03	1	10
Nitrobenzene	<1.03	<1.03	1	10
N-Nitrosodimethylamine	<7.24	<7.24	1	50
N-Nitrosodi-n-Propylamine	<1.03	<1.03	1	20
N-Nitrosodiphenylamine	<1.03	<1.03	1	20
Phenanthrene	<1.03	<1.03	1	10
Pyrene	<1.03	<1.03	1	10
1,2,4-Trichlorobenzene	<1.03	<1.03	1	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.010	<0.010	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.0102	<0.0102	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.0102	<0.0102	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.0102	<0.0102	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.0102	<0.0102	1	0.05
Chlordane	<0.0102	<0.0102	1	0.2
4,4-DDT	<0.0102	<0.0102	1	0.02
4,4-DDE	<0.0102	<0.0102	1	0.1
4,4,-DDD	<0.0102	<0.0102	1	0.1
Dieldrin	<0.0102	<0.0102	1	0.02
Endosulfan I (alpha)	<0.010	<0.010	1	0.01
Endosulfan II (beta)	<0.0102	<0.0102	1	0.02
Endosulfan Sulfate	<0.0102	<0.0102	1	0.1
Endrin	<0.0102	<0.0102	1	0.02
Endrin Aldehyde	<0.0102	<0.0102	1	0.1
Heptachlor	<0.0102	<0.0102	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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
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	<0.205	<0.205	1	0.3

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

Section 3. Dioxin/Furan Compounds

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

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

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

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

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

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

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

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

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:

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
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: 18

48-hour Acute: 9

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.

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
Biomonitoring test information is submitted to TCEQ by District Operator.			

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.

N/A

C. Treatment plant pass through

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

Yes ☐ No ☒

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

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☐ No ☒

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐ No ☒

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

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

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

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).

None

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.

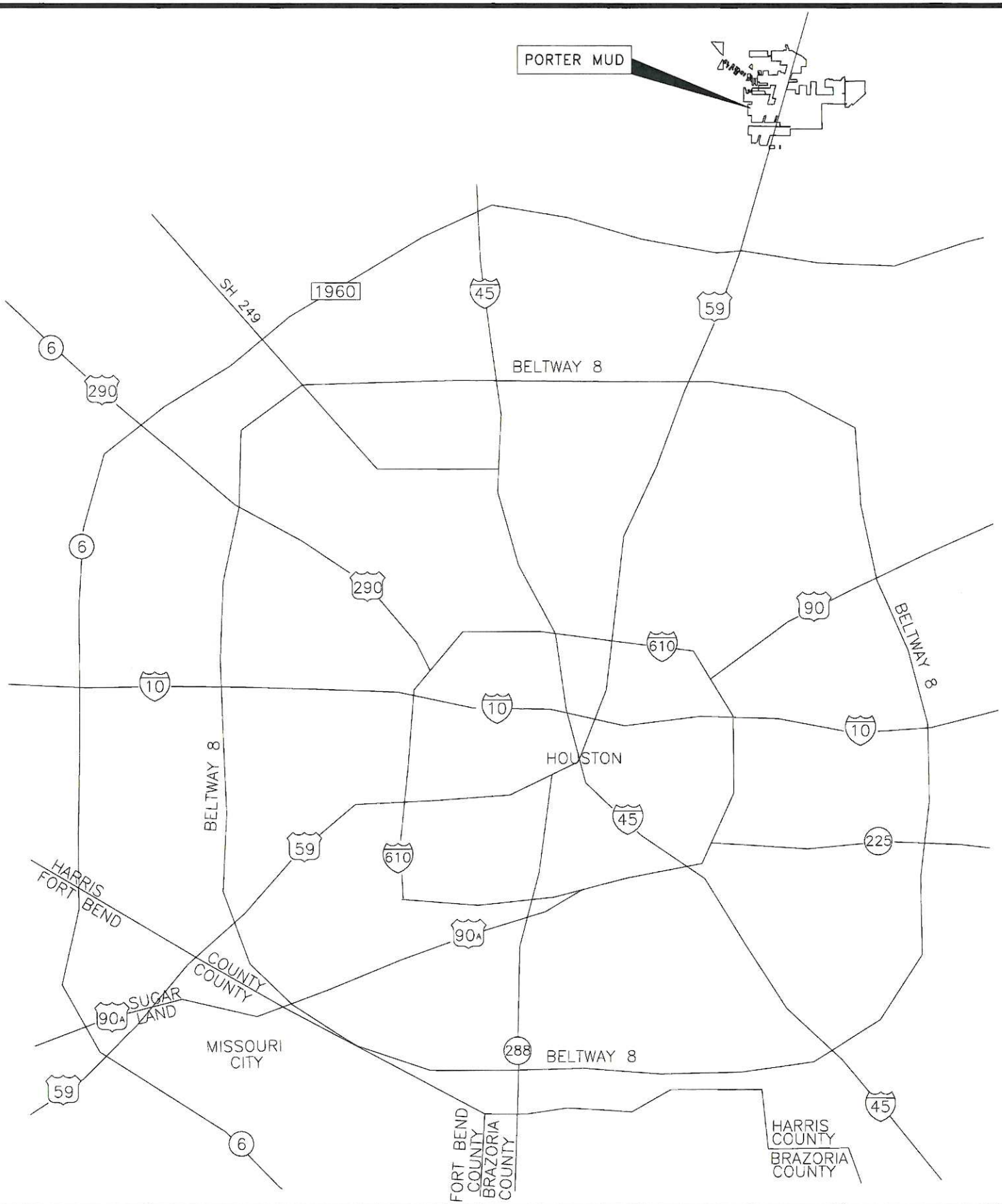
Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 1

LOCATION MAP
(Ref. AR 9)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802



PORTER MUNICIPAL UTILITY DISTRICT

WASTEWATER TREATMENT PLAN LOCATION MAP

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: N/A | DECEMBER 2023 | JOB NO: 130008.07

FILE: \\AS-FILE1.AWS.AS-ENGINEERS.COM\DRAWINGS\130008\130008.07\130008.07 LOCATION MAP.DWG December 6, 2023 - 3:21 PM jad

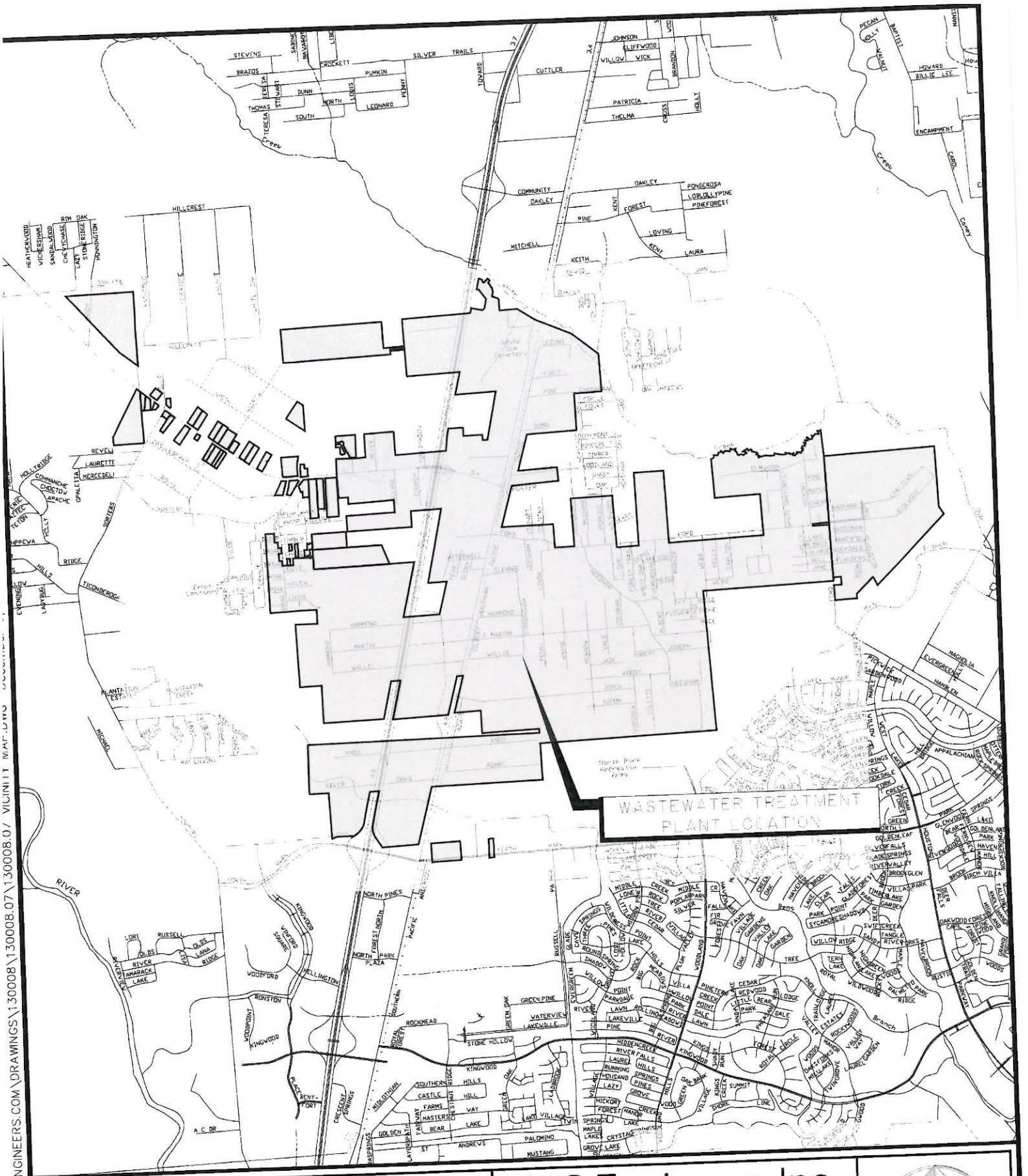
Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 2

VICINITY MAP
(Ref. AR 9)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802



PORTER MUNICIPAL UTILITY DISTRICT

WASTEWATER TREATMENT PLAN VICINITY MAP

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: N/A

DECEMBER 2023

JOB NO. 130008.07

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 3

DISCHARGE FLOW DIRECTION USGS MAP
(Ref AR 13)

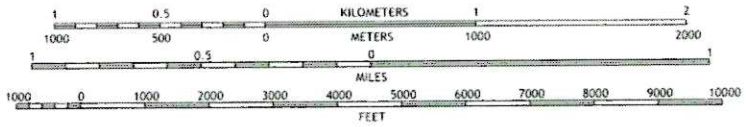
A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

USGS
science for a changing world

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

SCALE 1:24 000



PERMIT NO. WQ0012242-001
NPDES PERMIT NO. TX0084042
HARRIS COUNTY
PORTER MUD
PROJECT NO. 130008.05

EXHIBIT

HARRIS COUNTY
PORTER MUD DISTRICT BOUNDARY
WASTEWATER TREATMENT PLANT

USGS MAP

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

DECEMBER 2023

FILE: \\AS-FILE1.AWS.AS-ENGINEERS.COM\D

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 4

AFFECTED LANDOWNERS
(Ref. AR 1.1)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

Affected Landowners List

Tract	Owner Name	Mailing Address				Property Address	Mont CAD #
		Street	City	State	Zip		
1	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22371 Porter Mountain Trl	R503014
2	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22375 Porter Mountain Trl	R503015
3	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22379 Porter mountain Trl	R503016
4	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22383 Porter Mountain Trl	R503017
5	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22387 Porter Mountain Trl	R503018
6	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22391 Porter Mountain Trl	R503019
7	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22395 Porter Mountain Trl	R503020
8	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22399 Porter Mountain Trl	R503021
9	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22403 Porter Mountain Trl	R503022
10	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22407 Porter Mountain Trl	R503023
11	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22411 Porter Mountain Trl	R503024
12	Brooklyn Homeowners Association INC	11000 Corporate Centre Dr STE 150	Houston	TX	77041	22415 porter Mountain Trl	R503127
13	ABV Group Investment LLC	8814 Everheart Ln	Houston	TX	77040	24910 Penny Ln	R57957
14	Josephine Salmon Robison	919 Saint Andrews Rd	Humble	TX	77339	Birch St, Porter, TX, 77365	R57958
15	Porter MUD	10000 Memorial Dr APT 260	Houston	TX	77024	Claremont Hills Ln, Porter, TX, 77365	R507373
16	Robert M Wood	PO Box 2030	Woodville	TX	75979	25247 Kelly Rd	R49498
17	RPEP Kelly Estates LLC	1623 Scenic Shore Dr	Kingwood	TX	77345	Argonne Woods Dr, Porter, TX, 77365	R57961
18	Artemio Muniz	10202 Jensen Dr	Houston	TX	77093	22487 E Knox Dr	R128613
19	Taylor & Dallin Sleeman	22492 E Knox Dr.	Porter	TX	77365	22492 E Knox Dr	R128631
20	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Argonne Woods Dr, Porter, TX, 77365	R434362
21	Beverly A Dobrinski	22502 Adams St	Porter	TX	77365	22502 Adams St	R60148
22	Beverly A Dobrinski	22502 Adams St	Porter	TX	77365	22502 Adams St	R60165
23	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Argonne Woods Dr, Porter, TX, 77365	R434363
24	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Adams St, Porter, TX, 77365	R434364
25	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Woodridge Pkwy, Porter, TX, 77365	R434354
26	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Not Found On Map*	R470828
27	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Soaring Woods Ln, Porter, TX, 77365	R455300
28	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Soaring Woods Ln, Porter, TX, 77366	R434365
29	Wooddridge MUD	3200 SW Fwy #2600	Houston	TX	77027	25241 Autumn Water St	R505292
30	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	22570 Soaring Woods LN	R505293
31	Northpark Mercer LLC	2461 N Stemmons Fwy	Dallas	TX	75207	1823 Northpark DR	R280019
32	McFadden Properies	1611 Scenic Shore Dr.	Humble	TX	77345	Northpark Dr, Kingwood, TX, 77339	R43993
33	Jim R Cole	1984 Highway 71	Columbus	TX	78934	Northpark Dr, Kingwood, TX, 77340	R231819
34	Jim R Cole	1984 Highway 71	Colombus	TX	78934	1965 Northpark Dr	R219244

PORTER MUNICIPAL UTILITY DISTRICT

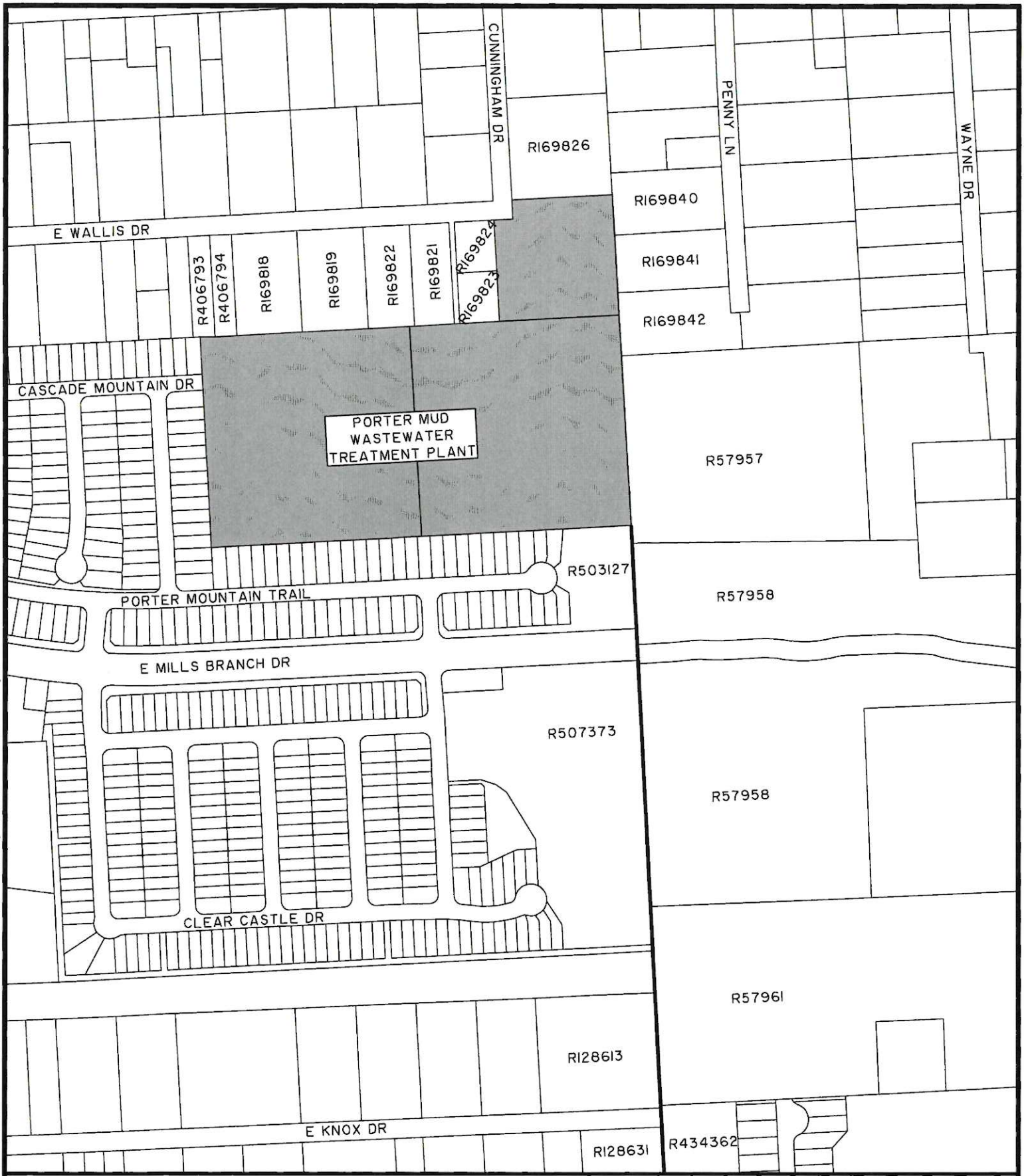
AFFECTED LAND OWNERS OVERALL MAP (SHEET 1 OF 3)

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

N

NOT TO SCALE | FEBRUARY 2024 | JOB NO:130008.07

FILE: H:\130008\130008.07\130008.07 AFFECTED LAND OWNERS.DWG February 1, 2024 - 4:30 PM jad



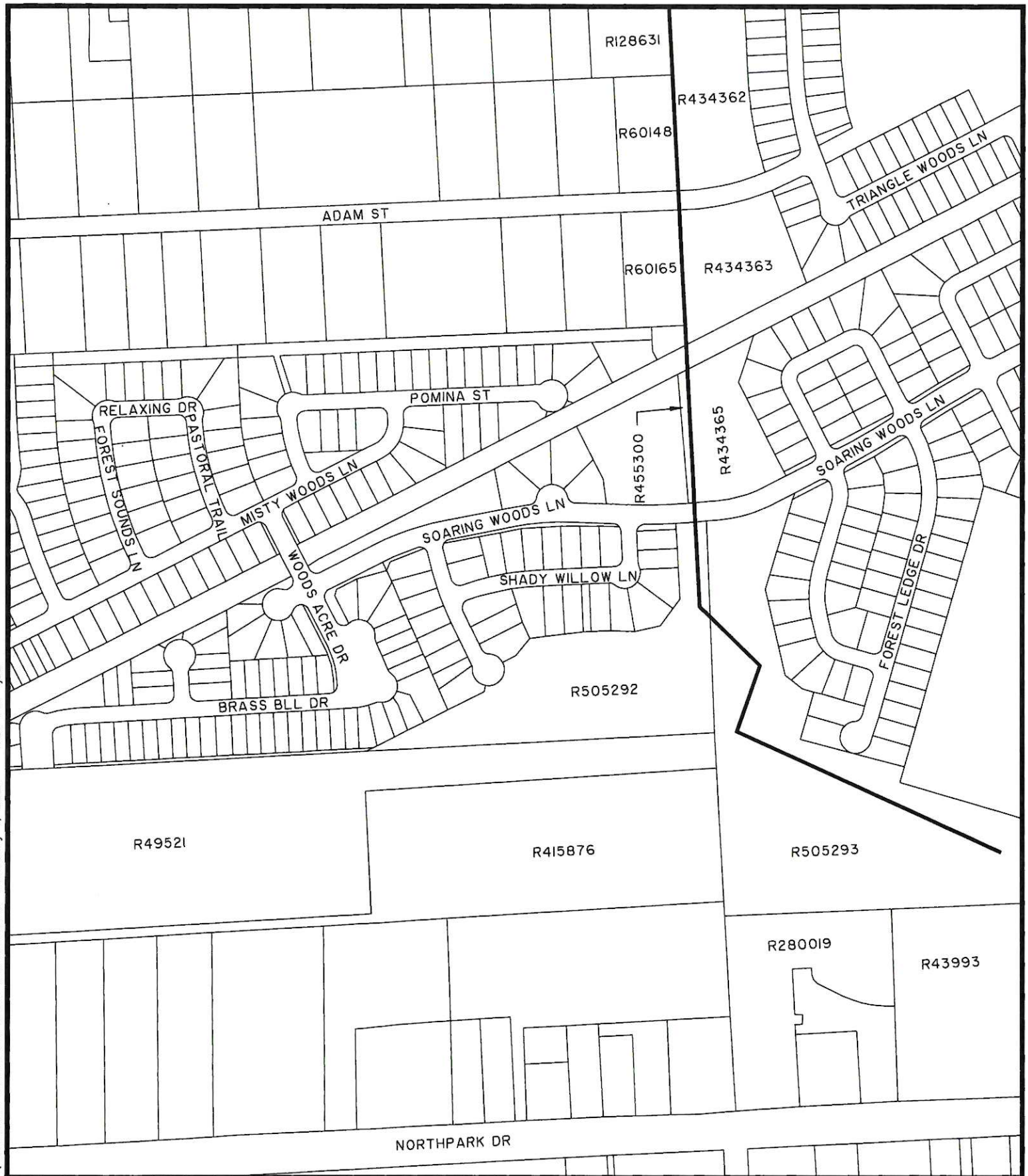
PORTER MUNICIPAL UTILITY DISTRICT

AFFECTED LAND OWNERS (SHEET 2 OF 3)

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: 1" = 400' | FEBRUARY 2024 | JOB NO:130008 07

FILE: H:\130008\130008.07\130008.07 AFFECTED LAND OWNERS.DWG February 1, 2024 - 4:31 PM jad



PORTER MUNICIPAL UTILITY DISTRICT

AFFECTED LAND OWNERS (SHEET 3 OF 3)

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: 1" = 400' | FEBRUARY 2024 | JOB NO:130008 07

FILE: H:\130008\130008.07\130008.07 AFFECTED LAND OWNERS.DWG February 1, 2024 - 4:31 PM jad

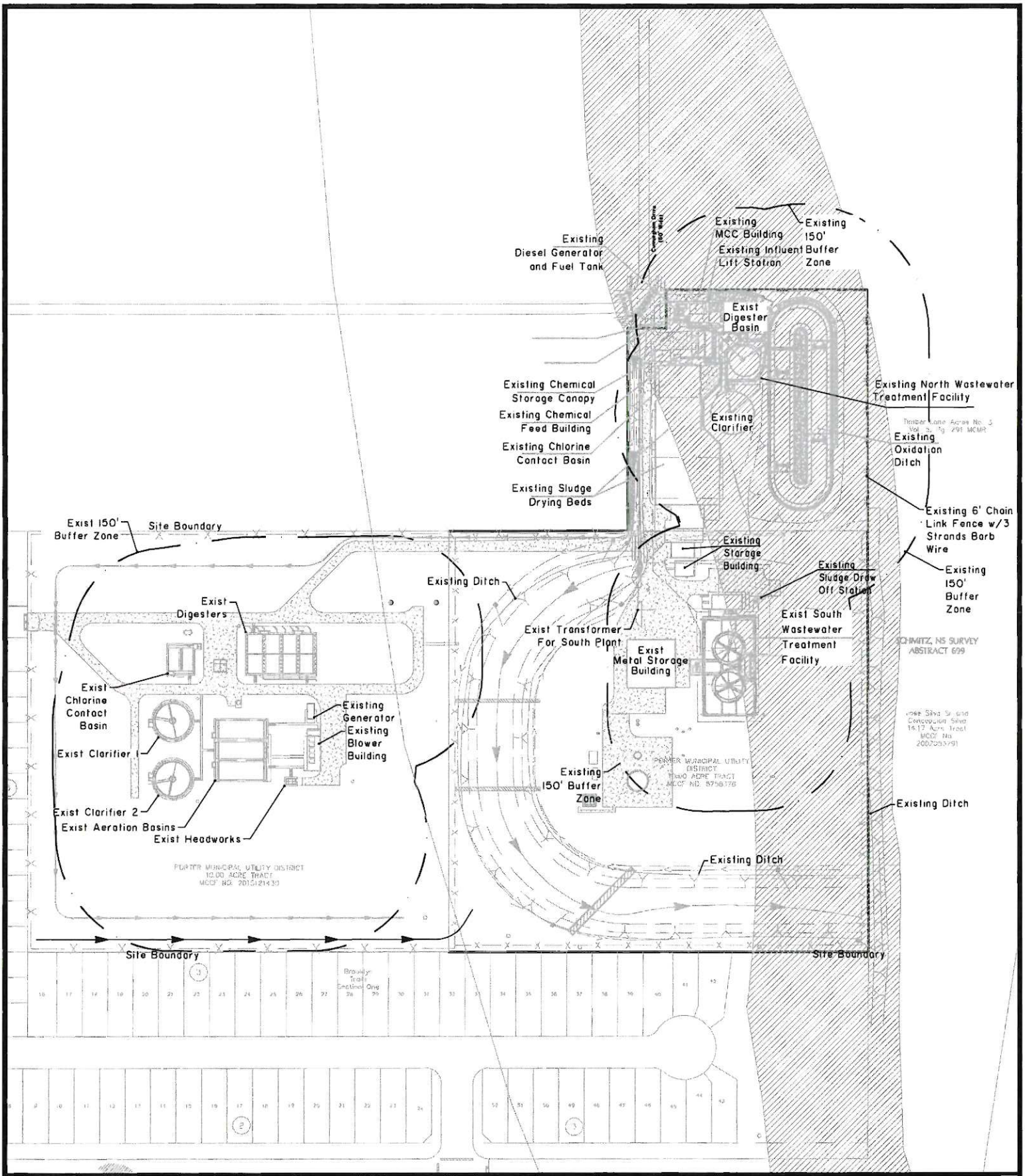
Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 5

BUFFER ZONE MAP
(Ref. AR 1.1, 2a & 2b)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802



PORTER MUNICIPAL UTILITY DISTRICT

BUFFER ZONE

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: 1" = 200' | FEBRUARY 2024 | JOB NO:130008 07

FILE: H:\130008\130008.07\130008.07 BUFFER ZONE.DWG February 13, 2024 - 12:18 PM kwm

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 6

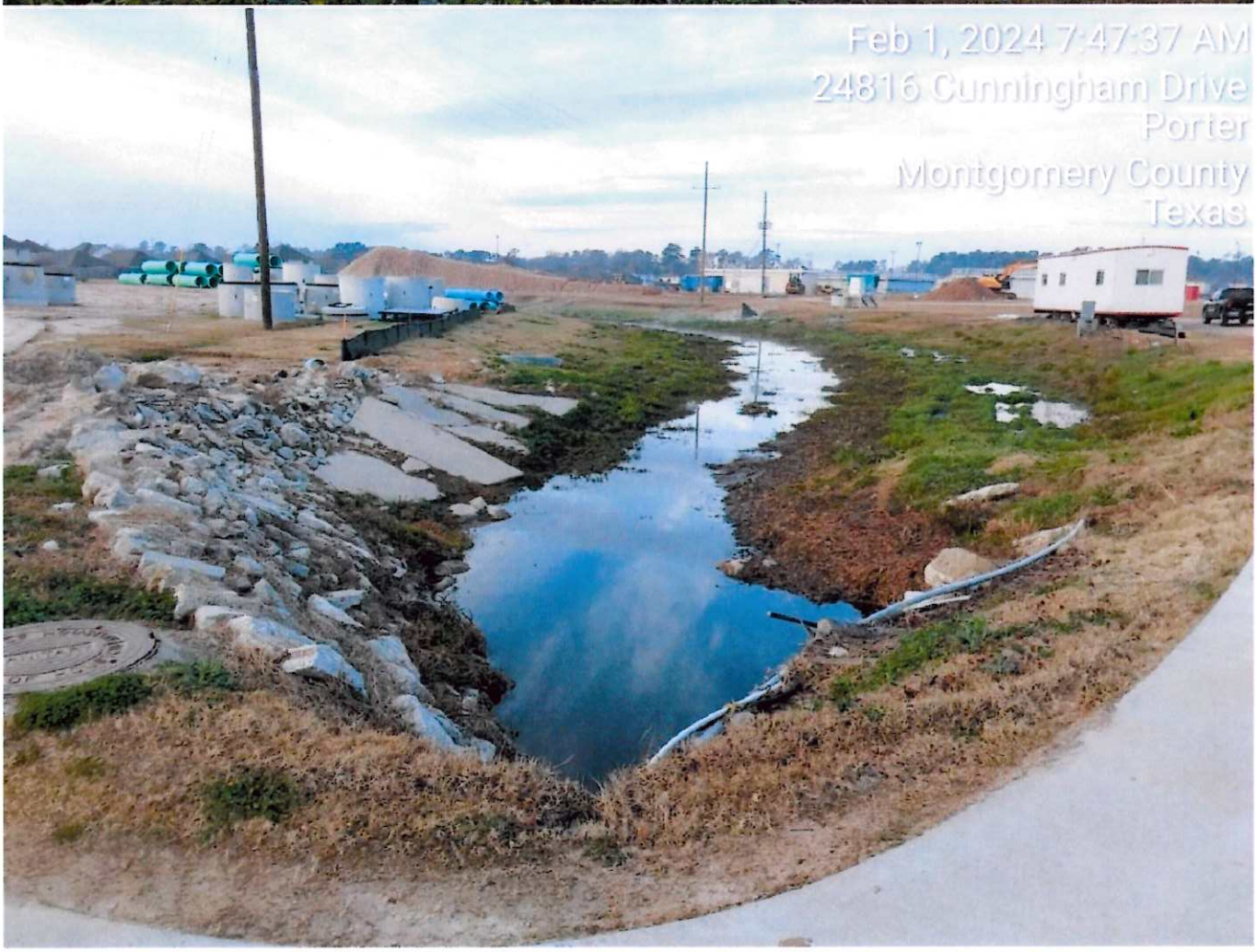
PHOTOGRAPHS
(Ref. AR 1.1, 3)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802


E Wallis Dr
E Wallis Dr
OUTFALL
Santias Valley Dr
N
Google Earth


Feb 1, 2024 7:53:35 AM
24816 Cunningham Drive
Porter
Montgomery County
Texas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24816 Cunningham Drive
Porter
Montgomery County
Texas


Feb 1, 2024 7:53:31 AM
24816 Cunningham Drive
Porter
Montgomery County
Texas

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 7

TREATMENT UNITS
(Ref. TR 2b)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

PORTER MUD WWTP
TREATMENT UNITS

Existing Phase (1.6 MGD)

NORTH PLANT - 0.80 MGD OXIDATION DITCH

Mechanical Fine Screen			
Oxidation Ditch	42' width x 700' length x 4' SWD	=	119,300 CF
Clarifier # 1	46' diameter = 1,662 SF surface x 9' SWD	=	14,957 CF
Clarifier # 2	65' diameter = 3,318 SF x 12' SWD	=	39,816 CF
Digester	46' diameter = 1,662 SF surface x 10' SWD	=	16,619 CF
Disinfection Basin	623.72 SF x 14.5' SWD	=	9,043 CF
Sludge Drying Bed	Two (2) 47.33' x 50.33'	=	4,764 SF

SOUTH PLANT "A" - 0.40 MGD Train #1

Mechanical Fine Screen	*			
Selector Basin	*	610.92 SF x 14.5' SWD	=	8,858 CF
Aeration Basin		One (1) 1,696.94 SF x 14' SWD	=	23,757 CF
Clarifier		One (1) 50' Diameter = 1,963.5 SF x 12.88' SWD	=	25,290 CF
Sludge Thickener	*	12' Diameter = 113.1 SF x 14.5' SWD	=	1,640 CF
Aerobic Digester	*	One (1) 2,168 SF x 15.75' SWD	=	34,146 CF
Disinfection Basin	*	One (1) 675 SF x 10.6' SWD	=	7,155 CF
Sludge Drying Bed		Two (2) 47.33' x 50.33'	=	4,764 SF

SOUTH PLANT "A" - 0.40 MGD Train #2

Aeration Basin	One (1) 1,696.94 SF x 14' SWD	=	23,757 CF
Clarifier	One (1) 50' Diameter = 1,963.5 SF x 12.88' SWD	=	25,290 CF
Sludge Drying Bed	Two (2) 47.33' x 50.33'	=	4,764 SF

* *Services both TRAIN # 1 and TRAIN # 2*

Interim Phase I (2.4 MGD)

West Plant - 1.60 MGD

Mechanical Fine Screen			
Aeration Basin	Three (3) 2,100 x 15.12' SWD	=	95,256 CF
Clarifier	Two (2) 60' Diameter = 2,827.5 SF x 12.88' SWD	=	72,835 CF
Aerobic Digester	Eight (8) 750 x 15.75' SWD	=	94,500 CF
Disinfection Basin	Two (2) 630 SF x 10.6' SWD	=	13,356 CF

(1) Including South Plant "B"

(2) North Plant to be converted into equalization basin

Proposed Interim Phase II (4.0 MGD)

West Plant Expansion - Additional 1.60 MGD

Aeration Basin	Three (3) 2,100 SF x 15.12' SWD	=	95,256 CF
Clarifier	Two (2) 60' Diameter = 2,827.5 SF x 12.88' SWD	=	72,835 CF
Aerobic Digester	Four (4) 750 SF x 15.75' SWD	=	47,250 CF
Disinfection Basin	Two (2) 630 SF x 10.6 SWD	=	13,356 CF

PORTER MUD WWTP
TREATMENT UNITS

Proposed Interim Phase III (5.0 MGD)

West Plant Expansion - Additional 1.00 MGD

Aeration Basin	Two (2) 2,100 SF x 15.12' SWD	=	63,504 CF
Clarifier	Two (2) 60' Diameter = 2,827.5 SF x 12.88' SWD	=	72,835 CF
Aerobic Digester	Four (4) 750 SF x 15.75' SWD	=	47,250 CF
Disinfection Basin	One (1) 630 SF x 10.6' SWD	=	6,678 CF

*Oxidation Ditch to be demolished

Proposed Final Phase (6.0 MGD)

South Plant "B" - 1.00 MGD

Aeration Basin	Two (2) 2,100 SF x 15.12' SWD	=	63,504 CF
Clarifier	Two (2) 60' Diameter = 2,827.5 SF x 12.88' SWD	=	72,835 CF
Aerobic Digester	Four (4) 750 SF x 15.75' SWD	=	47,250 CF
Disinfection Basin	One (1) 630 SF x 10.6' SWD	=	6,678 CF

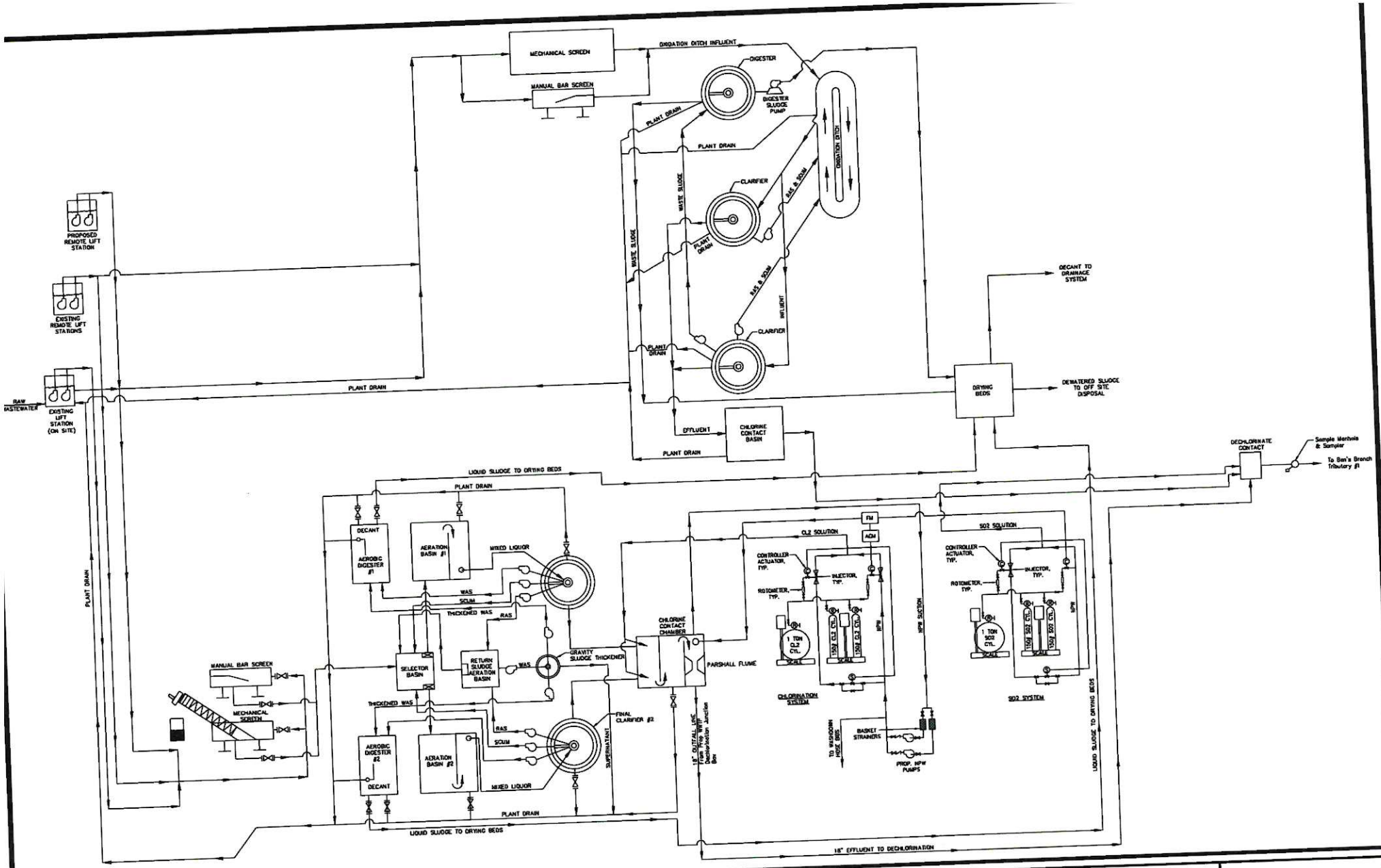
Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 8A, 8B, & 8C

SCHEMATICS OF WASTEWATER FLOW
(Ref. TR 2C)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802



PORTER MUNICIPAL UTILITY DISTRICT

EXHIBIT 8A
EXISTING SCHEMATIC FLOW DIAGRAM

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: NOT TO SCALE

DECEMBER 2023

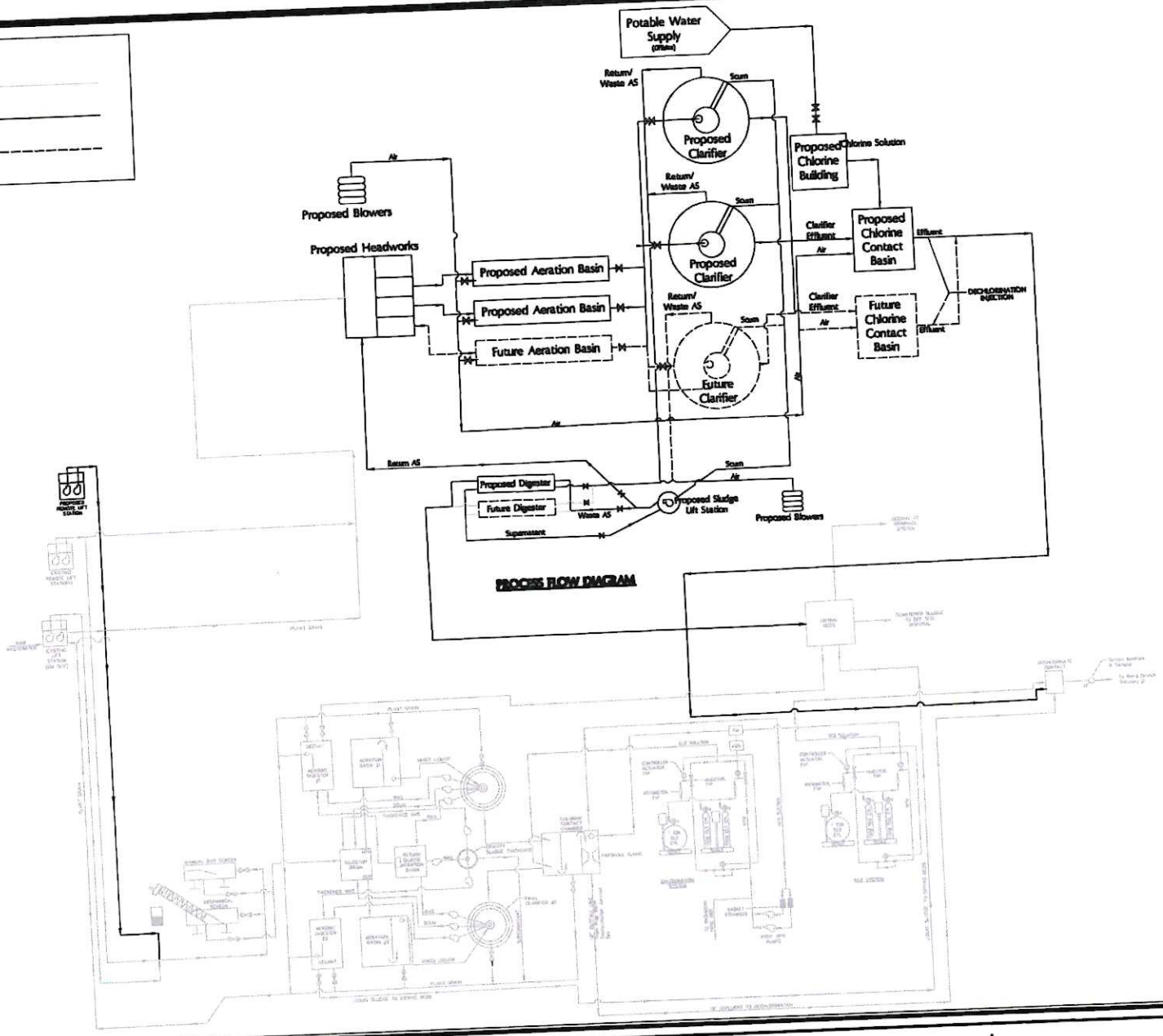
JOB NO: 130008 07

LEGEND

EXISTING

INTERIM PHASE I (2.4 MGD)

INTERIM PHASE II (4.0 MGD)

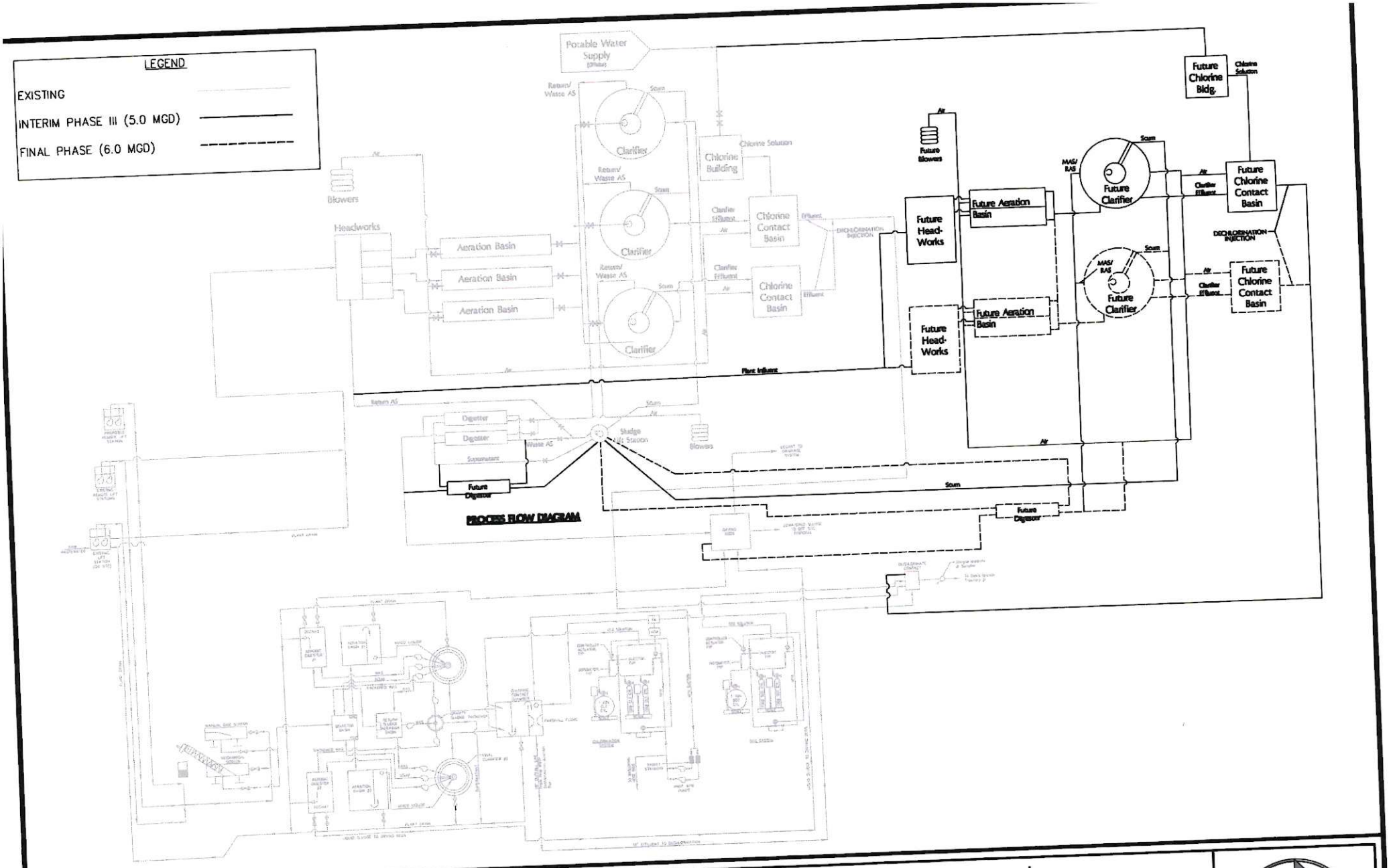


PORTER MUNICIPAL UTILITY DISTRICT

EXHIBIT 8B
INTERIM PHASE I (2.4 MGD) AND INTERIM PHASE II (4.0 MGD) SCHEMATIC FLOW DIAGRAM

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: NOT TO SCALE | DECEMBER 2023 | JOB NO: 130008 07



PORTER MUNICIPAL UTILITY DISTRICT

EXHIBIT 8C
INTERIM PHASE III (5.0 MGD) AND FINAL PHASE (6.0 MGD) SCHEMATIC FLOW DIAGRAM

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: NOT TO SCALE | DECEMBER 2023 | JOB NO: 130008 07

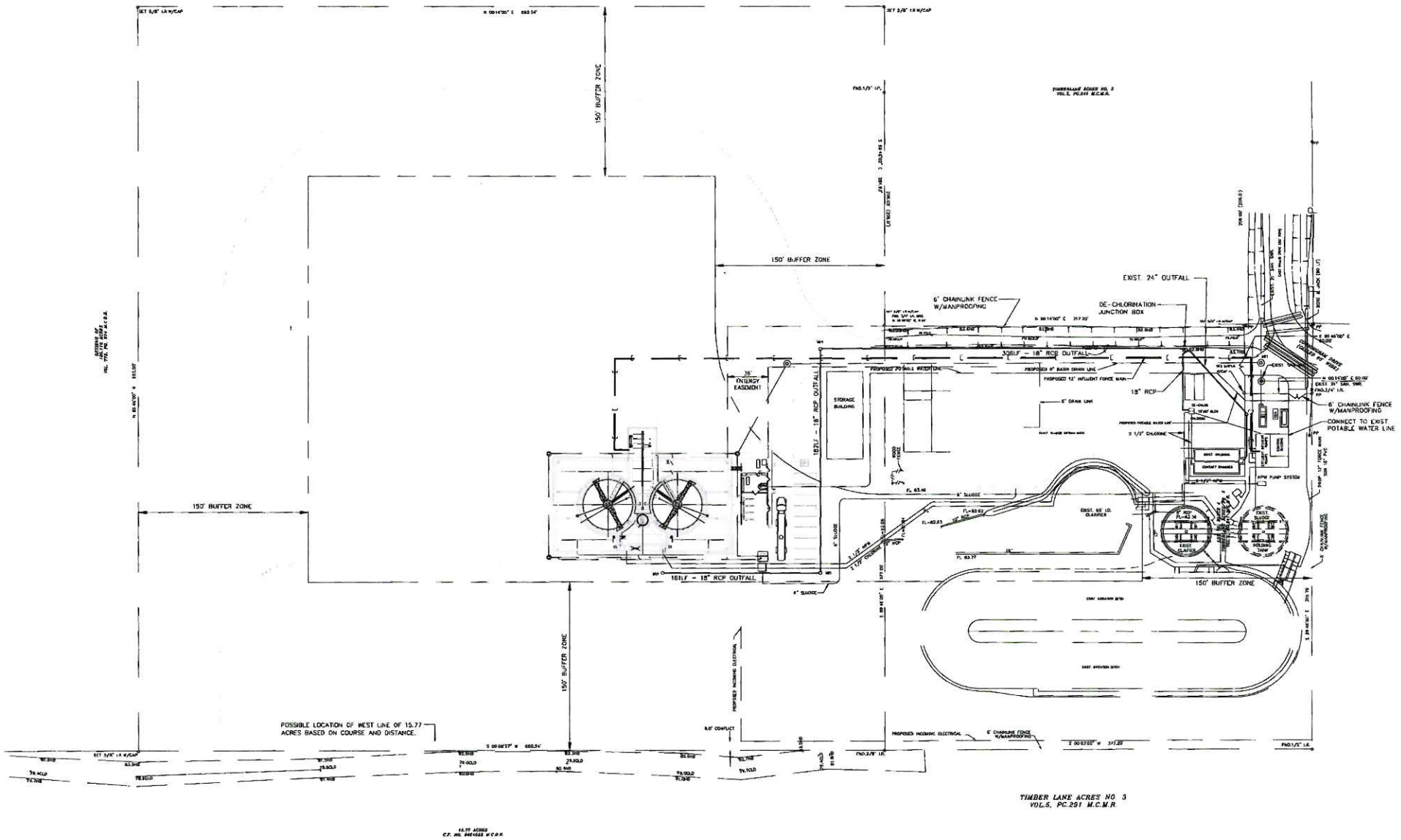
Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 9A, 9B, & 9C

SITE PLANS
(Ref. TR 3)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

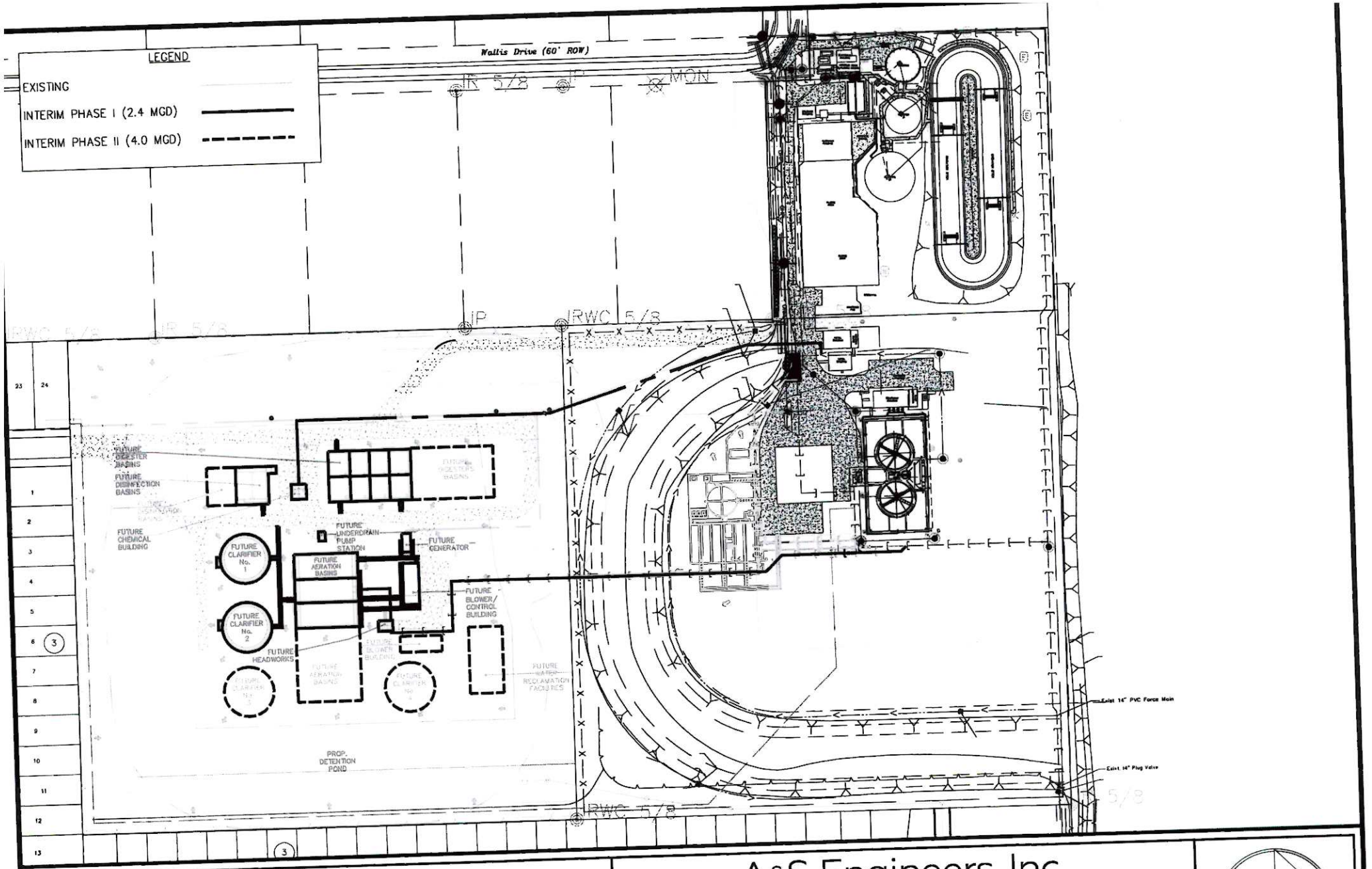


PORTER MUNICIPAL UTILITY DISTRICT

EXHIBIT 9A
EXISTING SITE PLAN

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: NOT TO SCALE | DECEMBER 2023 | JOB NO: 13000807

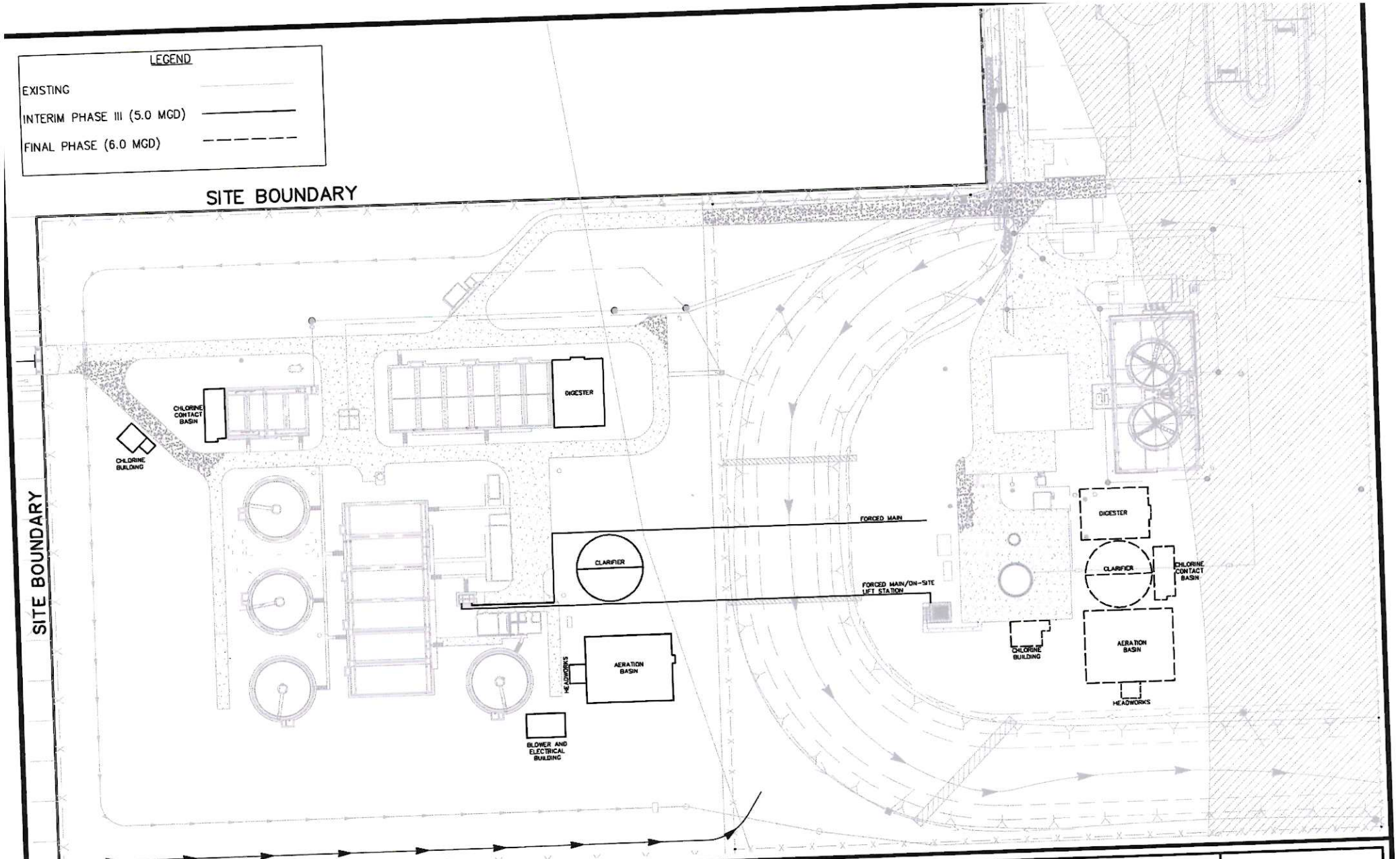


PORTER MUNICIPAL UTILITY DISTRICT

EXHIBIT 9B
INTERIM PHASE I (2.4 MGD) AND INTERIM PHASE II (4.0 MGD) SITE PLAN

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: NOT TO SCALE | DECEMBER 2023 | JOB NO: 130008 07



PORTER MUNICIPAL UTILITY DISTRICT

EXHIBIT 9C
INTERIM PHASE III (5.0 MGD) AND FINAL PHASE (6.0 MGD) SITE PLAN

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: NOT TO SCALE | DECEMBER 2023 | JOB NO: 130008 07

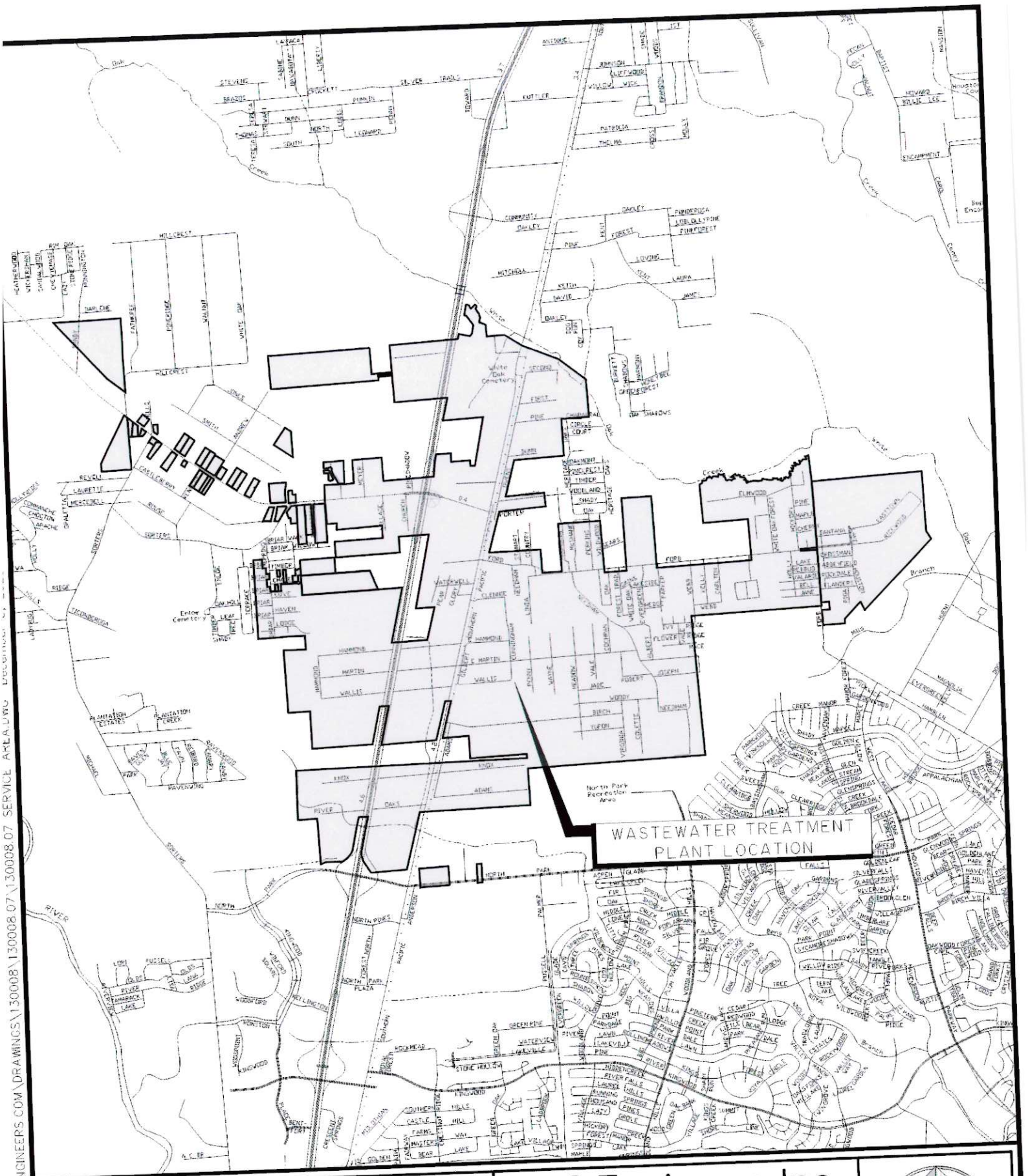
Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 10

SERVICE AREA
(Ref. TR 3)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802



PORTER MUNICIPAL UTILITY DISTRICT

WASTEWATER TREATMENT PLAN SERVICE AREA

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: N/A | DECEMBER 2023 | JOB NO: 130008.07

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 11

CORE DATA FORM
(Ref. TR 3c)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*

CN 600792717

Follow this link to search for CN or RN numbers in Central Registry**

3. Regulated Entity Reference Number *(if issued)*

RN 101516920

SECTION II: Customer Information

4. General Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy)

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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

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

If new Customer, enter previous Customer below:

Porter Municipal Utility District

7. TX SOS/CPA Filing Number

8. TX State Tax ID (11 digits)

9. Federal Tax ID (9 digits)

10. DUNS Number *(if applicable)*

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☒ Other ☐ Sole Proprietorship ☒ Other: MUD

12. Number of Employees

☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☐ Yes ☒ No

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

☒ Owner ☒ Operator ☐ Owner & Operator ☐ Other:

☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

RECEIVED FEB 26 2024 Water Quality Applications Team

15. Mailing Address:

P.O. Box 1030

City Porter **State** TX **ZIP** 77365 **ZIP + 4**

16. Country Mailing Information *(if outside USA)*

17. E-Mail Address *(if applicable)*

kmcclain@portermud.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(281) 354-9352		(281) 354-1088

SECTION III: Regulated Entity Information

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

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

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

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

Porter Municipal Utility District Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	24816 Cunningham Drive							
	City	Porter	**State**	TX	**ZIP**	77365	**ZIP + 4**	
24. County	Montgomery							

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
Porter			TX		77365

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

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

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		22132	

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

Serves to treat wastewater from Porter

34. Mailing Address:	**P.O. Box 1030**							
	City	**Porter**	**State**	**TX**	**ZIP**	**77365**	**ZIP + 4**	
35. E-Mail Address:								

RECEIVED FEB 26 2024 Water Quality Applications Team

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 354-9352		**(281) 354-1088**

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0012242001			

SECTION IV: Preparer Information

40. Name:	Eric Williams, PE		41. Title:	Project Engineer
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**	
(713) 942-2700		(713) 942-2799	elw@as-engineers.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:	Porter Municipal Utility District	Job Title:	President	
Name *(In Print)*:	R. Wayne Curry	Phone:	(281)354 9352	
Signature:	R Wayne Curry	Date:	1/16/2024	

RECEIVED
FEB 26 2024
Water Quality Applications Team

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 12

TREATMENT PROCESS
(Ref. TR 2A)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

PORTER MUNICIPAL UTILITY DISTRICT
WWTP PERMIT RENEWAL

TREATMENT PROCESS

The Porter Municipal Utility District Wastewater Treatment Facility is currently operated utilizing two (2) activated sludge process type plants; Plant "A" & Plant "B". Plant "A" is an oxidation ditch which utilizes an extended aeration process. Plant "B" is conventional plug type flow WWTP which uses diffused aeration and has two equal parallel aeration and clarifier tank systems: Train # 1 and Train #2. The two plants are served by a joint chlorine disinfection and sulfur dioxide de-chlorination facility. The following is a discussion on the process utilized by Plant "A" and by Plant "B".

Existing Phase - 1.60 MGD

Plant "A"- Oxidation Ditch – Extended Aeration

Influent enters Plant "A" through a fine solids screen or manual bar screen and discharges into an Oxidation Ditch that is designed to provide 0.800 MGD biological treatment. Aeration and mixing is provided by brush aerators which mix rotating the fluids around the Oxidation Ditch. Waste is transferred over a weir into two (2) clarifiers for solids settling. Clarified water is held in the Chlorine Contact Basin for at least 20-minutes under peak flow conditions and is contacted at the upstream end of the basin with chlorination water using chlorine gas mixed with water. Air is introduced into the chlorine contact basin to promote mixing and to boost dissolved oxygen prior to discharge over the final V-notch weir and dechlorination. Effluent flow is monitored using ultrasonic monitoring devices at twin V-notch weirs and chart recorders. Treated effluent is joined by effluent from Plant "B" prior to dechlorination and then discharge into Bens Branch Tributary #1 through an 18-inch gravity pipe.

Scum from the Plant "A" clarifier is removed to a scum box connected to the clarifier. Scum and solids from the clarifier are either returned to the Oxidation Ditch for further treatment or transferred to the Digester for solids and pathogen reduction. The transfer of these solids is accomplished through the use of air lift pumps. Periodically the aeration is turned off in the Digester and solids are allowed to settle. The Digester's clear water (supernatant) is removed from the surface and returned to the on-site influent lift station Solids are pumped to the Drying Beds or are wet hauled by a TCEQ licensed transporter to a registered disposal site or a treatment facility. The sludge which is pumped from the digester is mixed with a dewatering polymer in route and dewatered using synthetic plate filter Drying Beds. Dewatered solids are removed to dumpsters for disposal at TCEQ registered land fill sites.

Plant "A" is equipped with and Emergency Power Generator for operation of the facility during power outages.

Plant "B" – Diffused Aeration Mixed Liquor Conventional Mode WWTP Train #1

Plant "B" consists of two (2) parallel treatment facilities each with a capacity of 0.400 MGD. Wastewater is introduced into the headworks through either manual or mechanical fine solids screens. The wastewater then flows into an aerated Selector Basin where it is mixed with the Return Activated Sludge (RAS) and then flows into either Train #1 Aeration Basin or Train #2 Aeration Basin. Following the path of waster through Train #1, the mixed liquor is aerated by fine bubble air diffusion and then transferred into the Train #1 Clarifier for settling. Clarified water is removed from the Clarifier over V-notch weirs and transferred into the Chlorine Contact Basin used jointly by Train # 1 and Train # 2. Clarified water is held in the Chlorine Contact Basin for at least 20-minutes under peak flow conditions and is contacted at the upstream end of the chlorination tank with chlorination water using chlorine gas mixed with water. Air is introduced into the chlorine contact basin to promote mixing and to enhance dissolved oxygen prior to discharge over the final parshall flume and subsequent dechlorination at a junction box located near Plant "A". Effluent flow is monitored using ultrasonic monitoring devices and chart recorders. Treated effluent is joined by effluent from Plant "A" and the combined flow is dechlorinated using sulfur dioxide gas dechlorinator prior to discharge into Bens Branch Tributary #1 through an 18-inch gravity pipe.

Scum from the Plant "B" Train #1 Clarifier is removed to a scum box connected to the clarifier and is then is transferred to the Digester for treatment and removal. Solids from the clarifier are transferred to the Gravity Thickener for thickening and then on to the Digesters for treatment and removal. The transfer of these solids is accomplished through the use of air lift pumps. After sufficient processing, air treatment and mixing, treatment is halted in the Digester and solids are allowed to settle. Supernatant is removed from the surface and returned to the treatment process. Solids in the Digester are either pumped to the covered Drying Beds via a variable speed drive diaphragm pump or wet hauled by a TCEQ licensed transporter to a registered disposal site or a treatment facility. Digested sludge from the digesters is mixed with a polymer and is dewatered using covered synthetic gravity filter screen plate type drying beds. Dewatered solids are removed to dumpsters for disposal at TCEQ registered land fill sites. Aeration is provided using multiple blowers for operation of coarse and fine bubble air diffusers and all air lift pumps.

Plant "B" is equipped with an Emergency Power Generator for operation of both Train # 1 and Train #2 during power outages.

Plant "B"–Diffused Aeration Mixed Liquor Conventional Mode WWTP T Train #2

Following the path of waster through Train #2, the waste is aerated by fine bubble air diffusion and then transferred into the Train #2 Clarifier for settling. Clarified water is removed from the Clarifier over V-notch weirs and transferred into the Chlorine Contact Basin used jointly by Train # 1 and Train # 2. Clarified water is held in the Chlorine

Contact Basin for at least 20-minutes under peak flow conditions and is contacted at the upstream end of the chlorination tank with chlorination water using chlorine gas mixed with water. Air is introduced into the chlorine contact basin to promote mixing and to enhance dissolved oxygen prior to discharge over the final parshall flume and subsequent dechlorination at a junction box located near Plant "A". Effluent flow is monitored using ultrasonic monitoring devices and chart recorders. Treated effluent is joined by effluent from Plant "A" and the combined flow is dechlorinated using sulfur dioxide gas dechlorinator prior to discharge into Bens Branch Tributary #1 through an 18-inch gravity pipe.

Scum from the Plant "B" Train #2 Clarifier is removed to a scum box connected to the clarifier and is then is transferred to the Digester for treatment and removal. Solids from the clarifier are transferred to the Gravity Thickener for thickening and then on to the Digesters for treatment and removal. The transfer of these solids is accomplished through the use of air lift pumps. After sufficient processing, air treatment and mixing, treatment is halted in the Digester and solids are allowed to settle. Supernatant is removed from the surface and returned to the treatment process. Solids in the Digester are either pumped to the covered Drying Beds via a variable speed drive diaphragm pump or wet hauled by a TCEQ licensed transporter to a registered disposal site or a treatment facility. Digested sludge from the digesters is mixed with a polymer and is dewatered using covered synthetic gravity filter screen plate type drying beds. Dewatered solids are removed to dumpsters for disposal at TCEQ registered land fill sites. Aeration is provided using multiple blowers for operation of coarse and fine bubble air diffusers and all air lift pumps.

Plant "B" is equipped with an Emergency Power Generator for operation of both Train # 1 and Train #2 during power outages.

Interim Phases I, II, II and Final – 2.40 MGD, 4.00 MGD, 5.00 MGD, and 6.0 MGD

The two existing facilities provide a total of 1.60 MGD capacity. The district is pursuing expansion and modification of these facilities by adding a new, phased, reinforced concrete facility for an additional 4.40 MGD. The future concrete facility will utilize an activated sludge system, complete mix mode. Process units to include screening, aeration, clarification, aerobic digestion, gravity thickener, disinfection, effluent metering, emergency power generator, and off-site disposal of solid residues. The future facility will include demolition of the oxidation ditches. The existing and proposed facilities together will have a total of 6.0 MGD capacity.

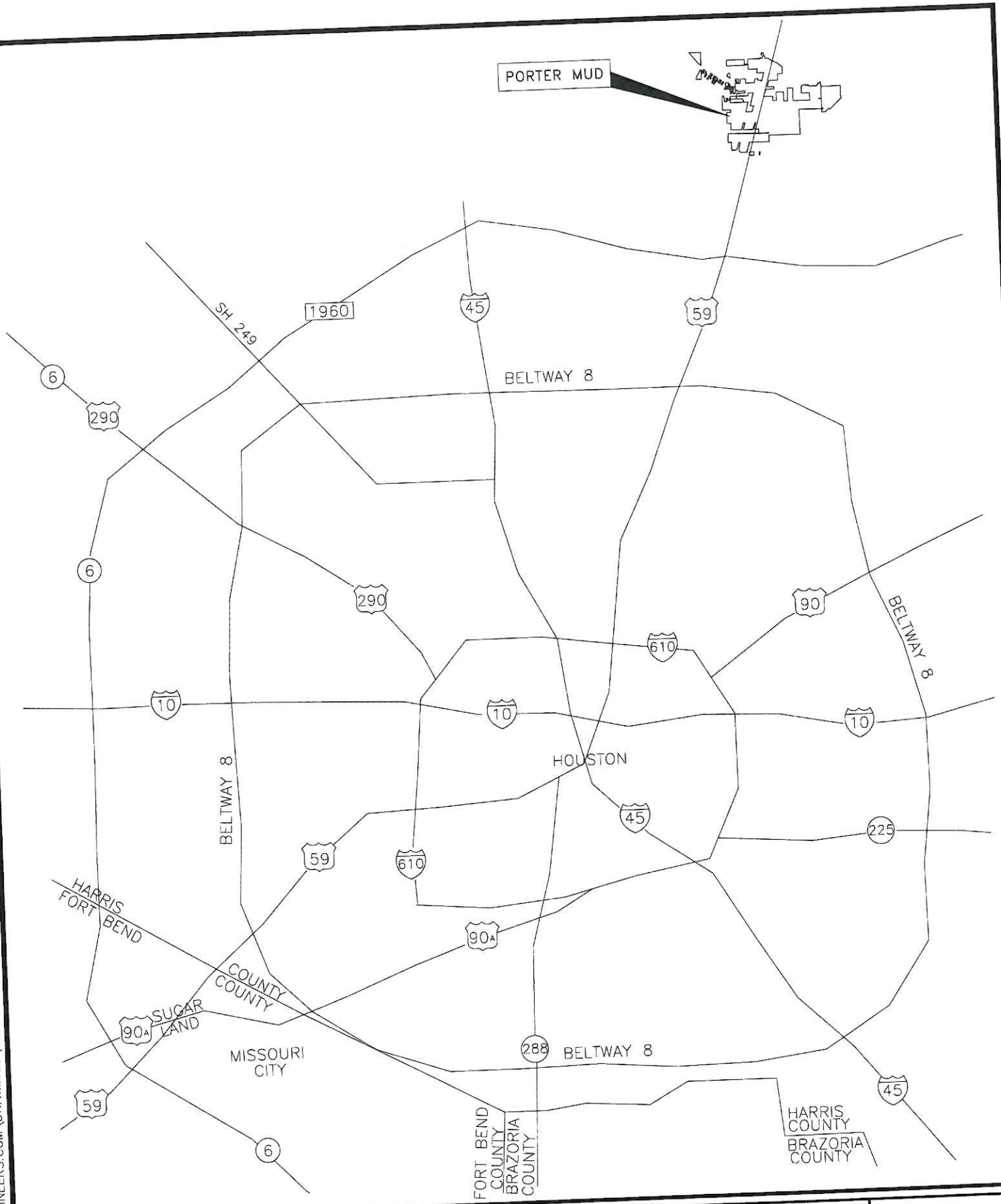
Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 13

LOCATION MAP
(Ref. SPIF 8)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802



PORTER MUNICIPAL UTILITY DISTRICT

WASTEWATER TREATMENT PLAN LOCATION MAP

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: N/A | DECEMBER 2023 | JOB NO: 130008.07

E: \\AS-FILE1.AWS.AS-ENGINEERS.COM\DRAWINGS\130008\130008.07\130008.07 LOCATION MAP.DWG December 01, 2023

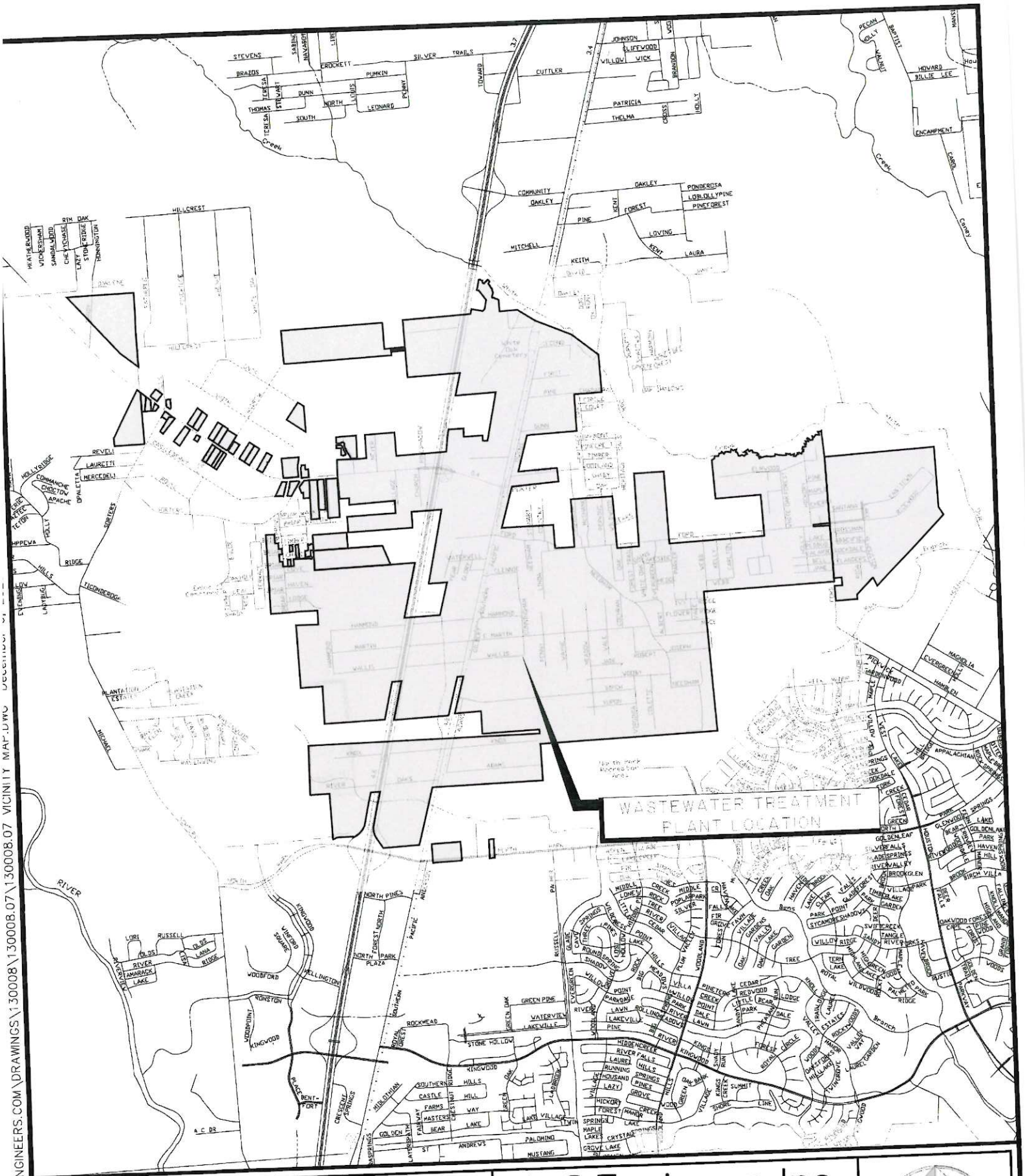
Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 14

VICINITY MAP
(Ref. SPIF 8)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802



PORTER MUNICIPAL UTILITY DISTRICT

WASTEWATER TREATMENT PLAN VICINITY MAP

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: N/A | DECEMBER 2023 | JOB NO. 130008.07

E: \AS-FILE1.AWS.AS-ENGINEERS.COM\DRAWINGS\130008\130008.07\130008.07 VICINITY MAP.DWG DECEMBER 21, 2023

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 15

USGS MAP
(Ref. SPIF 8)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

USGS
science for a changing world

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

SCALE 1:24 000

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

PERMIT NO. WO0012242-001
NPDES PERMIT NO. TX0084042
HARRIS COUNTY
PORTER MUD
PROJECT NO. 130008.05

EXHIBIT

HARRIS COUNTY
PORTER MUD DISTRICT BOUNDARY
WASTEWATER TREATMENT PLANT

USGS MAP

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

DECEMBER 2023

FILE: \\AS-FILE1.AWS.AS-ENGINEERS.COM\D

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 16

SLUDGE MANAGEMENT PLANS
(Ref. TR 6F)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

SLUDGE MANAGEMENT PLAN
PORTER MUNICIPAL UTILITY DISTRICT

Existing Phase - 1.60 MGD

1. Type of Treatment Process

EXISTING PHASE – 1.60 MGD – NOW OPERATING

OXIDATION DITCH

The existing facility is comprised of two plants. Plant A is a 0.800 million gallons per day (MGD) activated sludge contact stabilization process utilizing extended aeration in an oxidation ditch. The following table shows the process design and sludge generation calculations for the design flow of this facility.

BOD = 250 mg/l x 8.34 lbs/gal x 0.80 MGD = 1,668 lbs BOD per Day

Plant B is a 0.800 activated sludge conventional plug flow process. The facility consists of two (2) parallel treatment trains. The following table shows the process design and sludge generation calculations for the design flow of each train.

Train #1
BOD = 250 mg/l x 8.34 lbs/gal x 0.40 MGD = 834 lbs. BOD per Day

Train #2
BOD = 250 mg/l x 8.34 lbs/gal x 0.40 MGD = 834 lbs. BOD per Day

Total lbs of BOD for the 1.6 MGD WWTP = 3,336 lbs per day based on 250 mg/l BOD influent.

2. Dimensions and Capacities

OXIDATION Ditch Digester – 0.800 MGD

The treatment facility has a single solids holding tank with maximum volume of 16, 619 cubic feet. The tank is 46-feet diameter with 10 foot side water depth.

CONVENTIONAL WWTP Digesters – 0.800 MGD

Train #1 contains one (1) digester. The digester will have a capacity of 18,645 cubic feet. The approximate dimension of each basin is proposed as 55.6 ft L x 29.0 ft W x 17.26 ft W. x 14.5 SWD with curved wall shared with clarifier No. 1

Thickening of sludge prior to transfer to the digester is accomplished by manual operation of the sludge transfer pump. Periodically, (two or three times per week) the air supply and mixing in the aerobic digester is terminated allowing solids to settle to the bottom of the digester. Then supernatant liquor is decanted by telescoping valve and returned to the on-site lift station. After sufficient digestion, sludge is wasted via sludge pumps with the addition of dewatering enhancing polymer to the sludge drying beds or hauled in liquid form by a licensed transporter. Solids from the drying beds are removed to a dumpster and disposed of at a registered land fill. Liquid sludge is transported to registered site.

Conventional Aerated Mixed Liquor WWTP - Train #1 and Train #2
The removal of waste activated sludge from the recently constructed conventional aerated mixed liquor activated sludge WWTP is achieved by wasting sludge from the bottom of each of the clarifiers into the 12 foot diameter gravity thickener. Thickened sludge from the gravity thickener to sludge is then transferred by airlift pump to one or both of the two aerobic digesters using the thickener airlift pumps. Additional thickening of sludge prior to transfer to the digester by periodically, (two or three times per week) having the air supply and mixing in the aerobic digester shut off allowing solids to settle to the bottom of the digester. The supernatant liquor is decanted by an adjustable decant airlift pump located in each digester and is returned to influent pump station via the plant drain system. After sufficient digestion, sludge is wasted to covered synthetic filter plate sludge drying beds or hauled in liquid form by a licensed transporter. Dewatered solids from the drying beds are removed to a dumpster and disposed of at a registered land fill. Liquid sludge is transported to registered site.

6. Quantity of Solids to be Removed and Solids Removal Schedule

The quantity of solids to be removed at various plant loadings and Phases are presented in the following table. The quantities shown in the tabulation are monthly quantities based upon the influent BOD of 250 mg/l and TSS of 200 mg/l. If the strength of the influent wastewater varies significantly, solids removal quantities will be different.

PHASE	@100% Flow Capacity		@75% Flow Capacity		@50% Flow Capacity		@25% Flow Capacity	
1.60 MGD	% Solids	Gal/Month	% Solids	Gal/Month	% Solids	Gal/Month	% Solids	Gal/Month
	2.5	480,000	2.5	360,000	2.5	240,000	2.5	120,000

Sludge Age
The sludge age based on having 53,078 cubic feet (397,021 gallons) of total digester capacity, 2.5 % solids and the above generated sludge volume is 25 days for 100% flow capacity, 33 days for 75% capacity, 50 days for 50% capacity and 100 days for 25% capacity.

PORTER MUD WWTP
SLUDGE MANAGEMENT PLAN
Interim Phase I (2.4 MGD)

The average daily influent flow to the Porter Municipal Utility District Wastewater Treatment Plant during **interim phase I** will be 2,400,000 gallon per day. This flow will be divided into 0.80 MGD to the existing South Plant "A" and 1.60 MGD to the West Plant. Assuming one pound of waste activated sludge will be produced for each pound of BOD that enters the plant.

Existing South Plant "A" Influent Design Flow = 0.80 MGD
Existing South Plant "A" Total Digester Volume = 34,146 Cubic Feet

West Plant Influent Design Flow = 1.60 MGD
West Plant Total Digester Volume = 94,500 Cubic Feet

Influent BOD5 Concentration = 250 mg/l BOD5/ day
Effluent BOD5 Concentration = 5 mg/l BOD5/ day

EXISTING SOUTH PLANT "A" (0.80 MGD)				
SOLIDS GENERATED	**100% FLOW**	**75% FLOW**	**50% FLOW**	**25% FLOW**
Flow (MGD)	0.80	0.60	0.40	0.20
BOD5 Removed (lbs/day)	1,635	1,226	817	409
Digested Sludge Produced (lbs/day)	1,463	1,097	732	366
*Volume of Sludge Haul (Gallons)	11,695	8,771	5,847	2,924

*Assuming 1.5% solids concentration in digester.

WEST PLANT (1.60 MGD)				
SOLIDS GENERATED	**100% FLOW**	**75% FLOW**	**50% FLOW**	**25% FLOW**
Flow (MGD)	1.60	1.20	0.80	0.40
BOD5 Removed (lbs/day)	3,269	2,452	1,65	817
Digested Sludge Produced (lbs/day)	2,926	2,195	1,463	732
*Volume of Sludge Haul (Gallons)	23,389	17,542	11,695	5,847

*Assuming 1.5% solids concentration in digester.

The Digested Sludge that is produced will remain in the Aerobic Digestion Basins until it is liquid hauled off the site by a licensed sludge hauler. The clear supernant liquor will be decanted off the digester and returned to the head of the plant via the onsite lift station.

EXISTING SOUTH PLANT "A" (0.80 MGD) SLUDGE REMOVAL SCHEDULE				
	100% FLOW	**75% FLOW**	**50% FLOW**	**25% FLOW**
Days Between Sludge Removal	22 days	29 days	44 days	87 days

WEST PLANT (1.60 MGD) SLUDGE REMOVAL SCHEDULE				
	100% FLOW	**75% FLOW**	**50% FLOW**	**25% FLOW**
Days Between Sludge Removal	30 days	40 days	60 days	121 days

Digested Sludge will be removed from the Aerobic Digestion Basins. The Liquid Sludge from each plant will be hauled by a registered transporter.

PORTER MUD WWTP
SLUDGE MANAGEMENT PLAN
Interim Phase II (4.0 MGD)

The average daily influent flow to the Porter Municipal Utility District Wastewater Treatment Plant during **interim phase II** will be 4,000,000 gallon per day. This will be an additional flow of 1.60 MGD sent to the West Plant. Assuming one pound of waste activated sludge will be produced for each pound of BOD that enters the plant.

Existing South Plant "A" Influent Design Flow = 0.80 MGD
Existing South Plant "A" Total Digester Volume = 34,146 Cubic Feet

West Plant Influent Design Flow = 3.20 MGD
West Plant Total Digester Volume = 141,750 Cubic Feet

Influent BOD5 Concentration = 250 mg/l BOD5/ day
Effluent BOD5 Concentration = 5 mg/l BOD5/ day

EXISTING SOUTH PLANT "A" (0.80 MGD)				
SOLIDS GENERATED	**100% FLOW**	**75% FLOW**	**50% FLOW**	**25% FLOW**
Flow (MGD)	0.80	0.60	0.40	0.20
BOD5 Removed (lbs/day)	1,635	1,226	817	409
Digested Sludge Produced (lbs/day)	1,463	1,097	732	366
*Volume of Sludge Haul (Gallons)	11,695	8,771	5,847	2,924

*Assuming 1.5% solids concentration in digester.

WEST PLANT (3.20 MGD)				
SOLIDS GENERATED	**100% FLOW**	**75% FLOW**	**50% FLOW**	**25% FLOW**
Flow (MGD)	3.20	2.40	1.60	0.80
BOD5 Removed (lbs/day)	6,539	4,904	3,269	1,635
Digested Sludge Produced (lbs/day)	5,852	4,389	2,926	1,463
*Volume of Sludge Haul (Gallons)	46,779	35,084	23,389	11,695

*Assuming 1.5% solids concentration in digester.

The Digested Sludge that is produced will remain in the Aerobic Digestion Basins until it is liquid hauled off the site by a licensed sludge hauler. The clear supernant liquor will be decanted off the digester and returned to the head of the plant via the onsite lift station.

EXISTING SOUTH PLANT "A" (0.80 MGD) SLUDGE REMOVAL SCHEDULE				
	100% FLOW	**75% FLOW**	**50% FLOW**	**25% FLOW**
Days Between Sludge Removal	22 days	29 days	44 days	87 days

WEST PLANT (3.20)MGD) SLUDGE REMOVAL SCHEDULE				
	100% FLOW	**75% FLOW**	**50% FLOW**	**25% FLOW**
Days Between Sludge Removal	23 days	30 days	45 days	91 days

Digested Sludge will be removed from the Aerobic Digestion Basins. The Liquid Sludge from each plant will be hauled by a registered transporter.

PORTER MUD WWTP
SLUDGE MANAGEMENT PLAN
Interim Phase III (5.0 MGD)

The average daily influent flow to the Porter Municipal Utility District Wastewater Treatment Plant during **interim phase III** will be 5,000,000 gallon per day. This will be an additional flow of 1.00 MGD sent to the West Plant. Assuming one pound of waste activated sludge will be produced for each pound of BOD that enters the plant.

Existing South Plant "A" Influent Design Flow = 0.80 MGD
Existing South Plant "A" Total Digester Volume = 34,146 Cubic Feet

West Plant Influent Design Flow = 4.20 MGD
West Plant Total Digester Volume = 189,000 Cubic Feet

Influent BOD5 Concentration = 250 mg/l BOD5/ day
Effluent BOD5 Concentration = 5 mg/l BOD5/ day

EXISTING SOUTH PLANT "A" (0.80 MGD)				
SOLIDS GENERATED	**100% FLOW**	**75% FLOW**	**50% FLOW**	**25% FLOW**
Flow (MGD)	0.80	0.60	0.40	0.20
BOD5 Removed (lbs/day)	1,635	1,226	817	409
Digested Sludge Produced (lbs/day)	1,463	1,097	732	366
*Volume of Sludge Haul (Gallons)	11,695	8,771	5,847	2,924

*Assuming 1.5% solids concentration in digester.

WEST PLANT (4.20 MGD)				
SOLIDS GENERATED	**100% FLOW**	**75% FLOW**	**50% FLOW**	**25% FLOW**
Flow (MGD)	4.20	3.15	2.10	1.05
BOD5 Removed (lbs/day)	8,582	6,436	4,291	2,145
Digested Sludge Produced (lbs/day)	7,681	5,761	3,840	1,920
*Volume of Sludge Haul (Gallons)	61,397	46,048	30,699	15,349

*Assuming 1.5% solids concentration in digester.

The Digested Sludge that is produced will remain in the Aerobic Digestion Basins until it is liquid hauled off the site by a licensed sludge hauler. The clear supernant liquor will be decanted off the digester and returned to the head of the plant via the onsite lift station.

EXISTING SOUTH PLANT "A" (0.80 MGD) SLUDGE REMOVAL SCHEDULE				
	100% FLOW	**75% FLOW**	**50% FLOW**	**25% FLOW**
Days Between Sludge Removal	22 days	29 days	44 days	87 days

WEST PLANT (4.20 MGD) SLUDGE REMOVAL SCHEDULE				
	100% FLOW	**75% FLOW**	**50% FLOW**	**25% FLOW**
Days Between Sludge Removal	23 days	31 days	46 days	92 days

Digested Sludge will be removed from the Aerobic Digestion Basins. The Liquid Sludge from each plant will be hauled by a registered transporter.

PORTER MUD WWTP
SLUDGE MANAGEMENT PLAN
Final Phase (6.0 MGD)

The average daily influent flow to the Porter Municipal Utility District Wastewater Treatment Plant during **final phase** will be 6,000,000 gallon per day. This will be a separate plant from the West Plant and South Plant "A" and be called South Plant "B". Assuming one pound of waste activated sludge will be produced for each pound of BOD that enters the plant.

Existing South Plant "A" Influent Design Flow = 0.80 MGD
Existing South Plant "A" Total Digester Volume = 34,146 Cubic Feet

West Plant Influent Design Flow = 4.20 MGD
West Plant Total Digester Volume = 189,000 Cubic Feet

South Plant "B" Influent Design Flow = 1.00 MGD
South Plant "B" Total Digester Volume = 47,250 Cubic Feet

Influent BOD5 Concentration = 250 mg/l BOD5/ day
Effluent BOD5 Concentration = 5 mg/l BOD5/ day

EXISTING SOUTH PLANT "A" (0.80 MGD)				
SOLIDS GENERATED	**100% FLOW**	**75% FLOW**	**50% FLOW**	**25% FLOW**
Flow (MGD)	0.80	0.60	0.40	0.20
BOD5 Removed (lbs/day)	1,635	1,226	817	409
Digested Sludge Produced (lbs/day)	1,463	1,097	732	366
*Volume of Sludge Haul (Gallons)	11,695	8,771	5,847	2,924

*Assuming 1.5% solids concentration in digester.

WEST PLANT (4.20 MGD)				
SOLIDS GENERATED	**100% FLOW**	**75% FLOW**	**50% FLOW**	**25% FLOW**
Flow (MGD)	4.20	3.15	2.10	1.05
BOD5 Removed (lbs/day)	8,582	6,436	4,291	2,145
Digested Sludge Produced (lbs/day)	7,681	5,761	3,840	1,920
*Volume of Sludge Haul (Gallons)	61,397	46,048	30,699	15,349

*Assuming 1.5% solids concentration in digester.

SOUTH PLANT "B" (1.00 MGD)				
SOLIDS GENERATED	100% FLOW	75% FLOW	50% FLOW	25% FLOW
Flow (MGD)	1.00	0.75	0.50	0.25
BOD5 Removed (lbs/day)	2,043	1,532	1,022	511
Digested Sludge Produced (lbs/day)	1,829	1,372	914	457
*Volume of Sludge Haul (Gallons)	14,618	10,964	7,309	3,655

*Assuming 1.5% solids concentration in digester.

The Digested Sludge that is produced will remain in the Aerobic Digestion Basins until it is liquid hauled off the site by a licensed sludge hauler. The clear supernant liquor will be decanted off the digester and returned to the head of the plant via the onsite lift station.

EXISTING SOUTH PLANT "A" (0.80 MGD) SLUDGE REMOVAL SCHEDULE				
	100% FLOW	75% FLOW	50% FLOW	25% FLOW
Days Between Sludge Removal	22 days	29 days	44 days	87 days

WEST PLANT (4.20 MGD) SLUDGE REMOVAL SCHEDULE				
	100% FLOW	75% FLOW	50% FLOW	25% FLOW
Days Between Sludge Removal	23 days	31 days	46 days	92 days

SOUTH PLANT "B" (1.00 MGD) SLUDGE REMOVAL SCHEDULE				
	100% FLOW	75% FLOW	50% FLOW	25% FLOW
Days Between Sludge Removal	24 days	32 days	48 days	97 days

Digested Sludge will be removed from the Aerobic Digestion Basins. The Liquid Sludge from each plant will be hauled by a registered transporter.

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 17

POLLUTANT ANALYSIS
(Ref. TR 7 & Worksheet 4.0)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

EASTEX
ENVIRONMENTAL LABS INC.

04 January 2024

Porter MUD
Porter MUD
P.O. Box 1030
Porter, Tx 77365

RE: Porter MUD Long Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 12/13/23 13:35, with Lab ID Number C3L2968. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mark Bourgeois
Special Projects Manager

EASTEX
ENVIRONMENTAL LABS INC.

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

Porter MUD
P.O. Box 1030
Porter Tx, 77365

Project: Porter MUD Long Permit Renewal
Sample Matrix: Water
Client Matrix: Water

Sample Date and Time: 12/13/2023 08:10
Collector: BDS
Sample Type:Composite
Print Date: 1/4/2024

Grab

C3L2968-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Eastex Environmental Laboratory - Coldspring								
Chlorine	1.7	0.1	mg/L	N	B3L1877	12/13/2023 08:10	SM 4500 Cl F	
DO	8.8		mg/L	N	B3L1877	12/13/2023 08:10	SM 4500 O G	
pH	6.5		std unit	N	B3L1877	12/13/2023 08:10	SM 4500 H + B	
Alkalinity	114	20.0	mg CaCO3/L	A	B3L2200	12/14/2023 11:55	SM 2320 B	
Ammonia as N	10.2	0.1	mg/L	A	B3L2434	12/15/2023 17:24	SM 4500 NH3 G	
CBOD 5	4.4	2.0	mg/L	A	B3L2125	12/14/2023 08:00	SM 5210 B	1
Chloride	77.3	5.0	mg/L	A	B3L2062	12/13/2023 18:35	EPA 300.0	
Conductivity	800	10	µmhos/cm @25C	A	B3L2457	12/18/2023 11:08	SM 2510 B	
E coli IDEXX	<2	2	mpn/100ml	A	B3L2153	12/13/2023 14:47	Colilert 18	
Nitrate as N	13.6	0.05	mg/L	A	B3L2062	12/13/2023 18:35	EPA 300.0	
Oil Grease, HEM	<5.2	5.2	mg/L	A	B3L2749	12/19/2023 10:00	EPA 1664A	53
Phenol, low level	61.8	10.0	ppb	A	B4A0025	01/02/2024 08:00	EPA 420.1	
Sulfate	36.7	4.0	mg/L	A	B3L2062	12/13/2023 18:35	EPA 300.0	
TDS	548	10.0	mg/L	A	B3L2450	12/15/2023 15:38	SM 2540 C	
Total Phosphorus	10.0	0.0600	mg/L	A	B3L2237	12/21/2023 12:41	EPA 200.7	
TSS	9.0	1.0	mg/L	A	B3L2094	12/14/2023 13:36	SM 2540 D	

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved

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121323A

RESULTS

Sample Results

2256591 PORTER MUD LONG PERMIT

Received: 12/14/2023

Non-Potable Water — Collected by: Client — Eastex Environmental — PO: 121323A

Composite Stop 08:10 12/13/23 — Taken: 12/13/2023 08:10:00

ASTM D7065-11 — Prepared: 1096413 12/20/2023 13:00:00 — Analyzed 1096951 12/27/2023 19:25:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Nonylphenol**	**<30.3**	**ug/L**	30.3		**25154-52-3**	19

EPA 245.7 2 — Prepared: 1096817 12/27/2023 11:53:00 — Analyzed 1096817 12/27/2023 11:53:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury, Total (low level)**	**<0.0012**	**ug/L**	0.0012		**7439-97-6**	12

EPA 604.1 — Prepared: 1095776 12/18/2023 14:00:00 — Analyzed 1096655 12/20/2023 16:13:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Hexachlorophene**	**<0.0254**	**ug/L**	0.0254		**70-30-4**	18

EPA 608.3 — Prepared: 1095574 12/15/2023 14:00:00 — Analyzed 1096793 12/18/2023 15:42:00 KLB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**4,4-DDD**	**<0.0102**	**ug/L**	0.0102		**72-54-8**	14
NELAC	**4,4-DDE**	**<0.0102**	**ug/L**	0.0102		**72-55-9**	14
NELAC	**4,4-DDT**	**<0.0102**	**ug/L**	0.0102		**50-29-3**	14
NELAC	**Aldrin**	**<0.010**	**ug/L**	0.010		**309-00-2**	14
NELAC	**Alpha-BHC(hexachlorocyclohexane)**	**<0.0102**	**ug/L**	0.0102		**319-84-6**	14
NELAC	**alpha-Chlordane**	**<0.0102**	**ug/L**	0.0102		**5103-71-9**	14
NELAC	**Beta-BHC(hexachlorocyclohexane)**	**<0.0102**	**ug/L**	0.0102		**319-85-7**	14
NELAC	**Delta-BHC(hexachlorocyclohexane)**	**<0.0102**	**ug/L**	0.0102		**319-86-8**	14
NELAC	**Dieldrin**	**<0.0102**	**ug/L**	0.0102		**60-57-1**	14
NELAC	**Endosulfan I (alpha)**	**<0.010**	**ug/L**	0.010		**959-98-8**	14
NELAC	**Endosulfan II (beta)**	**<0.0102**	**ug/L**	0.0102		**33213-65-9**	14
NELAC	**Endosulfan sulfate**	**<0.0102**	**ug/L**	0.0102		**1031-07-8**	14
NELAC	**Endrin**	**<0.0102**	**ug/L**	0.0102		**72-20-8**	14
NELAC	**Endrin aldehyde**	**<0.0102**	**ug/L**	0.0102		**7421-93-4**	14

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2256591 PORTER MUD LONG PERMIT Received: 12/14/2023

Non-Potable Water Collected by: Client Eastex Environmental PO: 121323A
Composite Stop 08:10 12/13/23 Taken: 12/13/2023 08:10:00

EPA 615 Prepared: 1096429 12/20/2023 13:30:00 Analyzed 1097214 12/28/2023 18:25:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**2,4 Dichlorophenoxyacetic acid**	**<0.512**	**ug/L**	0.512		**94-75-7**	20
NELAC	**2,4,5-TP (Silvex)**	**<0.300**	**ug/L**	0.300		**93-72-1**	20

EPA 622 Prepared: 1095575 12/15/2023 14:00:00 Analyzed 1096720 12/18/2023 23:54:00 KLB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Chlorpyrifos**	**<0.050**	**ug/L**	0.050	D	**2921-88-2**	15

EPA 625.1 Prepared: 1095774 12/18/2023 13:30:00 Analyzed 1097455 12/28/2023 18:34:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**1,2,4,5-Tetrachlorobenzene**	**<1.03**	**ug/L**	1.03		**95-94-3**	17
NELAC	**1,2,4-Trichlorobenzene**	**<1.03**	**ug/L**	1.03		**120-82-1**	17
NELAC	**1,2-Dichlorobenzene**	**<1.03**	**ug/L**	1.03	X	**95-50-1**	17
NELAC	**1,2-DPH (as azobenzene)**	**<1.03**	**ug/L**	1.03		**122-66-7**	17
NELAC	**1,3-Dichlorobenzene**	**<1.03**	**ug/L**	1.03		**541-73-1**	17
NELAC	**1,4-Dichlorobenzene**	**<1.03**	**ug/L**	1.03	X	**106-46-7**	17
NELAC	**2,4,5-Trichlorophenol**	**<1.03**	**ug/L**	1.03		**95-95-4**	17
NELAC	**2,4,6-Trichlorophenol**	**<1.03**	**ug/L**	1.03		**88-06-2**	17
NELAC	**2,4-Dichlorophenol**	**<1.03**	**ug/L**	1.03		**120-83-2**	17
NELAC	**2,4-Dimethylphenol**	**<2.48**	**ug/L**	2.48		**105-67-9**	17
NELAC	**2,4-Dinitrophenol**	**<9.31**	**ug/L**	9.31		**51-28-5**	17
NELAC	**2,4-Dinitrotoluene**	**<3.62**	**ug/L**	3.62		**121-14-2**	17
NELAC	**2,6-Dinitrotoluene**	**<1.03**	**ug/L**	1.03		**606-20-2**	17
NELAC	**2-Chloronaphthalene**	**<1.03**	**ug/L**	1.03		**91-58-7**	17
NELAC	**2-Chlorophenol**	**<1.03**	**ug/L**	1.03		**95-57-8**	17
NELAC	**2-Methylphenol (o-Cresol)**	**<5.38**	**ug/L**	5.38	X	**95-48-7**	17
NELAC	**2-Nitrophenol**	**<1.03**	**ug/L**	1.03		**88-75-5**	17
NELAC	**3&4-Methylphenol (m&p-Cresol)**	**<6.41**	**ug/L**	6.41	X	**MEPH34**	17
NELAC	**3,3'-Dichlorobenzidine**	**<5.00**	**ug/L**	5.00		**91-94-1**	17
NELAC	**4,6-Dinitro-2-methylphenol**	**<8.27**	**ug/L**	8.27		**534-52-1**	17
NELAC	**4-Bromophenyl phenyl ether**	**<1.03**	**ug/L**	1.03		**101-55-3**	17
NELAC	**4-Chlorophenyl phenyl ethe**	**<1.03**	**ug/L**	1.03		**7005-72-3**	17
NELAC	**4-Nitrophenol**	**<1.03**	**ug/L**	1.03		**100-02-7**	17
NELAC	**Acenaphthene**	**<1.03**	**ug/L**	1.03		**83-32-9**	17

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2256591 PORTER MUD LONG PERMIT

Received: 12/14/2023

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 121323A
Composite Stop 08:10 12/13/23 | Taken: 12/13/2023 08:10:00

EPA 625.1 Prepared: 1095774 12/18/2023 13:30:00 Analyzed 1097455 12/28/2023 18:34:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Pentachlorobenzene**	**<1.03**	**ug/L**	1.03		**608-93-5**	17
NELAC	**Pentachlorophenol**	**<1.03**	**ug/L**	1.03		**87-86-5**	17
NELAC	**Phenanthrene**	**<1.03**	**ug/L**	1.03		**85-01-8**	17
NELAC	**Phenol**	**<1.55**	**ug/L**	1.55		**108-95-2**	17
NELAC	**Pyrene**	**<1.03**	**ug/L**	1.03		**129-00-0**	17
NELAC	**Pyridine**	**<5.58**	**ug/L**	5.58	D	**110-86-1**	17

EPA 625.1 Prepared: 1095774 12/18/2023 13:30:00 Calculated 1097455 01/03/2024 18:02:00 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cresols Total**	**<6.41**	**ug/L**	6.41	E	**1319-77-3, etc.**	17

EPA 632 Prepared: 1095573 12/15/2023 14:00:00 Analyzed 1096279 12/19/2023 21:37:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<2.56**	**ug/L**	2.56		**63-25-2**	13
2	**Diuron**	**<0.0461**	**ug/L**	0.0461		**330-54-1**	13

2256601 PORTER MUD LONG PERMIT RENEW

Received: 12/14/2023

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 121323A
Taken: 12/13/2023 08:10:00

EPA 351.2 2 Prepared: 1095661 12/18/2023 08:16:28 Analyzed 1096118 12/20/2023 08:47:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Kjeldahl Nitrogen**	**7090**	**ug/L**	50.0		**7727-37-9**	09

EPA 624.1 Prepared: 1095535 12/14/2023 15:57:00 Analyzed 1095535 12/14/2023 15:57:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Acrolein**	**<4.00**	**ug/L**	4.00		**107-02-8**	05
NELAC	**Acrylonitrile**	**<1.00**	**ug/L**	1.00		**107-13-1**	05

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2256601 PORTER MUD LONG PERMIT RENEW

Received: 12/14/2023

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 121323A
Taken: 12/13/2023 08:10:00

EPA 624.1 Prepared: 1095536 12/14/2023 16:19:00 Analyzed 1095536 12/14/2023 16:19:00 PMI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Dibromochloromethane	<1.00	ug/L	1.00		124-48-1	08
NELAC	Dibromomethane	<1.00	ug/L	1.00		74-95-3	08
NELAC	Dichlorodifluoromethane	<1.00	ug/L	1.00		75-71-8	08
NELAC	Dichloromethane	<1.02	ug/L	1.02		75-09-2	08
NELAC	Ethylbenzene	<1.00	ug/L	1.00		100-41-4	08
NELAC	Hexachlorobutadiene	<2.00	ug/L	2.00		87-68-3	08
NELAC	Isopropylbenzene (Cumene)	<1.00	ug/L	1.00		98-82-8	08
NELAC	m- and p-Xylene	1.25	ug/L	2.00	J	ARC-mpXyl	08
NELAC	m-Dichlorobenzene (1,3-DCB)	<1.00	ug/L	1.00		541-73-1	08
NELAC	Methyl ethyl ketone (Butanone)	<1.00	ug/L	1.00		78-93-3	08
NELAC	Methyl Isobutyl Ketone	<1.00	ug/L	1.00		108-10-1	08
NELAC	Naphthalene	<1.00	ug/L	1.00		91-20-3	08
NELAC	n-Butylbenzene	<1.00	ug/L	1.00	S	104-51-8	08
NELAC	n-Propylbenzene	<1.00	ug/L	1.00		103-65-1	08
NELAC	o-Dichlorobenzene (1,2-DCB)	<1.00	ug/L	1.00		95-50-1	08
NELAC	o-Xylene	<1.00	ug/L	1.00		95-47-6	08
NELAC	p-Dichlorobenzene (1,4-DCB)	<1.00	ug/L	1.00		106-46-7	08
NELAC	p-Isopropyltoluene	<1.00	ug/L	1.00	S	99-87-6	08
NELAC	sec-Butylbenzene	<1.00	ug/L	1.00		135-98-8	08
NELAC	Styrene	<1.00	ug/L	1.00		100-42-5	08
NELAC	tert-Butylbenzene	<1.00	ug/L	1.00		98-06-6	08
NELAC	Tetrachloroethylene	<1.00	ug/L	1.00		127-18-4	08
NELAC	Toluene	<1.00	ug/L	1.00		108-88-3	08
NELAC	trans-1,2-Dichloroethylene	<1.00	ug/L	1.00	S	156-60-5	08
NELAC	trans-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-02-6	08
NELAC	Trichloroethylene	<1.00	ug/L	1.00		79-01-6	08
NELAC	Trichlorofluoromethane	<1.00	ug/L	1.00		75-69-4	08
NELAC	Vinyl chloride	<1.00	ug/L	1.00		75-01-4	08

SM 4500-CN⁻ E-2016 Prepared: 1095911 12/19/2023 10:47:51 Analyzed 1096096 12/20/2023 08:32:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cyanide, total	<2.38	ug/L	2.38			10

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2256591 PORTER MUD LONG PERMIT Received: 12/14/2023

121323A

Composite Stop 08:10 12/13/23 12/13/2023

	EPA 604.1	*Prepared:*	*1095776*	*12/18/2023*	*14:00:00*	*Analyzed*	*1096655*	*12/20/2023*	*16:13:00*	*BRU*
	Hexachlorophene Expansion	**Entered**						**70-30-4**		18
	EPA 608.3	*Prepared:*	*1095574*	*12/15/2023*	*14:00:00*	*Analyzed*	*1095574*	*12/15/2023*	*14:00:00*	*CRS*
	Liquid-Liquid Extr. W/Hex Ex	**1/976**	**ml**							02
	EPA 608.3	*Prepared:*	*1095574*	*12/15/2023*	*14:00:00*	*Analyzed*	*1096793*	*12/18/2023*	*15:42:00*	*KLB*
NELAC	**Pesticides Method 608.3 full lis**	**Entered**								14
	EPA 608.3	*Prepared:*	*1095575*	*12/15/2023*	*14:00:00*	*Analyzed*	*1095575*	*12/15/2023*	*14:00:00*	*CRS*
	Solvent Extraction	**1/976**	**ml**							02
	EPA 608.3	*Prepared:*	*1095576*	*12/15/2023*	*14:00:00*	*Analyzed*	*1095576*	*12/15/2023*	*14:00:00*	*CRS*
	PCB Liq-Liq Extr. W/Hex Exch.	**1/976**	**ml**							02
	EPA 608.3	*Prepared:*	*1095576*	*12/15/2023*	*14:00:00*	*Analyzed*	*1096907*	*12/18/2023*	*15:42:00*	*KLB*
NELAC	**Polychlorinated Biphenyls**	**Entered**								16
	EPA 614	*Prepared:*	*1095575*	*12/15/2023*	*14:00:00*	*Analyzed*	*1096724*	*12/18/2023*	*23:54:00*	*KLB*
z	**Permit Organophos. Pesticides**	**Entered**								15
	EPA 615	*Prepared:*	*1096429*	*12/20/2023*	*13:30:00*	*Analyzed*	*1096429*	*12/20/2023*	*13:30:00*	*CRS*
NELAC	**Esterification of Sample**	**10/977**	**ml**							04

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2256601 **PORTER MUD LONG PERMIT RENEW** Received: 12/14/2023

121323A

12/13/2023

EPA 351.2, Rev 2.0		*Prepared:*	*1095661*	*12/18/2023*	*08:16:28*	*Analyzed*	*1095661*	*12/18/2023*	*08:16:28*	*AMB*
NELAC	**TKN Block Digestion**	**20/20**	**ml**							01
EPA 624.1		*Prepared:*	*1095535*	*12/14/2023*	*15:57:00*	*Analyzed*	*1095535*	*12/14/2023*	*15:57:00*	*PMI*
NELAC	**Acrolein/Acrylonitrile Exp.**	**Entered**								05
EPA 624.1		*Prepared:*	*1095536*	*12/14/2023*	*16:19:00*	*Analyzed*	*1095536*	*12/14/2023*	*16:19:00*	*PMI*
NELAC	**Volatiles (WW)**	**Entered**								08
SM 4500-CN⁻ C-2016		*Prepared:*	*1095911*	*12/19/2023*	*10:47:51*	*Analyzed*	*1095911*	*12/19/2023*	*10:47:51*	*SRJ*
NELAC	**Cyanide Distillation**	**10/5**	**ml**			A				02

2256602 **PORTER MUD LONG PERMIT RENEW** MERCURY LL BLANK Received: 12/14/2023

121323A

12/14/2023

EPA 245.7 2		*Prepared:*	*1096762*	*12/26/2023*	*10:00:00*	*Analyzed*	*1096762*	*12/26/2023*	*10:00:00*	*HLT*
NELAC	**Low Level Mercury Liquid Metals**	**50/47**	**ml**							01

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: [redacted]

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
[redacted]				2.5
Anthracene				10
[redacted]				5
[redacted]				0.5
[redacted]				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5

EASTEX ENVIRONMENTAL LABORATORY, INC.

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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:

Company: Porter MUD
Address: ON FILE
Attn:
Phone#:
Email:
P.O. #:
Sampler's Name (print): Brian Sewell
Sampler's Signature: Brian Sewell
Project Name: Porter PR

INVOICE TO:

Company:
Address: SAME
Attn:
Phone#:

Remarks:

INSTRUCTIONS:

C or G: C= Composite G= Grab
Matrix: 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

Work Order ID	Sample ID	Date	Time	Matrix	C or G	Field Data DO	pH	Cl2	Flow	Temp	Containers #	Size	Type	Pres
C3L2968	EFF	12-13-23	0810	WW	G	8.8	6.5	1.7		16.7	5	3,4,5	P	C
	EFF	12-13-23	0810	WW	G						5	3,4,5	P,G	ST.S N.C
	EFF	12-13-23	0810	WW	G						1	6	P,S	ST.C
	EFF	12-13-23	0810	WW	G						6	8	G	H.C
	EFF	12-13-23	0810	WW	G						1	4	P	NaOH. C
	EFF	12-13-23	0810	WW	C						1	4	P	N.C
	EFF	12-13-23	0810	WW	C						2	4,5	P	C
	EFF	12-13-23	0810	WW	C						10	3	G	C
	EFF	12-13-23	0810	WW	C						1	3	G	S.C

ANALYSIS REQUESTED: CBOD5, TSS, TDS, Alk, Cond, Cl, NO3-N, SO4 | NH3N, TKN, O&G, Phenol, TP | Ecoli | VOC-624.1 | CN- | Metals | Chrom VI, NO3-N, F | SVOC-625.1, Pest-608.3, PCBs, Herb, Mi/Mx | Carb/Diuron, OP-1657 | Nonylphenol

Relinquished By: Received By: Date Time Received Iced: YES / NO
Relinquished By: Received By: Date Time Received Iced: YES / NO
Relinquished By: Brian Sewell Received By and/or Checked In By: 12-13-23 Date 1335 Time Received Iced: YES / NO

LAB USE ONLY
Sample Condition Acceptable: YES / NO
Date Time
Alternate Check In:
Temp °C: 0.5
*Therm ID: 15
Logged In By: Date 12-13-23 Time 1448

*Thermometer has 0.0 factor and recorded temperature is actual temperature

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 18

REGIONALIZATION
(Ref. TR 1.1, 1c)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

LIST OF 3 MILES RADIUS FOR REGIONALIZATION

The list of 3 miles radius	WWTP Name	OWNER	DISTRICT ENGINEER CONTACT INFO
WQ00			
14597-001	VALLEY RANCH WWTP	VALLEY RANCH MUD 1	JACK CARTER DANNENBAUM ENGINEERING CORP 3100 W ALABAMA ST. HOUSTON TX 77098-2004
14116-001	MONTGOMERY COUNTY MUD 24	MONTGOMERY COUNTY MUD 24	JUSTIN H. EDWARDS, P.E. A&S ENGINEERS, INC. 10377 STELLA LINK HOUSTON TX
14091-001	NORTHPARK BUSINESS	NORTHPARK BUSINESS CENTER LTD	NORTHPARK BUSINESS CENTER LTD 1701 NORTHPARK DR STE 1 KINGWOOD, TX 77339-1642
02642-000	KING KLEEN CAR WASH	PWT ENTERPRISES INC	PWT ENTERPRISES INC 24036 FARM-TO-MARKET ROAD 1314, PORTER, TX 77365
14482-001	MONTGOMERY COUNTY MUD 83 WWTP	MONTGOMERY COUNTY MUD 83	KEITH ROBERT BILLE COSTELLO INC 9990 RICHMOND AVE STE 450. HOUSTON TX 77042-4673
15288-001	MONTGOMERY COUNTY MUD 96 WWTP	MONTGOMERY COUNTY MUD 96	JASON JOHNSON R.G. MILLER ENGINEERS, INC. 16340 PARK TEN PL STE 350 HOUSTON, TX 77084-5142
10495-142	KINGWOOD WEST WWTP	CITY OF HOUSTON/ Department of Public Works and Enginering	CITY OF HOUSTON/ Department of Public Works and Engineering 10500 BELLAIRE BLVD HOUSTON, TX 77072-5212
13526-001	KINGS MANOR PLANT	KINGS MANOR MUD	DAVID WARRER QUIDDITY ENGINEER, LLC 1575 SAWDUST ROAD STE 400 THE WOODLANDS, TX 77380-3860

A&S Engineers, Inc.

January 29, 2024

Jack Carter
Dannenbaum Engineering Corp.
3100 W Alabama St.
Houston, Tx 77098-2004

Attn: Jack Carter

Re: Porter Municipal Utility District
TCEQ Wastewater Discharge Permit Application
Regionalization Inquiry – Vally Ranch WWTP
A&S Project 130008.07

To Whom It May Concern:

Porter Municipal Utility District has prepared a wastewater discharge permit application for a major amendment to our domestic wastewater treatment plant in Montgomery County increasing the ultimate final capacity from 4.0 mgd to 6.0 mgd. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we will investigate the feasibility of obtaining capacity for the additional 2.0 MGD wastewater flow from a neighboring plant.

Is it possible for your utility to accept flows from the proposed facility? ___YES _X_NO

If "YES", what is the maximum flow that can be accepted _____MGD.

By: _____ Date: 2/6/24

Please date, sign and return your reply by email to glg@as-engineers.com

If you have any questions, please feel free to contact me at 713-942-2700.

Regards,

Gerald Gehman, P.E.
District Engineer

10377 Stella Link Road | Houston, TX 77025 | 713 / 942 / 2700 | www.as-engineers.com

A&S Engineers, Inc.

January 29, 2024

Justin H. Edwards, P.E.
A&S Engineers, Inc
10377 Stella Link Road
Houston, Tx 77025

Attn: Mr. Edwards

Re: Porter Municipal Utility District
TCEQ Wastewater Discharge Permit Application
Regionalization Inquiry – Montgomery County MUD 24
A&S Project 130008.07

To Whom It May Concern:

Porter Municipal Utility District has prepared a wastewater discharge permit application for a major amendment to our domestic wastewater treatment plant in Montgomery County increasing the ultimate final capacity from 4.0 mgd to 6.0 mgd. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we will investigate the feasibility of obtaining capacity for the additional 2.0 MGD wastewater flow from a neighboring plant.

Is it possible for your utility to accept flows from the proposed facility? ____YES ✓NO

If "YES", what is the maximum flow that can be accepted N/A MGD.

By: Justin Edwards Date: 01/29/24

Please date, sign and return your reply by email to glg@as-engineers.com

If you have any questions, please feel free to contact me at 713-942-2700.

Regards,

Gerald Gehman, P.E.
District Engineer

10377 Stella Link Road | Houston, TX 77025 | 713 / 942 / 2700 | www.as-engineers.com

A&S Engineers, Inc.

January 29, 2024

Northpark Business Center LTD
1701 North Park Dr Ste 1
Kingwood, Tx 77339-1642

Attn: Northpark Business Center LTD

Re: Porter Municipal Utility District
TCEQ Wastewater Discharge Permit Application
Regionalization Inquiry – Northpark Buisness
A&S Project 130008.07

To Whom It May Concern:

Porter Municipal Utility District has prepared a wastewater discharge permit application for a major amendment to our domestic wastewater treatment plant in Montgomery County increasing the ultimate final capacity from 4.0 mgd to 6.0 mgd. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we will investigate the feasibility of obtaining capacity for the additional 2.0 MGD wastewater flow from a neighboring plant.

Is it possible for your utility to accept flows from the proposed facility? ____YES ____NO

If "YES", what is the maximum flow that can be accepted _____MGD.

By: _____ Date: _____

Please date, sign and return your reply by email to glg@as-engineers.com

If you have any questions, please feel free to contact me at 713-942-2700.

Regards,

Gerald Gehman, P.E.
District Engineer

10377 Stella Link Road | Houston, TX 77025 | 713 / 942 / 2700 | www.as-engineers.com

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February 16, 2024, 5:07 pm

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KINGWOOD, TX 77339
February 2, 2024, 10:50 am

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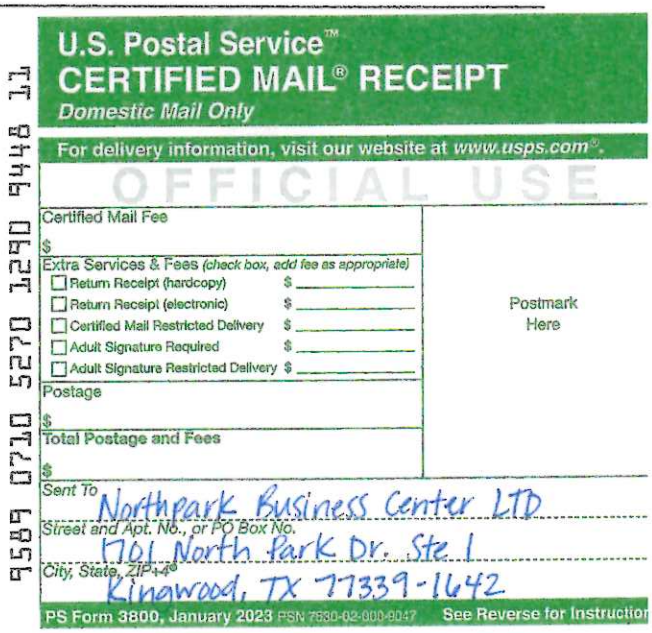

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City, State, ZIP+4®: Kingwood, TX 77339-1642

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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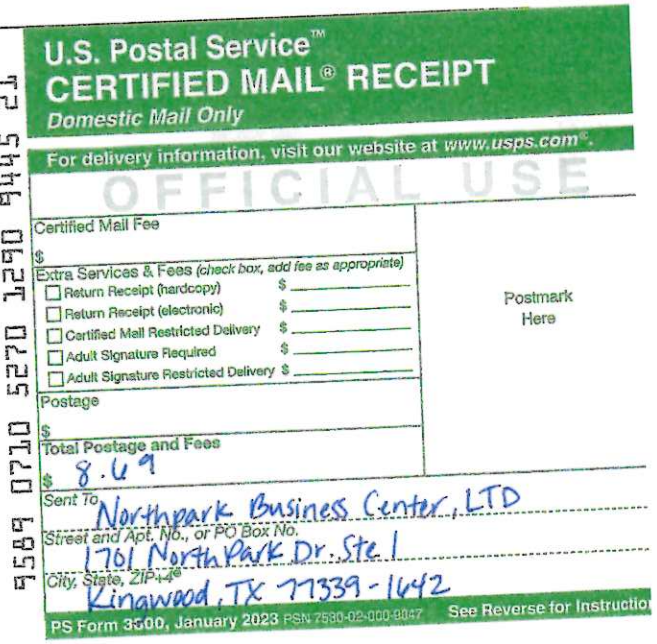
February 22, 2024, 12:26 am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City, State, ZIP+4®: Kingwood, TX 77339-1642

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A&S Engineers, Inc.

January 29, 2024

PWT Enterprise, Inc.
24036 FM 1314
Porter, Tx 77365

Attn: PWT Enterprise, Inc.

Re: Porter Municipal Utility District
TCEQ Wastewater Discharge Permit Application
Regionalization Inquiry – King Kleen Car Wash
A&S Project 130008.07

To Whom It May Concern:

Porter Municipal Utility District has prepared a wastewater discharge permit application for a major amendment to our domestic wastewater treatment plant in Montgomery County increasing the ultimate final capacity from 4.0 mgd to 6.0 mgd. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we will investigate the feasibility of obtaining capacity for the additional 2.0 MGD wastewater flow from a neighboring plant.

Is it possible for your utility to accept flows from the proposed facility? ____YES ____NO

If "YES", what is the maximum flow that can be accepted _____MGD.

By: _____ Date: _____

Please date, sign and return your reply by email to glg@as-engineers.com

If you have any questions, please feel free to contact me at 713-942-2700.

Regards,

Gerald Gehman, P.E.
District Engineer

10377 Stella Link Road | Houston, Tx 77025 | 713 / 942 / 2700 | www.as-engineers.com

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Sent To PWT Enterprise, Inc.
Street and Apt. No., or PO Box No. 24036 FM 1314
City, State, ZIP+4® Porter, TX 77365

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Text & Email Updates

A&S Engineers, Inc.

January 29, 2024

Keith Robert Billie
Costello, Inc
9990 Richmond Ave Ste 450
Houston, Tx 77042-4673
Address Line 2

Attn: Keith Robert Billie

Re: Porter Municipal Utility District
TCEQ Wastewater Discharge Permit Application
Regionalization Inquiry – Montgomery County MUD 83 WWTP
A&S Project 130008.07

To Whom It May Concern:

Porter Municipal Utility District has prepared a wastewater discharge permit application for a major amendment to our domestic wastewater treatment plant in Montgomery County increasing the ultimate final capacity from 4.0 mgd to 6.0 mgd. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we will investigate the feasibility of obtaining capacity for the additional 2.0 MGD wastewater flow from a neighboring plant.

Is it possible for your utility to accept flows from the proposed facility? ____YES X NO

If "YES", what is the maximum flow that can be accepted _____MGD.

By: _____ Date: 2/16/24

Please date, sign and return your reply by email to glg@as-engineers.com

If you have any questions, please feel free to contact me at 713-942-2700.

Regards,

Gerald Gehman, P.E.
District Engineer

10377 Stella Link Road | Houston, TX 77025 | 713 / 942 / 2700 | www.as-engineers.com

A&S Engineers, Inc.

January 29, 2024

Jason Johnson
R.G. Miller Engineers, Inc.
16340 Park Ten Pl Ste 350
Houston, Tx 77084-5142

Attn: Jason Johnson

Re: Porter Municipal Utility District
TCEQ Wastewater Discharge Permit Application
Regionalization Inquiry – Montgomery County 96 WWTP
A&S Project 130008.07

To Whom It May Concern:

Porter Municipal Utility District has prepared a wastewater discharge permit application for a major amendment to our domestic wastewater treatment plant in Montgomery County increasing the ultimate final capacity from 4.0 mgd to 6.0 mgd. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we will investigate the feasibility of obtaining capacity for the additional 2.0 MGD wastewater flow from a neighboring plant.

Is it possible for your utility to accept flows from the proposed facility? ____YES ____NO

If "YES", what is the maximum flow that can be accepted _____MGD.

By: _____ Date: _____

Please date, sign and return your reply by email to glg@as-engineers.com

If you have any questions, please feel free to contact me at 713-942-2700.

Regards,

Gerald Gehman, P.E.
District Engineer

10377 Stella Link Road | Houston, TX 77025 | 713 / 942 / 2700 | www.as-engineers.com

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Sent To: R.G. Miller Engineers, Inc. Attn: Jason Johnson
Street and Apt. No., or PO Box No.: 16340 Park Ten Pl. Ste. 350
City, State, ZIP+4®: Houston, TX 77084-5142

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

---

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

R.G. Miller Engineers, Inc.
Jason Johnson
16340 Park Ten Pl Ste 350
Houston, TX 77084-5142

9590 9402 8452 3156 5850 11

2. Article Number *(Transfer from service label)*
9589 0710 5270 1290 9444 84

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Nancy ☐ Agent ☐ Addressee

B. Received by *(Printed Name)*: Marcy Collings
C. Date of Delivery: 2/7/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
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PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

A&S Engineers, Inc.

January 29, 2024

City Of Houston
Department of Public Works and Engineering
10500 Bellaire Blvd
Houston, Tx 77084-5212

Attn: Department of Public Works and Engineering

Re: Porter Municipal Utility District
TCEQ Wastewater Discharge Permit Application
Regionalization Inquiry – Kingwood West WWTP
A&S Project 130008.07

To Whom It May Concern:

Porter Municipal Utility District has prepared a wastewater discharge permit application for a major amendment to our domestic wastewater treatment plant in Montgomery County increasing the ultimate final capacity from 4.0 mgd to 6.0 mgd. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we will investigate the feasibility of obtaining capacity for the additional 2.0 MGD wastewater flow from a neighboring plant.

Is it possible for your utility to accept flows from the proposed facility? ____YES ____NO

If "YES", what is the maximum flow that can be accepted _____MGD.

By: _____ Date: _____

Please date, sign and return your reply by email to glg@as-engineers.com

If you have any questions, please feel free to contact me at 713-942-2700.

Regards,

Gerald Gehman, P.E.
District Engineer

10777 Stella Link Road | Houston, TX 77025 | 713 / 942 / 2700 | www.as-engineers.com

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HOUSTON, TX 77072
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Street and Apt. No., or PO Box No.
1050 Bellaire Blvd.
City, State, ZIP+4®
Houston, TX 77084-5212
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions
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A&S Engineers, Inc.

January 29, 2024

David Warrer
Quiddity Engineering, LLC
1575 Sawdust Road Ste 400
The Woodlands, Tx 77380-3860

Attn: David Warrer

Re: Porter Municipal Utility District
TCEQ Wastewater Discharge Permit Application
Regionalization Inquiry – Kings Manor Plant
A&S Project 130008.07

To Whom It May Concern:

Porter Municipal Utility District has prepared a wastewater discharge permit application for a major amendment to our domestic wastewater treatment plant in Montgomery County increasing the ultimate final capacity from 4.0 mgd to 6.0 mgd. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we will investigate the feasibility of obtaining capacity for the additional 2.0 MGD wastewater flow from a neighboring plant.

Is it possible for your utility to accept flows from the proposed facility? ___YES X NO

If "YES", what is the maximum flow that can be accepted _____MGD.

By: DAVID WARNER, PE Date: 2/5/2024
KMMUD DISTRICT ENGINEER

Please date, sign and return your reply by email to glg@as-engineers.com

If you have any questions, please feel free to contact me at 713-942-2700.

Regards,

Gerald Gehman, P.E.
District Engineer

10377 Stella Link Road | Houston, TX 77025 | 713 / 942 / 2700 | www.as-engineers.com

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 19

3 MILE RADIUS MAP
(Ref. TR 1.1, 1c)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

PORTER MUD WWTP

PERMITTED WWTPs
3 MILE RADIUS

&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
s Engineering Registration No. F-000802

N

E: 1" = 4000' | JANUARY 2024 | JOB NO: 130008.07

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 20

DESIGN DATA
(Ref. TR 1.1, 4)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

PORTER MUD WASTEWATER TREATMENT PLANT
DESIGN CALCULATIONS FOR PHASES I-IV
TCEQ 30 TAC 217 Regulations

		Phase I (2.4 MGD)		Phase II (4.0 MGD)	Phase III (5.0 MGD)	Phase IV (6.0 MGD)	
		Phase I - South Plant	Phase I - West Plant	Phase II - West Plant (add'l)	Phase III - West Plant (add'l)	Phase IV - South Plant (add'l)	
D. Digester							
Number of Digesters		1	8	4	4	4	
Length	*	2168	30	30	30	30	ft
Width	*		25	25	25	25	ft
Depth		15.75	15.75	15.75	15.75	15.75	ft
Volume		34,146	94,500	47,250	47,250	47,250	cf
Retention Time		28	28	28	28	28	days
Percent Biodegradeable Volitile Solids in WAS, %		70%	70%	70%	70%	70%	
Percent Destruction, %		30%	30%	30%	30%	30%	
Flow (ADF)		0.82	2.26	1.13	1.13	1.13	mgd
Influent BOD		1700	4705	2352	2352	2352	lb/day
Digested Solids Production lbs/day		1343	3717	1858	1858	1858	lb/day
Average Solids		1522	4211	2105	2105	2105	lb/day
Assumed Digested Conc.		20,000	20,000	20,000	20,000	20,000	mg/L
Assumed Specific Gravity		1.02	2.02	3.02	4.02	5.02	
Req'd Volume		34,146.00	94,500.00	47,250.00	47,250.00	47,250.00	
Goal Seak (0)		0.00	0.00	0.00	(0.00)	(0.00)	
Digester Capacity		0.82	2.26	1.13	1.13	1.13	MGD
Total Digester Capacity		3.07		4.20	5.33	6.46	MGD
E. Chlorine Contact							
Number of Chlorine Contact Basins		1	2	2	1	1	
Length	*	675	35	35	35	35	ft
Width	*		18	18	18	18	ft
Depth		10.6	10.6	10.6	10.6	10.6	ft
Volume		7,155	13,356	13,356	6,678	6,678	cf
Minimum Chlorine Contact Time		20	21	22	23	24	min
Maximum Flow		2676	4757	4541	2172	2081	gpm
		3.85	6.85	6.54	3.13	3.00	MGD
Chlorine Contact Capacity		3.85	6.85	6.54	3.13	3.00	MGD
Total Allowable ADF per Phase		10.70		17.24	20.37	23.37	MGD

* square feet calculated in lieu of length and width seperated out

PORTER MUD WASTEWATER TREATMENT PLANT
DESIGN CALCULATIONS FOR PHASES I-IV
TCEQ 30 TAC 217 Regulations

DESIGN PARAMETERS

A. Influent Daily Average Composition

1. Influent BOD	=	250	mg/L
2. Influent TSS	=	250	mg/L
3. Influent NH_3-N	=	50	mg/L

		Phase I (2.4 MGD)		Phase II (4.0 MGD)	Phase III (5.0 MGD)	Phase IV (6.0 MGD)	
		Phase I - South Plant	Phase I - West Plant	Phase II - West Plant (add'l)	Phase III - West Plant (add'l)	Phase IV - South Plant (add'l)	
B. Influent Hydraulic Loading							
1. Design Average Daily Flow (ADF)	=	0.8	1.6	4.0	5.0	6.0	MGD
	=	556	1,111	2,778	3,472	4,167	gpm
2. Peaking Factor	=	4.00	4.00	4.00	4.00	4.00	Q
3. Max 2-hour Peak Flow	=	3.2	6.4	16	20	24	MGD
	=	2,222	4,444	11,111	13,889	16,667	gpm
C. Aeration Basin							
Numbers of Aeration Basin		2	3	3	2	2	
Length		23.8	70	70	70	70	
Width		71.3	30	30	30	30	ft
Depth		14	15.12	15.12	15.12	15.12	ft
Volume		47,514	95,256	95,256	63,504	63,504	ft
							cf
Organic Loading (TCEQ)		35	35	35	35	35	
Organic Loading to Aeration		1663.0012	3333.96	3333.96	2222.64	2222.64	lbs BOD5/day/1000 cf
Allowable ADF to Treat		0.80	1.60	1.60	1.07	1.07	lbs/day
Total Allowable ADF per Phase		2.40		4.00	5.06	6.13	MGD
C. Clarifier							
Number of Clarifiers		2	2	2	2	2	Clarifiers
Diameter		50	60	60	60	60	ft
Depth		12.88	12.88	12.88	12.88	12.88	ft
Surface Area		3927	5655	5655	5655	5655	sqft
Volume		50,580	72,835	72,835	72,835	72,835	cf
Maximum Surface Loading Rate (SLR) at 2-hr Peak Flow		1,200	1,201	1,202	1,203	1,204	gpd/sqft
2-hour Peak based on SLR		4.71	13.58	13.59	13.61	13.62	MGD
ADF		1.18	3.40	3.40	3.40	3.40	
Minimum Detention Time at 2-hr Peak Flow		1.8	2.8	3.8	4.8	5.8	hours
2-hour Peak based on DT		5.04	9.34	6.88	5.45	4.51	MGD
ADF		1.26	2.33	1.72	1.36	1.13	
Clarifier Capacity		1.18	2.33	1.72	1.36	1.13	MGD
Total Allowable ADF per Phase		3.51		5.23	6.60	7.72	MGD

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 21

FEMA FIRM MAP
(Ref. TR 1.1, 5a)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Texas State Plane central zone (FIPSZONE 4203). The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum.** For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910-3282

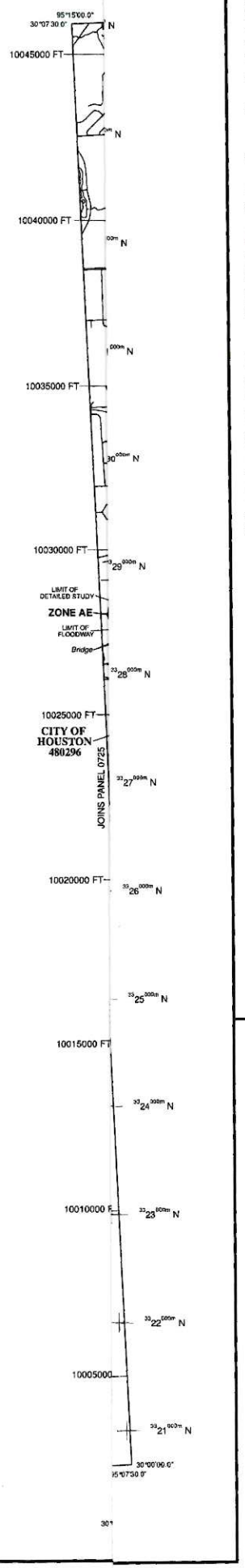
To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242,** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was provided in digital format by the Montgomery County Emergency Communications District, the Montgomery Central Appraisal District, the Texas General Land Office, the Houston-Galveston Area Council, the USGS, and by FEMA.
This map may reflect more detailed or up to date stream channel configurations than those shown on the previous FIRM. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations and improved topographic data. The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles and Floodway Data Tables if applicable, in the FIS report. As a result, the profile baselines may deviate significantly from the new base map channel representation and may appear outside of the floodplain.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the **FEMA Map Service Center** website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the **FEMA Map Service Center** website or by calling the FEMA Map Information eXchange.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	Floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

A — A	Cross section line
23 — 23	Transect line
97°07'30", 32°22'30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4275000mN	1000-meter Universal Transverse Mercator grid ticks, zone 15
6000000 FT	5000-foot grid values: Texas State Plane coordinate system, central zone (FIPSZONE 4203), Lambert Conformal Conic
DX5510	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5	River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
December 19, 1996
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
September 22, 1999
August 18, 2014 - to reflect updated topographic information, to update corporate limits, to change Base Flood Elevations and Special Flood Hazard Areas, to add roads and road names, and to incorporate previously issued Letters of Map Revision.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0750H

FIRM
FLOOD INSURANCE RATE MAP
MONTGOMERY COUNTY, TEXAS
AND INCORPORATED AREAS

PANEL 750 OF 750
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MONTGOMERY COUNTY	480483	0750	H
HOUSTON, CITY OF	480296	0750	H

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48339C0750H
MAP REVISED
AUGUST 18, 2014

Federal Emergency Management Agency

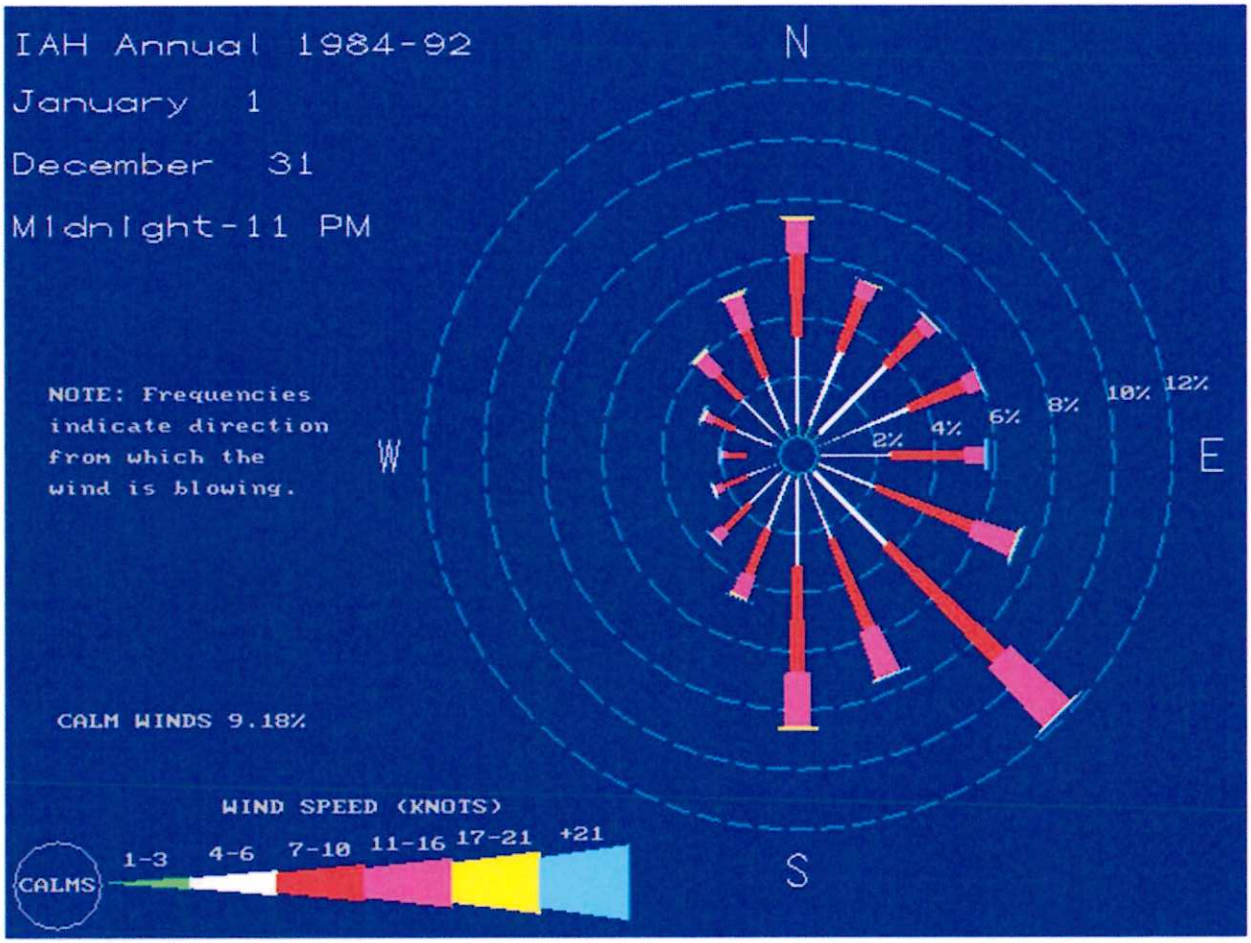
Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 22

WIND ROSE
(Ref. TR 1.1, 5b)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802


IAH Annual 1984-92
January 1
December 31
Midnight-11 PM
NOTE: Frequencies indicate direction from which the wind is blowing.
CALM WINDS 9.18%
N
W
E
S
2%
4%
6%
8%
10%
12%
WIND SPEED (KNOTS)
CALMS
1-3
4-6
7-10
11-16
17-21
+21

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 23

PROOF OF CONTACT FOR ADDITIONAL DISCHARGE
(Ref. AR 1.0, 8H)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

John McKinney Jr., Esq.
Floodplain Administrator

January 17, 2024

A&E Engineers, Inc.
Attn: Gerald L. Gehman
10377 Stella Link Road
Houston, TX 77025-5445

Re: Letter of no objection to additional discharge to Ben's Branch

Dear Mr. Gehman:

On behalf of Porter MUD you have indicted your organization has applied for a major amendment to the current TCEQ domestic wastewater discharge permit. Montgomery County does not own nor maintain Ben's Branch Tributary No 1 therefore we have no authority to grant permission as to any additional discharge. However, you have provided an assurance that the proposed flow of 6.0 MGD will not cause a rise to the base flood elevation nor will result in any adverse impact on adjacent properties or properties downstream of the outfall (referenced here as Exhibit "A").

Based upon this representation, Montgomery County has no objection to the additional discharge. Please contact me with any questions.

Sincerely,

John K. McKinney Jr, Esq., MPA, CFM
Floodplain Administrator

Exhibit "A"

A&S Engineers, Inc.

January 5, 2024

John K. McKinney Jr.
Montgomery County Floodplain Administrator
Montgomery County
501 North Thompson, Suite 100
Conroe, Texas 77301

Attn: John K. McKinney Jr.

Re: Porter MUD
WWTP Discharge Permit – Major Amendment and Renewal
Request for Additional Discharge to Ben's Branch
A&S Project 130008.07

Dear Mr. McKinney:

We are applying for a major amendment to the current TCEQ domestic wastewater discharge permit of Porter Municipal Utility District (MUD) wastewater treatment plant. The plant is currently permitted for 4.0 MGD, and we are proposing to amend the permit to 6.0 MGD.

This plant currently discharges into Ben's Branch Tributary 1; thence to Ben's Branch. TCEQ is requiring authorization to discharge treated wastewater to Ben's Branch for the 6.0 MGD major permit amendment.

The proposed flow of 6.0 MGD will not cause a rise to the base flood elevation, nor will it result in any adverse impact on adjacent properties or properties downstream of the outfall.

If you have any questions, please feel free to contact me at 713-942-2700.

Regards,

Gerald L. Gehman
District Engineer

11757 Katy Fwy, Suite 1100 Houston, TX 77079 713-942-2700 www.asengineers.com

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 24

PUBLIC INVOLVEMENT PLAN FORM
(Ref. AR 1.0)

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☐ New Permit or Registration Application

☒ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☒ Requires public notice,

☒ Considered to have significant public interest, **and**

☒ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☐ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

N/A

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

Porter

(City)

Montgomery

(County)

6923.02, 6923.03, 6923.04, 6924.01, 6924.02, 6925.02, 6926.04

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☒ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

81%

(b) Per capita income for population near the specified location

$42,908

(c) Percent of minority population and percent of population by race within the specified location

White - 63%; Hispanic - 33%; Asian - 2%; Black - 1%; Two or More Races - 1%

(d) Percent of Linguistically Isolated Households by language within the specified location

N/A

(e) Languages commonly spoken in area by percentage

English - 70%; Spanish - 23%; French, Haitan, or Cajun - 1%; German or other West Germanic - 1%; Russian, Polish or other Slavic - 1%; Other Indo-European - 4%

(f) Community and/or Stakeholder Groups

N/A

(g) Historic public interest or involvement

N/A

Domestic Wastewater Permit Renewal
Porter Municipal Utility District
TPDES Permit No. WQ0012242-001
NPDES Permit No. TX 0084042
A&S Project No. 130008.07

EXHIBIT 25

SLUDGE HAUL LETTER

A&S Engineers, Inc.

10377 Stella Link Road, Houston, TX 77025
Ph: 713-942-2700 Fax: 713-942-2799
Texas Engineering Registration No. F-000802

P.O. Box 940820 Houston, Texas 77094 Telephone (281) 491-7775

February 13, 2024

Texas Commission on Environmental Quality
Permits Division
P.O. Box 13087
Austin, TX 78711-3087

RE: Porter MUD
Permit Application

To Whom It May Concern:

This letter serves as notice to the Texas Commission on Environmental Quality ("TCEQ") that Richey Road Municipal Utility District, TCEQ Permit No. TPDES 0012378-002 (the "District") acknowledges the receipt of sludge generated from the **Porter MUD WWTP** (TCEQ TPDES Permit No. WQ0012242-001).

The District and GFL of Texas have entered into an agreement. This agreement allows GFL of Texas to bring sludge from the municipal wastewater treatment plants to the District's wastewater treatment facility for dewatering (TCEQ Processing Permit No/ WQ00048100-000). The District reserves the right to terminate this agreement with GFL of Texas, which permits the processing of sludge at the District's facility, to reject sludge from a Generator that does not comply with the agreement, and to refuse to accept sludge from any generator because of quality, quantity or other reasons.

Sincerely,

Dennis Cain
President
Richey Road M.U.D. Board of Directors

Steve Howard
Regional Environmental Compliance Manager

P.O. Box 940820 Houston, Texas 77094 Telephone (281) 491-7775

February 13, 2024

Porter MUD

To Whom It May Concern:

The attached information is to be used for the referenced WWTP permit application. Sludge from the **Porter MUD WWTP** (WQ0012242-001) may be transported to the Richey Road MUD WWTP where it will be dewatered and disposed at a TCEQ approved disposal site or process facility. The permit should allow for either method of sludge management.

Please note that GFL of Texas (formerly Sprint Waste of Texas) Transporter Number is 25978. Feel free to contact me at stevenhoward@gflenv.com or by phone at (346) 521-8502 if you have any questions.

Sincerely,

Steve Howard
Regional Environmental Compliance Manager
346-521-8502

P.O. Box 940820 Houston, Texas 77094 Telephone (281) 491-7775

February 13, 2024

Chris Sartain
Porter MUD

Dear Chris:

The attached information is to be used for the referenced WWTP permit application. Biosolids from the **Porter MUD WWTP** (WQ0012242001) will be transported by GFL of Texas to a TCEQ approved disposal site or process facility. The permit should allow for either method of sludge management.

Please note that GFL of Texas (formerly Sprint Waste of Texas) Transporter Number is 25978. Feel free to contact me at stevenhoward@gflenv.com or by phone at (346) 521-8502 if you have any questions.

Sincerely,

Steve Howard
Regional Environmental Compliance Manager
346-521-8502

Abesha Michael

From: Anna M. Hunter <amh@as-engineers.com>
Sent: Monday, April 29, 2024 8:37 AM
To: Abesha Michael
Cc: Jonathan D. Liu
Subject: RE: Application No. WQ0012242001 (EPA I.D. No. TX0084042)
Attachments: Affected Land Owners Map.pdf; Affected Landowners List.pdf; 130008.07 USGS-USGS.pdf; Municipal Discharge Amendment Spanish NORI - UPDATED.docx; Mailing List - updated 04-19-2024.docx

Good morning,

Attached are all the attachments found in the link provided along with the previously sent word document. Please let us know if you have any questions or comments.

Thank you,

Anna Hunter, E.I.T.
Project Coordinator

A&S Engineers, Inc. 25TH ANNIVERSARY

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025-5445
O: (713) 942-2700
amh@as-engineers.com
www.as-engineers.com

From: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Sent: Monday, April 29, 2024 8:01 AM
To: Anna M. Hunter <amh@as-engineers.com>
Subject: RE: Application No. WQ0012242001 (EPA I.D. No. TX0084042)

Good Morning,
The link below is expired to open. Would you please email me at attachment asap?

130008.07 - Porter MUD WWTP Permit 2024 Attachments

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

---

From: Anna M. Hunter <amh@as-engineers.com>
Sent: Friday, April 19, 2024 4:22 PM
To: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Cc: Jonathan D. Liu <jdl@as-engineers.com>; Eric Williams <elw@as-engineers.com>
Subject: RE: Application No. WQ0012242001 (EPA I.D. No. TX0084042)

Good afternoon,

Please see attached updated Word Document as requested. The labels only have three lines, as discussed, and duplicated addresses have been removed.

Thank you,

Anna Hunter, E.I.T.
Project Coordinator

A&S Engineers, Inc.

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025-5445
O: (713) 942-2700
amh@as-engineers.com
www.as-engineers.com

From: Anna M. Hunter
Sent: Thursday, March 28, 2024 9:10 AM
To: abesha.michael@tceq.texas.gov
Cc: Jonathan D. Liu <jdl@as-engineers.com>; Eric Williams <ELW@as-engineers.com>
Subject: Application No. WQ0012242001 (EPA I.D. No. TX0084042)

Good morning,

We have revised the requested attachments per TCEQ letter dated March 15, 2024 (attached). Below is a link to the revised attachments. Please let us know if you have any questions or comments.

130008.07 - Porter MUD WWTP Permit 2024 Attachments

Link includes:

- Revised USGS topo-map to include Porter MUD's property boundary, treatment facility boundary, point of discharge, highlighted discharge route, and 1 mile radius from treatment facility.
- Revised Affected Landowner list to include all properties touching treatment facility site boundary and discharge downstream route.
- Revised Affected Landowner Map to include MCAD numbers of all properties touching treatment facility site boundary and discharge downstream route.
- Mailing List of all affected landowners in Avery 5160 format provided in Microsoft word document.
- Translated Spanish NORI provided in Microsoft word document (The provided word document is locked and would not allow us to delete the Coastal Management paragraph or add the permit number to the top).

Thank you,

Anna M. Hunter, E.I.T.
Project Coordinator

A&S Engineers, Inc.

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025-5445
O: (713) 942-2700
amh@as-engineers.com
www.as-engineers.com

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 15, 2024

Mr. Ron Young, NA
Attorney for the District
Young & Boorks
10000 Memorial Drive, Suite 260
HoustonTexas77024

RE: Application to Amend Permit No.: WQ0012242001 (EPA I.D. No. TX0084042)
Applicant Name: Porter Municipal Utility District (CN600792717)
Site Name: Proter MUD WWTP (RN101516920)
Type of Application: Major amendment with renewal

VIA EMAIL

Dear Mr. Liu:

We have received the application for the above-referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

Administrative Report

1. Section 13 on Page 11 of the Administrative Report: Thank you for providing the USGS topo-map. However, the map submitted is insufficient because the required information is not shown on the map. Please submit a USGS map to show and label: The applicant's property boundary, treatment facility boundary within the applicant property boundary, point of discharge, highlighted discharge route to 3 miles downstream or until it reaches a classified segment from the point of discharge, and 1mile radius in all directions of the site.

2. Section 1, item A, affected landowner information, on page 15 of the administrative report: Thank you for the affected landowners' map. However, the map is not sufficient. The landowners at the east and south sides of the applicant's property are not delineated. Please submit a revised affected landowner's map with all the affected landowners' information. Please update the cross-referenced mailing list and the mailing labels accordingly.

3. Section 1, item C, affected landowner information, on page 15 of the administrative report: We are unable to locate the mailing labels. Please **email** the affected landowners mailing labels in Avery 5160 label format (3 columns across, 10 columns down). To ensure we can use the media to print labels, they must be evenly spaced, so that each address prints on one label. Please remove if there is any additional information included with the list, no punctuation.

Public Notice Requirements

Notice of Receipt of Application and Intent to Obtain a Water Quality (NORI)

1. The following is a portion of the NORI 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. Porter Municipal Utility District, P.O. Box 1030, Porter, Texas 77365, which own(s) a wastewater treatment facility for the city of Porter, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012242001 (EPA I.D. No. TX0084042) to authorize an increase in the discharge of treated wastewater to a volume not to exceed a daily average flow of 600,000 gallons per day**.** The domestic wastewater facility is located at 24816 Cunningham Drive, Porter, in Montgomery County, Texas 77365. The discharge route is from the plant site to an unnamed tributary; thence to Bens Branch; thence to Lake Houston. TCEQ received this application on February 26, 2024. The permit application will be available for viewing and copying at Porter Municipal Utility District Office, 23922 Loop 494, Porter, 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=-95.22806,30.08556&level=18***Paste***

Further information may also be obtained from Porter Municipal Utility District at the address stated above or by calling Mr. Ron Young, NA, Attorney for the District, at 713-951-0800.

2. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

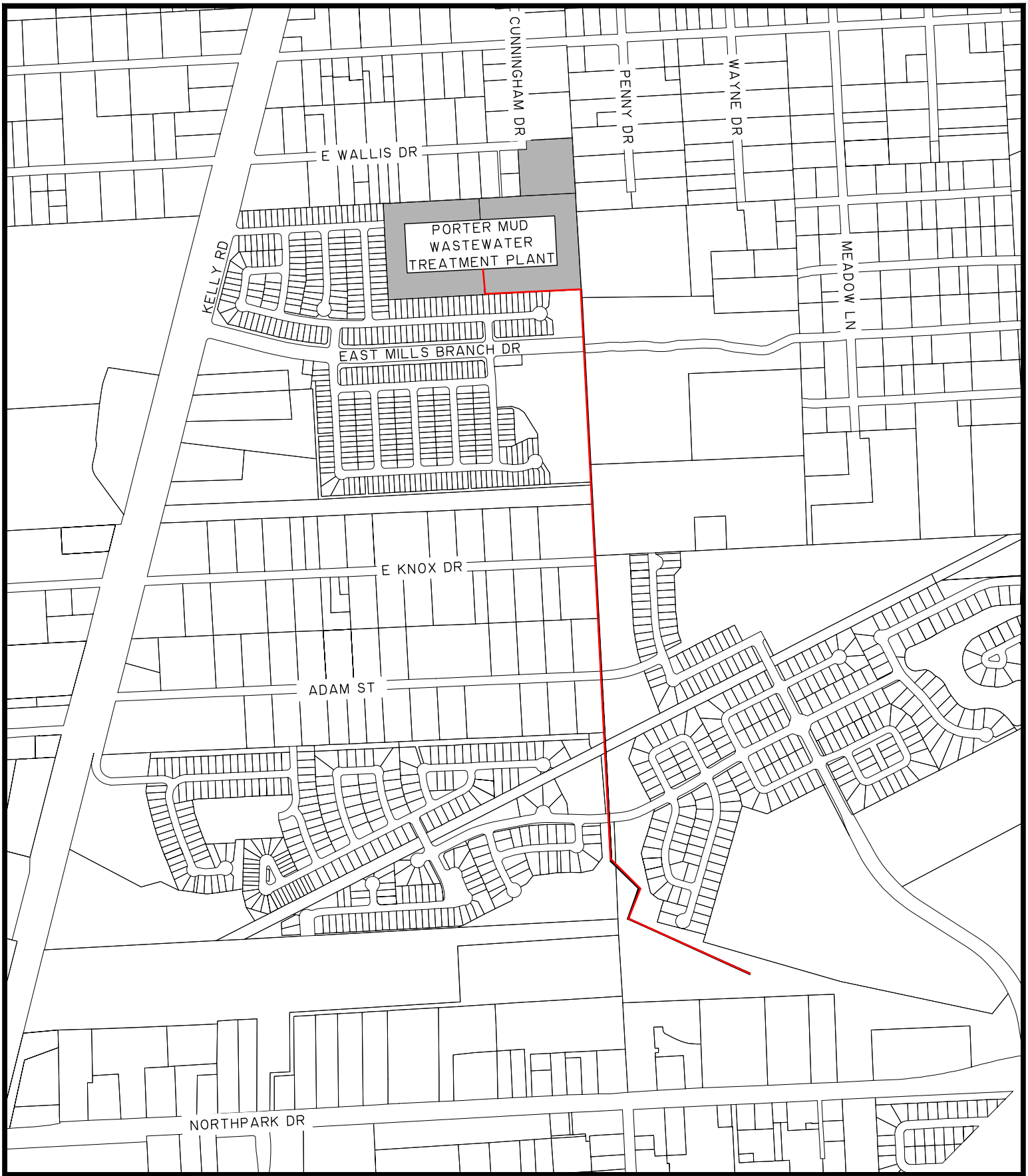
Please submit the complete response, addressed to my attention by March 29, 2024. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4912 or by email at abesha.michael@tceq.texas.gov

Sincerely,

Abesha Michael

Abesha Michael
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

cc: Mr. Jonathan Liu, P.E. A&S Engineers, Inc., 10377 Stella Link Dr., Houston, Texas 77025



PORTER MUNICIPAL UTILITY DISTRICT

AFFECTED LAND OWNERS OVERALL MAP (SHEET 1 OF 3)

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

N

NOT TO SCALE | FEBRUARY 2024 | JOB NO:130008.07

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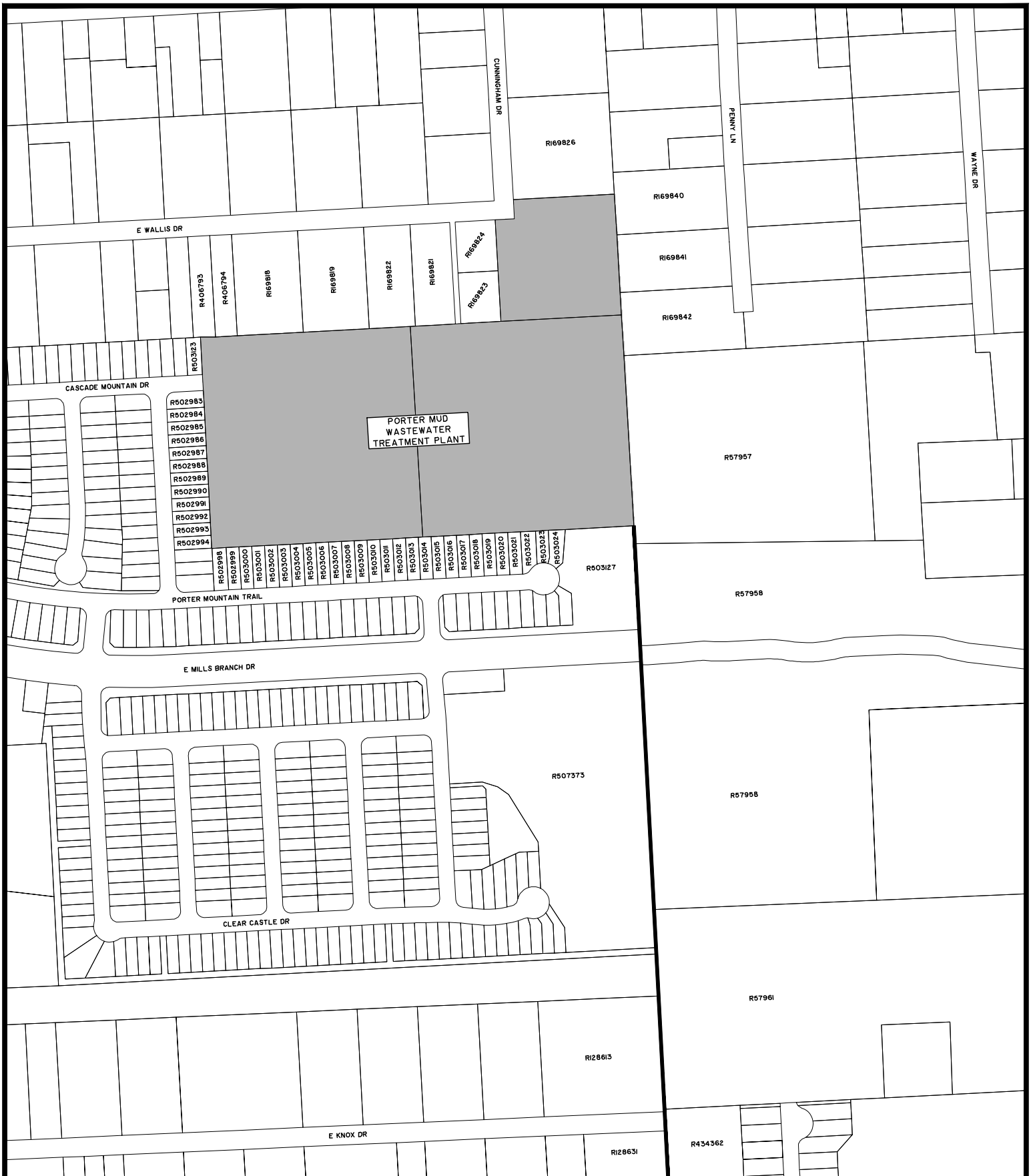

PORTER MUNICIPAL UTILITY DISTRICT

AFFECTED LAND OWNERS (SHEET 2 OF 3)

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: 1" = 400' | MARCH 2024 | JOB NO:130008.07

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PORTER MUNICIPAL UTILITY DISTRICT

AFFECTED LAND OWNERS (SHEET 3 OF 3)

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000802

SCALE: 1" = 400' | FEBRUARY 2024 | JOB NO:130008.07

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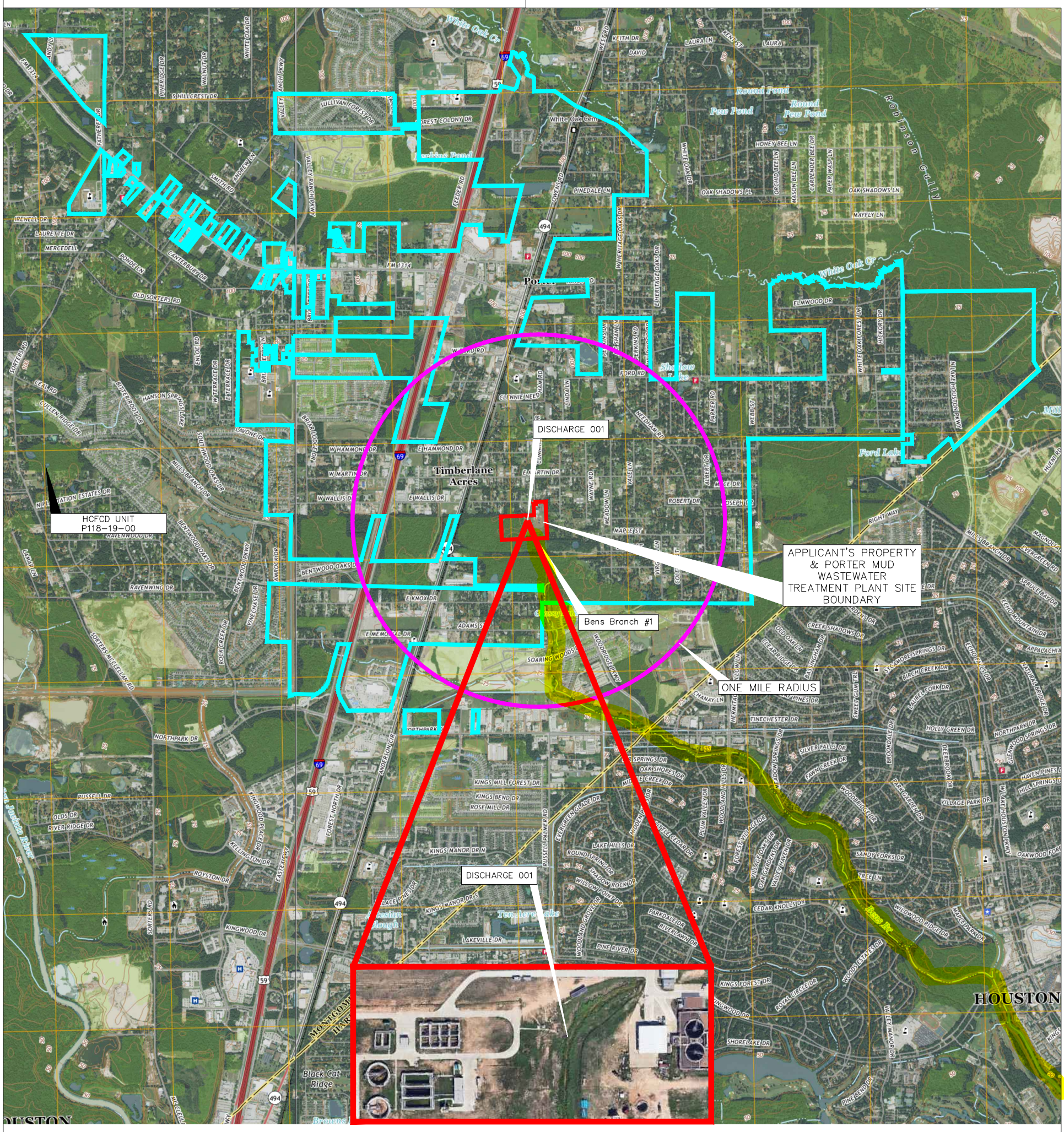
Affected Landowners List

Tract	Owner Name	Street	City	State	Zip	Property Address	Mont CAD #
1	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22099 Cascade Mountain Dr	R503123
2	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25203 Sanitas Valley Dr	R502983
3	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25207 Sanitas Valley Dr	R502984
4	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25211 Sanitas Valley Dr	R502985
5	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25215 Sanitas Valley Dr	R502986
6	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25219 Sanitas Valley Dr	R502987
7	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25223 Sanitas Valley Dr	R502988
8	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25227 Sanitas Valley Dr	R502989
9	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25231 Sanitas Valley Dr	R502990
10	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25235 Sanitas Valley Dr	R502991
11	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25239 Sanitas Valley Dr	R502992
12	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25243 Sanitas Valley Dr	R502993
13	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	25247 Sanitas Valley Dr	R502994
14	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22307 Porter Mountain Trl	R502998
15	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22311 Porter Mountain Trl	R502999
16	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22315 Porter Mountain Trl	R503000
17	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22319 Porter Mountain Trl	R503001
18	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22323 Porter Mountain Trl	R503002
19	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22327 Porter Mountain Trl	R503003
20	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22331 Porter Mountain Trl	R503004
21	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22335 Porter Mountain Trl	R503005
22	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22339 Porter Mountain Trl	R503006
23	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22343 Porter Mountain Trl	R503007
24	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22347 Porter Mountain Trl	R503008
25	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22351 Porter Mountain Trl	R503009
26	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22355 Porter Mountain Trl	R503010
27	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22359 Porter Mountain Trl	R503011
28	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22363 Porter Mountain Trl	R503012
29	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22367 Porter Mountain Trl	R503013
30	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22371 Porter Mountain Trl	R503014
31	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22375 Porter Mountain Trl	R503015
32	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22379 Porter mountain Trl	R503016
33	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22383 Porter Mountain Trl	R503017
34	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22387 Porter Mountain Trl	R503018

Affected Landowners List

35	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22391 Porter Mountain Trl	R503019
36	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22395 Porter Mountain Trl	R503020
37	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22399 Porter Mountain Trl	R503021
38	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22403 Porter Mountain Trl	R503022
39	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22407 Porter Mountain Trl	R503023
40	Camillo ML 2021 SFR LLC	13141 Northwest Fwy	Houston	TX	77040	22411 Porter Mountain Trl	R503024
41	Brooklyn Homeowners Association INC	11000 Corporate Centre Dr STE 150	Houston	TX	77041	22415 porter Mountain Trl	R503127
42	ABV Group Investment LLC	8814 Everheart Ln	Houston	TX	77040	24910 Penny Ln	R57957
43	Josephine Salmon Robison	919 Saint Andrews Rd	Humble	TX	77339	Birch St, Porter, TX, 77365	R57958
44	Porter MUD	10000 Memorial Dr APT 260	Houston	TX	77024	Claremont Hills Ln, Porter, TX, 77365	R507373
45	Robert M Wood	PO Box 2030	Woodville	TX	75979	25247 Kelly Rd	R49498
46	RPEP Kelly Estates LLC	1623 Scenic Shore Dr	Kingwood	TX	77345	Argonne Woods Dr, Porter, TX, 77365	R57961
47	Artemio Muniz	10202 Jensen Dr	Houston	TX	77093	22487 E Knox Dr	R128613
48	Taylor & Dallin Sleeman	22492 E Knox Dr.	Porter	TX	77365	22492 E Knox Dr	R128631
49	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Argonne Woods Dr, Porter, TX, 77365	R434362
50	Beverly A Dobrinski	22502 Adams St	Porter	TX	77365	22502 Adams St	R60148
51	Beverly A Dobrinski	22502 Adams St	Porter	TX	77365	22502 Adams St	R60165
52	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Argonne Woods Dr, Porter, TX, 77365	R434363
53	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Adams St, Porter, TX, 77365	R434364
54	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Woodridge Pkwy, Porter, TX, 77365	R434354
55	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Not Found On Map*	R470828
56	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Soaring Woods Ln, Porter, TX, 77365	R455300
57	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	Soaring Woods Ln, Porter, TX, 77366	R434365
58	Wooddridge MUD	3200 SW Fwy #2600	Houston	TX	77027	25241 Autumn Water St	R505292
59	Woodridge MUD	3200 SW Fwy #2600	Houston	TX	77027	22570 Soaring Woods LN	R505293
60	Northpark Mercer LLC	2461 N Stemmons Fwy	Dallas	TX	75207	1823 Northpark DR	R280019
61	McFadden Properies	1611 Scenic Shore Dr.	Humble	TX	77345	Northpark Dr, Kingwood, TX, 77339	R43993
62	Jim R Cole	1984 Highway 71	Columbus	TX	78934	Northpark Dr, Kingwood, TX, 77340	R231819
63	Jim R Cole	1984 Highway 71	Colombus	TX	78934	1965 Northpark Dr	R219244

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



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FEET

PERMIT NO. WQ0012242-001
NPDES PERMIT NO. TX0084042
HARRIS COUNTY
PORTER MUD
PROJECT NO. 130008.05

EXHIBIT

HARRIS COUNTY
PORTER MUD DISTRICT BOUNDARY
WASTEWATER TREATMENT PLANT

USGS MAP

A&S Engineers, Inc.
10377 Stella Link Road
Houston, TX 77025
713 / 942 / 2700
Texas Engineering Registration No. F-000602

MARCH 2024

FILE: H:\130008\130008.07\130008.07 USGS.DWG March 26, 2024 - 12:38 PM jad

Abesha Michael

From: Abesha Michael
Sent: Friday, March 15, 2024 4:18 PM
To: ryoung@youngandbrooks.com
Cc: jdl@as-engineers.com
Subject: Application to Amend Permit No. WQ0012242001 - Notice of Deficiency Letter
Attachments: WQ0012242001-nod1.pdf; Municipal Discharge Amendment Spanish NORI.docx

Dear Mr. Liu:

The attached Notice of Deficiency letter sent on March 15, 2024, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by March 29, 2024.
Thank you,

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 15, 2024

Mr. Ron Young, NA
Attorney for the District
Young & Boorks
10000 Memorial Drive, Suite 260
HoustonTexas77024

RE: Application to Amend Permit No.: WQ0012242001 (EPA I.D. No. TX0084042)
Applicant Name: Porter Municipal Utility District (CN600792717)
Site Name: Proter MUD WWTP (RN101516920)
Type of Application: Major amendment with renewal

VIA EMAIL

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1. The following is a portion of the NORI 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. Porter Municipal Utility District, P.O. Box 1030, Porter, Texas 77365, which own(s) a wastewater treatment facility for the city of Porter, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012242001 (EPA I.D. No. TX0084042) to authorize an increase in the discharge of treated wastewater to a volume not to exceed a daily average flow of 600,000 gallons per day. The domestic wastewater facility is located at 24816 Cunningham Drive, Porter, in Montgomery County, Texas 77365. The discharge route is from the plant site to an unnamed tributary; thence to Bens Branch; thence to Lake Houston. TCEQ received this application on February 26, 2024. The permit application will be available for viewing and copying at Porter Municipal Utility District Office, 23922 Loop 494, Porter, 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=-95.22806,30.08556&level=18***Paste***

Further information may also be obtained from Porter Municipal Utility District at the address stated above or by calling Mr. Ron Young, NA, Attorney for the District, at 713-951-0800.

2. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Please submit the complete response, addressed to my attention by March 29, 2024. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4912 or by email at abesha.michael@tceq.texas.gov

Sincerely,

Abesha Michael

Abesha Michael
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

cc: Mr. Jonathan Liu, P.E. A&S Engineers, Inc., 10377 Stella Link Dr., Houston, Texas 77025

TPDES PERMIT NO.
WQ0012242001
[For TCEQ office use only - EPA I.D. No. TX0084042]

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

This major amendment with renewals supersedes and replaces TPDES Permit No. WQ0012242001 issued on August 12, 2020.

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

Porter Municipal Utility District

whose mailing address is

P.O. Box 1030
Porter, Texas 77365

is authorized to treat and discharge wastes from the Porter Municipal Utility District Wastewater Treatment Facility, SIC Code 4952

located at 24816 Cunningham Drive, in Montgomery County, Texas 77365

to unnamed tributary, thence to a series of man-made ponds, thence to Bens Branch, thence to Harris County Flood Control District ditch G103-38-00 (during high flow conditions), thence to Lake Houston in Segment No. 1002 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 REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the completion of expansion to the 4.0 million gallons per day (MGD) facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 2.40 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 6,667 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (200)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (300)	25	40	60	Two/week	Composite
Ammonia Nitrogen	3 (60)	6	10	15	Two/week	Composite
Total Zinc	Report (Report)	N/A	Report	N/A	Two/week	Composite
Total Suspended Solid	Report (Report)	N/A	Report	N/A	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 4.0 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.

INTERIM II EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the 4.0 million gallons per day (MGD) facility and lasting through the completion of expansion to 5.0 MGD facilities, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 4.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 11,111 gpm.

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 (334)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (501)	25	40	60	Two/week	Composite
Ammonia Nitrogen	2 (67)	5	10	15	Two/week	Composite
Total Zinc	Report (Report)	N/A	Report	N/A	Two/weeK	Composite
Total Suspended Solid	Report (Report)	N/A	Report	N/A	Two/week	Coposite
E. coli, CFU or MPN per 100 ml	126	N/A	399	N/A	One/week	Grab

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

INTERIM III EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the 5.0 million gallons per day (MGD) facility and lasting through the completion of expansion to 6.0 MGD facilities, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 5.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 13,889 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (292)	12	22	32	Five/week	Composite
Total Suspended Solids	12 (500)	20	40	60	Five/week	Composite
Ammonia Nitrogen	2 (83)	5	10	15	Five/week	Composite
Total Zinc	Report (Report)	N/A	Report	N/A	Five/week	Composite
Total Suspended Solid	Report (Report)	N/A	Report	N/A	Five/week	Copposite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Three/week	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored five times 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 five times per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the 6.0 million gallons per day (MGD) facility and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 6.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 16,667 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (350)	12	22	32	Five/week	Composite
Total Suspended Solids	12 (600)	20	40	60	Five/week	Composite
Ammonia Nitrogen	2 (100)	5	10	15	Five/week	Composite
Total Zinc	Report (Report)	N/A	Report	N/A	Five/week	Composite
Total Suspended Solid	Report (Report)	N/A	Report	N/A	Five/week	Copposite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Three/week	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored five times 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 five times per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

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

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

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

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

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

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

2. Concentration Measurements

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

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

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

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

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

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

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

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

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

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

3. Sample Type

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

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

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

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

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

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

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

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

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

2. Test Procedures

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

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

3. Records of Results

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

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

c. Records of monitoring activities shall include the following:

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

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

iii. date and time of analysis;

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

v. the technique or method of analysis; and

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

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

Division (MC 224).

7. Noncompliance Notification

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

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

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

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

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

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

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

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

9. Changes in Discharges of Toxic Substances

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

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

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

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

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

   iv. The level established by the TCEQ.

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

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

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

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

   iv. The level established by the TCEQ.

10. Signatories to Reports

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

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

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

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

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

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

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

PERMIT CONDITIONS

1. General

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

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

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

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

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

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

2. Compliance

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

   b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit Major Amendment with 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 Major Amendment with 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 Major Amendment with Renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

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

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

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

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

5. Permit Transfer

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

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

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

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

       i. the permittee;

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

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

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

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

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

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

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

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

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

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

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

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

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

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

7. Documentation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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SLUDGE PROVISIONS

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

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

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.

2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.

3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

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

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

ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;

iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and

v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

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

ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;

iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.

vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.

ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

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

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

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

Alternative 9 - i. Biosolids shall be injected below the surface of the land.

ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.

iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.

ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- annually
PCBs	- annually

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

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

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

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

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

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

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

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

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

A. Pollutant Limits

Table 2

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

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

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

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

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

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

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

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

D. Notification Requirements

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

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

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

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

E. Record Keeping Requirements

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

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

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

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

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

5. The following certification statement:

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

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

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

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

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

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

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

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

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

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

3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.

4. The frequency of monitoring listed in Section I.C. that applies to the permittee.

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

6. PCB concentration in sludge or biosolids in mg/kg.

7. Identity of hauler(s) and TCEQ transporter number.

8. Date(s) of transport.

9. Texas Commission on Environmental Quality registration number, if applicable.

10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.

11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.

12. Level of pathogen reduction achieved (Class A, Class AB or Class B).

13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.

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

15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual report.

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

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

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

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

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

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

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

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

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

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

C. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

   Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

   The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224), by September 30 of each year.

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

E. Record Keeping Requirements

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

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

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

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

3. Annual sludge or biosolids production in dry tons/year.

4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge or biosolids transported interstate in dry tons/year.

6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

7. Identity of hauler(s) and transporter registration number.

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

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

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

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

A. General Requirements

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

2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

   c. the name and TCEQ permit number of the receiving facility or facilities;

   d. the location of the receiving facility or facilities;

   e. the name and TCEQ permit number of the facility that generated the waste; and

   f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.

2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

6. the date(s) of disposal at each receiving facility.

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OTHER REQUIREMENTS

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

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

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

3. **Within 90 days of permit issuance**, the permittee shall provide nuisance odor prevention in accordance with 30 TAC § 309.13(e)(2). Prior to the completion of the 2.4 MGD Interim I phase, 4.0 MGD Interim II phase, 5.0 MGD Interim III phase and 6.0 MGD Final phase, 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 nuisance odor prevention 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 Attachment A.

   This provision is continued from the permit issued on August 12, 2020 which has not been complied with to date. See Attachment A

4. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.

5. Discharge is to unnamed tributary Bens Branch, an interimittent stream without perennial pools. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

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 Domestic Wastewater Section (MC 148) for each phase that includes a different monitoring frequency. The request

must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, one/week may be reduced to two/month in the Interim I and II phases and three/week may be reduced to one/week in the Interim III and Final phases. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Domestic Wastewater Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

8. Prior to construction of the Interim III (5.0 MGD) and Final (6.0 MGD) phases of treatment facility, the permittee shall submit to the TCEQ Domestic Wastewater Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Domestic Wastewater Section, the permittee shall submit plans, specifications, and a final engineering design report which comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Pages 2b and 2c of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

   Plans and specifications have been approved for the 2.40 MGD wastewater treatment facility, in accordance with 30 TAC § 217, Design Criteria for Domestic Wastewater Systems. A summary transmittal approval letter was issued on August 6, 2020 (Log No. 0720/095). A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

   Plans and specifications have been approved for the 4.0 MGD wastewater treatment facility, in accordance with 30 TAC § 217, Design Criteria for Domestic Wastewater Systems. A summary transmittal approval letter was issued on March 23, 2022 (Log No. 0229/095). 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, in writing at least forty-five days prior to the completion of the Interim II, III and Final phase facilities on Notification of Completion Form 20007.

10. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 12 within 24 hours from the time the permittee becomes aware of the violation followed by a written report within five working days to TCEQ Region 12 and the Enforcement Division (MC 224).

POLLUTANT	MAL
Total Zinc mg/l	0.005

Test methods utilized shall be sensitive enough to demonstrate compliance with the permit

effluent limitations. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit with consideration given to the MAL for the parameters specified above.

When an analysis of an effluent sample for any of the parameters listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero (0) shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero (0) based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form.

"The reported value(s) of zero (0) for [list parameter(s)] on the self-reporting form for [monitoring period date range] is based on the following conditions: 1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and 2) the analytical results contained no detectable levels above the specified MAL."

When an analysis of an effluent sample for a parameter indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that parameter, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero (0) may not be used.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Revised July 2007

BIOMONITORING REQUIREMENTS

CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER

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

1. Scope, Frequency, and Methodology

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

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

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

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

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

   c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

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

   e. Testing Frequency Reduction

      1) If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing

and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

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

2. Required Toxicity Testing Conditions

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

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

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

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

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

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

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

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

b. Statistical Interpretation

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

2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b..

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

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

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

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

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

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

c. Dilution Water

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

a) substitute a synthetic dilution water that has a pH, hardness, and

alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or

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

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

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

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

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

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

d. Samples and Composites

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

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

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

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

days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

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

3. Reporting

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7) For the fathead minnow, Parameter TLP6C, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

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

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

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

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

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

d. Enter the following codes for retests only:

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

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

4. Persistent Toxicity

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

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

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

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

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

d. If the two retests are performed due to a demonstration of significant

sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

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

5. Toxicity Reduction Evaluation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM:_____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	32%	42%	56%	75%	100%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

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

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

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

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	32%	42%	56%	75%	100%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

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

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected — Date Time / Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
32%							
42%							
56%							
75%							
100%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

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

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
32%									
42%									
56%									
75%									
100%									

* Coefficient of Variation = standard deviation x 100/mean

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

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

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

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

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

1. Scope, Frequency, and Methodology

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

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

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

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

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

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

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

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

2. Required Toxicity Testing Conditions

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

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

c. Samples and Composites

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

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

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

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

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

3. Reporting

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

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

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

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

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

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

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

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

d. Enter the following codes for retests only:

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

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

4. Persistent Mortality

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

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

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

5. Toxicity Reduction Evaluation

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

b. Within 90 days of the retest that demonstrates significant lethality, the permittee

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

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

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

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

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

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

d. The permittee shall submit quarterly TRE activities reports concerning the

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0012242001, EPA I.D. No. TX0084042, to discharge to water in the state.

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

Applicant: Porter Municipal Utility District
P.O. Box 1030
Porter, Texas 77365

Prepared By: Sonia Bhuiya
Domestic Permits Team
Domestic Wastewater Section (MC 148)
Water Quality Division
(512) 239-1205

Date: November 25, 2025

Permit Action: Major Amendment with Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

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

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for an amendment of the existing permit to authorize an increase in the discharge of treated domestic wastewater from an annual average flow not to exceed 4.0 million gallons per day (MGD) to an annual average flow not to exceed 6.0 MGD. The existing wastewater treatment facility serves Porter Municipal Utility District.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 24816 Cunningham Drive, in Montgomery County, Texas 77365.

Outfall Location:

Outfall Number	Latitude	Longitude
001	30.085507 N	95.228766 W

The treated effluent is discharged to unnamed tributary, thence to a series of man-made ponds, thence to Bens Branch, thence to Harris County Flood Control District (HCFCD) ditch G103-38-00 (during high flow conditions), thence to Lake Houston in Segment No. 1002 of the San Jacinto River Basin. The unclassified receiving water uses are minimal

aquatic life use for the unnamed tributary, Bens Branch (for 1.12 miles) and HCFCD ditch G103-38-00, and limited aquatic life use for the man-made ponds and Bens Branch (for 2.18 miles). The designated uses for Segment No. 1002 are primary contact recreation, public water supply, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Porter MUD Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode and conventional aeration modes. Treatment units in the all phases include fine screens, bar screens, an oxidation ditch, an aeration basin, two final clarifiers, two sludge thickeners, three sludge digesters, a sludge drying beds, a chlorine contact chambers, and dechlorination chamber. The facility is operating in the Interim I (2.40 MGD) phase.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, McCarty Landfill, Permit No. 261B, in Harris County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The Porter MUD WWTP does not appear to receive significant industrial wastewater contributions. Based on the information provided by the permittee in the most recent TPDES permit application, the TCEQ determined that there are no significant industrial wastewater contributions currently being discharged to the permittee's POTW.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period January 2022 through January 2024. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and total Zinc. The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	1.72
$CBOD_5$, mg/l	9.23
TSS, mg/l	4.8
NH_3-N, mg/l	1.48
E. coli, CFU or MPN per 100 ml	3
Total Zinc, mg/l	0.06

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

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

A. INTERIM I PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 2.40 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 6,667 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	200	15	25
TSS	15	300	25	40
NH_3-N	3	60	6	10
Total Zinc	Report	Report	N/A	Report
Total suspended solid (TDS)	Report	Report	N/A	Report
DO (minimum)	4.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

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

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

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

B. INTERIM II PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 4.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 11,111 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	334	15	25
TSS	15	501	25	40
NH_3-N	2	67	5	10
Total Zinc	Report	Report	N/A	Report
TDS	Report	Report	N/A	Report
DO (minimum)	6.0	N/A	N/A	N/A
E. coli CFU or MPN/100 ml	126	N/A	N/A	399

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

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

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

C. INTERIM III PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 5.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 13,889 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	7	292	12	22
TSS	12	500	20	40
NH_3-N	2	83	5	10
Total Zinc	Report	Report	N/A	Report
TDS	Report	Report	N/A	Report
DO (minimum)	6.0	N/A	N/A	N/A
E. coli, CFU or	126	N/A	N/A	399

MPN/100 ml

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

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

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Five/week
TSS	Five/week
NH_3-N	Five/week
Total Zinc	Five/week
TDS	Five/week
DO	Five/week
E. coli	Three/week

D. FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 6.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 16,667 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	7	350	12	22
TSS	12	600	20	40
NH_3-N	2	100	5	10
Total Zinc	Report	Report	N/A	Report
TDS	Report	Report	N/A	Report
DO (minimum)	6.0	N/A	N/A	N/A
E. coli, CFU or MPN/100 ml	126	N/A	N/A	399

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

The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be

monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Five/week
TSS	Five/week
NH_3-N	Five/week
Total Zinc	Five/week
TDS	Five/week
DO	Five/week
E. coli	Three/week

E. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, McCarty Landfill, Permit No. 261B, in Harris County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

F. PRETREATMENT REQUIREMENTS

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

G. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 32%, 42%, 56%, 75%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

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

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

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

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

H. SUMMARY OF CHANGES FROM APPLICATION

None.

I. SUMMARY OF CHANGES FROM EXISTING PERMIT

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

Monitoring requirement for total dissolved solids has been included in the draft permit.

Interim I (1.6 MGD) and II (1.90 MGD) phases in the existing permit have been removed in the draft permit, since they are no longer applicable.

The existing permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 1.60 MGD in the Interim I phase, 1.90 MGD in the Interim II phase, 2.40 MGD in the Interim III phase, and 4.0 MGD in the Final phase.

The draft permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2.40 MGD in the Interim I phase, 4.0 MGD in the Interim II phase, 5.0 MGD in the Interim III phase, and 6.0 MGD in the Final phase.

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

The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to unnamed tributary, thence to a series of man-made ponds, thence to Bens Branch, thence to Harris County Flood Control District (HCFCD) ditch G103-38-00 (during high flow conditions), thence to Lake Houston in Segment No. 1002 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed tributary, Bens Branch (for 1.12 miles) and HCFCD ditch G103-38-00, and limited aquatic life use for the man-made ponds and Bens Branch (for 2.18 miles). The designated uses for Segment No. 1002 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. In accordance with 30 Texas Administrative Code § 307.5 and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. This review has preliminarily determined that no water bodies with exceptional, high, or intermediate aquatic life uses are present within the stream reach assessed; therefore, no Tier 2 degradation determination is required. No significant degradation of water quality is expected in water bodies with exceptional, high, or intermediate aquatic life uses downstream, and existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES

(September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. 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. 1002 is not currently listed on the State's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list).

The pollutant analysis of treated effluent provided by the permittee in the application indicated 168 mg/l total dissolved solids (TDS), 9.6 mg/l sulfate, and 25 mg/l chloride present in the effluent. The segment criteria for Segment No. 1002 are 400 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 chloride, or sulfate. The Standards Implementation team recommends a monitoring requirement for total dissolved solids to be included. See Attachment A of this Fact Sheet.

A bacteria Total Maximum Daily Load (TMDL) Project (Project No. 82B) is applicable to portions of the Segment No. 1002 watershed. However, it is **not applicable** to the portion of the Segment No. 1002 watershed into which this facility discharges.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The effluent limits recommended above have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The recommended limits are not contained in the approved WQMP. However, these limits will be included in the next WQMP update.

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. 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.

(3) COASTAL MANAGEMENT PLAN

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

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

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

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

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

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

For the intermittent stream, the percent effluent for acute protection of aquatic life is 100% because the 7Q2 of the intermittent stream is 0.0 cfs. TCEQ uses the U.S. Environmental Protection Agency horizontal jet plume model to estimate the dilution for acute and chronic protection of aquatic life for both discharges greater than 10 MGD into lakes and reservoirs and discharges into sections of lakes and reservoirs that are less than 200 feet wide. General assumptions used in the horizontal jet plume model are: a non-buoyant discharge, a submersed pipe, and no cross flow. The following critical effluent percentages are calculated based on the permitted flow of 6.0 MGD:

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

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality

Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document *Procedures to Implement the Texas Surface Water Quality Standards*. The segment values are 46 mg/l for hardness (as calcium carbonate), 25 mg/l chlorides, 7.1 standard units for pH, and 10 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

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

(b) PERMIT ACTION

Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied in the lake or reservoir for a discharge to an intermittent stream that enters the lake or reservoir within 3 miles downstream of the discharge point. TCEQ uses the U.S. Environmental Protection Agency horizontal jet plume model to estimate dilution for both discharges

greater than 10 MGD into lakes or reservoirs and discharges into sections of lakes or reservoirs that are less than 200 feet wide. General assumptions used in the horizontal jet plume model are: a non-buoyant discharge, a submersed pipe, and no cross flow. Based on this analysis, the following critical effluent percentage is calculated based on the permitted flow of 6 MGD:

Human Health Effluent %: 79%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment B of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1002, 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. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twenty-four chronic tests, with zero demonstrations of significant toxicity (i.e., zero failures).

A reasonable potential (RP) determination was performed in accordance with 40 CFR § 122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of 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 zero failures, a determination of no RP was made. WET limits are not required, and both test species may be eligible for the testing frequency reduction after one year of quarterly testing.

(b) PERMIT ACTION

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

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

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve 24-hour acute tests, with zero demonstrations of significant mortality (i.e., zero failures).

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Sonia Bhuiya at (512) 239-1205.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0012242001 issued on August 12, 2020.

B. APPLICATION

Application received on February 26, 2024, and additional information received on April 30, 2024.

C. MEMORANDA

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

D. MISCELLANEOUS

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

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

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

Texas 2024 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the U.S. Environmental Protection Agency on November 13, 2024.

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

Attachment A: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 4 - Discharge to a Lake

Applicant Name:	**Porter MUD (Segment)**
Permit Number, Outfall:	**12242-001**
Segment Number:	**1002**

Enter values needed for screening:			**Data Source (edit if different)**
EF - Effluent fraction at edge of human health MZ	**0.08**	decimal fraction	8% presumed value for lakes (pg. 79 Ips)
CA - TDS - ambient segment concentration	**186**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	**25**	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	**9**	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	**400**	mg/L	Latest approvied TSWQS, Appendix A
CC - chloride - segment criterion	**100**	mg/L	Latest approvied TSWQS, Appendix A
CC - sulfate - segment criterion	**50**	mg/L	Latest approvied TSWQS, Appendix A
CE - TDS - average effluent concentration	**548**	mg/L	Permit application
CE - chloride - average effluent concentration	**77.3**	mg/L	Permit application
CE - sulfate - average effluent concentration	**36.7**	mg/L	Permit application

Screening Equation

$CC \geq (EF)(CE)+(1-EF)(CA)$

Preliminary Calculations	**Effluent Load**	**Load in Lake**	**New Concentration**	**% Change in Ambient**	**% Change in Assim. Capacity**
Parameter	**(EF)(CE)**	**(1-EF)(CA)**	**Equation 3**		
TDS	43.84	171.12	214.96	15.6	13.5
Chloride	6.184	23	29.18	16.7	5.6
Sulfate	2.936	8.28	11.22	24.6	5.4

No further screening for TDS needed if:	**214.96**	**≤**	**400**
No further screening for chloride needed if:	**29.18**	**≤**	**100**
No further screening for sulfate needed if:	**11.22**	**≤**	**50**

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF	2861.00

Calculate the LTA	LTA = WLA * 0.93			2660.73	
Calculate the daily average	Daily Avg. = LTA * 1.47			**3911.27**	
Calculate the daily maximum	Daily Max. = LTA * 3.11			**8274.87**	
Calculate 70% of the daily average	70% of Daily Avg. =			2737.89	
Calculate 85% of the daily average	85% of Daily Avg. =			3324.58	
No permit limitations needed if:	**548**	**≤**	**2737.89**		
Reporting needed if:	**548**	**>**	**2737.89**	**but ≤**	**3324.58**
Permit limits may be needed if:	**548**	**>**	**3324.58**		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF			962.50	
Calculate the LTA	LTA = WLA * 0.93			895.13	
Calculate the daily average	Daily Avg. = LTA * 1.47			**1315.83**	
Calculate the daily maximum	Daily Max. = LTA * 3.11			**2783.84**	
Calculate 70% of the daily average	70% of Daily Avg. =			921.08	
Calculate 85% of the daily average	85% of Daily Avg. =			1118.46	
No permit limitations needed if:	**77.3**	**≤**	**921.08**		
Reporting needed if:	**77.3**	**>**	**921.08**	**but ≤**	**1118.46**
Permit limits may be needed if:	**77.3**	**>**	**1118.46**		

Attachment B: Calculated Water Quality Based Effluent Limitations

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

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

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

PERMIT INFORMATION

Permittee Name:	Porter Municipal Utility District
TPDES Permit No:	WQ0012242001
Outfall No:	001
Prepared by:	Sonia Bhuiya
Date:	November 24, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	unnamed tributary within three miles of a man-made pond.
TSS (mg/L) (Intermittent):	10
pH (Standard Units) (Intermittent):	7.1
Hardness (mg/L as $CaCO_3$) (Intermittent):	46
Chloride (mg/L) (Intermittent):	25
Effluent Flow for Aquatic Life (MGD)	6
% Effluent for Acute Aquatic Life (Intermittent):	100
Lake/Reservoir within 3 miles:	
Segment No.:	1002
TSS (mg/L) (Lake/Reservoir):	10
pH (Standard Units) (Lake/Reservoir):	7.1
Hardness (mg/L as $CaCO_3$) (Lake/Reservoir):	46
Chloride (mg/L) (Lake/Reservoir):	25
% Effluent for Chronic Aquatic Life (Lake/Reservoir):	100
% Effluent for Acute Aquatic Life (Lake/Reservoir):	100
Effluent Flow for Human Health (MGD):	6
% Effluent for Human Health (Lake/Reservoir):	79
Human Health Criterion (select: PWS, FISH, or INC)	**FISH**

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

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

Lake/Reservoir Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	89125.09	0.529		1.00	Assumed
Cadmium	6.55	-0.92	426579.52	0.190		1.00	Assumed
Chromium (total)	6.34	-0.27	########	0.078		1.00	Assumed
Chromium (trivalent)	6.34	-0.27	########	0.078		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.45	-0.90	354813.39	0.220		1.00	Assumed
Lead	6.31	-0.53	602559.59	0.142		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	6.34	-0.76	380189.40	0.208		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	6.52	-0.68	691830.97	0.126		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (int. stream) (µg/L)*	*FW Acute Criterion (lake) (µg/L)*	*FW Chronic Criterion (lake) (µg/L)*	*WLAa (int. stream) (µg/L)*	*WLAa (lake) (µg/L)*	*WLAc (lake) (µg/L)*	*LTAa (int. stream) (µg/L)*	*LTAa (lake) (µg/L)*	*LTAc (lake) (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	3.0	N/A	3.00	3.00	N/A	1.72	0.960	N/A	1.41	2.98
Aluminum	991	991	N/A	991	991	N/A	568	317	N/A	466	986
Arsenic	340	340	150	643	643	284	368	206	173	254	538
Cadmium	4.03	4.03	0.143	15.9	21.2	0.755	9.13	6.79	0.460	0.676	1.43

Carbaryl	2.0	2.0	N/A	2.00	2.00	N/A	1.15	0.640	N/A	0.940	1.99
Chlordane	2.4	2.4	0.004	2.40	2.40	0.00400	1.38	0.768	0.00244	0.00358	0.00758
Chlorpyrifos	0.083	0.083	0.041	0.0830	0.0830	0.0410	0.0476	0.0266	0.0250	0.0367	0.0777
Chromium (trivalent)	302	302	39.2	1475	3846	500	845	1231	305	448	949
Chromium (hexavalent)	15.7	15.7	10.6	15.7	15.7	10.6	9.00	5.02	6.47	7.38	15.6
Copper	6.83	6.83	4.88	19.9	31.1	22.2	11.4	9.94	13.5	14.6	30.9
Cyanide (free)	45.8	45.8	10.7	45.8	45.8	10.7	26.2	14.7	6.53	9.59	20.2
4,4'-DDT	1.1	1.1	0.001	1.10	1.10	0.00100	0.630	0.352	0.00061	0.00089	0.00189
Demeton	N/A	N/A	0.1	N/A	N/A	0.100	N/A	N/A	0.0610	0.0896	0.189
Diazinon	0.17	0.17	0.17	0.170	0.170	0.170	0.0974	0.0544	0.104	0.0799	0.169
Dicofol [Kelthane]	59.3	59.3	19.8	59.3	59.3	19.8	34.0	19.0	12.1	17.7	37.5
Dieldrin	0.24	0.24	0.002	0.240	0.240	0.00200	0.138	0.0768	0.00122	0.00179	0.00379
Diuron	210	210	70	210	210	70.0	120	67.2	42.7	62.7	132
Endosulfan I (*alpha*)	0.22	0.22	0.056	0.220	0.220	0.0560	0.126	0.0704	0.0342	0.0502	0.106
Endosulfan II (*beta*)	0.22	0.22	0.056	0.220	0.220	0.0560	0.126	0.0704	0.0342	0.0502	0.106
Endosulfan sulfate	0.22	0.22	0.056	0.220	0.220	0.0560	0.126	0.0704	0.0342	0.0502	0.106
Endrin	0.086	0.086	0.002	0.0860	0.0860	0.00200	0.0493	0.0275	0.00122	0.00179	0.00379
Guthion [Azinphos Methyl]	N/A	N/A	0.01	N/A	N/A	0.0100	N/A	N/A	0.00610	0.00896	0.0189
Heptachlor	0.52	0.52	0.004	0.520	0.520	0.00400	0.298	0.166	0.00244	0.00358	0.00758
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	1.126	0.08	1.13	1.13	0.0800	0.645	0.360	0.0488	0.0717	0.151
Lead	27.5	27.5	1.07	150	193	7.52	86.1	61.8	4.59	6.74	14.2
Malathion	N/A	N/A	0.01	N/A	N/A	0.0100	N/A	N/A	0.00610	0.00896	0.0189
Mercury	2.4	2.4	1.3	2.40	2.40	1.30	1.38	0.768	0.793	1.12	2.38
Methoxychlor	N/A	N/A	0.03	N/A	N/A	0.0300	N/A	N/A	0.0183	0.0269	0.0569
Mirex	N/A	N/A	0.001	N/A	N/A	0.00100	N/A	N/A	0.000610	0.000896	0.00189
Nickel	243	243	27.0	563	1166	129	322	373	79.0	116	245
Nonylphenol	28	28	6.6	28.0	28.0	6.60	16.0	8.96	4.03	5.91	12.5
Parathion (ethyl)	0.065	0.065	0.013	0.0650	0.0650	0.0130	0.0372	0.0208	0.00793	0.0116	0.0246
Pentachlorophenol	9.6	9.6	7.40	9.65	9.65	7.40	5.53	3.09	4.51	4.53	9.59
Phenanthrene	30	30	30	30.0	30.0	30.0	17.2	9.60	18.3	14.1	29.8
Polychlorinated Biphenyls [PCBs]	2.0	2.0	0.014	2.00	2.00	0.0140	1.15	0.640	0.00854	0.0125	0.0265
Selenium	20	20	5	20.0	20.0	5.00	11.5	6.40	3.05	4.48	9.48
Silver	0.8	0.8	N/A	6.47	6.47	N/A	3.71	2.07	N/A	3.04	6.43
Toxaphene	0.78	0.78	0.0002	0.780	0.780	0.000200	0.447	0.250	0.000122	0.000179	0.000379
Tributyltin [TBT]	0.13	0.13	0.024	0.130	0.130	0.0240	0.0745	0.0416	0.0146	0.0215	0.0455
2,4,5 Trichlorophenol	136	136	64	136	136	64.0	77.9	43.5	39.0	57.3	121
Zinc	60.7	60.7	61.2	213	481	484	122	154	296	179	379

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	146	135	199	421
Aldrin	########	########	1.147E-04	0.000015	0.000013	0.000019	0.000042
Anthracene	1109	1317	13170	1667	1550	2279	4821
Antimony	6	1071	10710	1356	1261	1853	3921
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	735	684	1005	2127
Benzidine	0.0015	0.107	1.07	0.135	0.126	0.185	0.391
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0316	0.0294	0.0432	0.0915
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00316	0.00294	0.00432	0.00915
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.347	0.323	0.475	1.00
Bis(2-chloroethyl)ether	0.60	42.83	428.3	54.2	50.4	74.1	156
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	9.56	8.89	13.0	27.6
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	348	324	475	1006
Bromoform [Tribromomethane]	66.9	1060	10600	1342	1248	1834	3880
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	58.2	54.2	79.6	168
Chlordane	0.0025	0.0025	0.025	0.00316	0.00294	0.00432	0.00915
Chlorobenzene	100	2737	27370	3465	3222	4736	10020
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	232	215	316	669
Chloroform [Trichloromethane]	70	7697	76970	9743	9061	13319	28179
Chromium (hexavalent)	62	502	5020	635	591	868	1837
Chrysene	2.45	2.52	25.2	3.19	2.97	4.36	9.22
Cresols [Methylphenols]	1041	9301	93010	11773	10949	16095	34052
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00253	0.00235	0.00346	0.00732
4,4'-DDE	0.00013	0.00013	0.0013	0.000165	0.000153	0.000224	0.000475
4,4'-DDT	0.0004	0.0004	0.004	0.000506	0.000471	0.000692	0.00146
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	599	557	818	1731
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	5.37	4.99	7.33	15.5
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	753	700	1029	2178
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	4176	3884	5708	12078
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	2.84	2.64	3.87	8.20
1,2-Dichloroethane	5	364	3640	461	429	629	1332
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	69765	64881	95375	201780
Dichloromethane [Methylene Chloride]	5	13333	133330	16877	15696	23072	48813
1,2-Dichloropropane	5	259	2590	328	305	448	948
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	151	140	205	435

Dicofol [Kelthane]	0.30	0.30	3	0.380	0.353	0.519	1.09
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.00002 53	0.0000 235	0.0000 346	0.0000 732
2,4-Dimethylphenol	444	8436	84360	10678	9931	14598	30885
Di-*n*-Butyl Phthalate	88.9	92.4	924	117	109	159	338
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.01E-07	9.38E-08	1.37E-07	2.91E-07
Endrin	0.02	0.02	0.2	0.0253	0.0235	0.0346	0.0732
Epichlorohydrin	53.5	2013	20130	2548	2370	3483	7369
Ethylbenzene	700	1867	18670	2363	2198	3230	6835
Ethylene Glycol	46744	1.68E+07	1.68E+08	212658 23	197772 15	290725 06	615071 39
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.00012 7	0.0001 18	0.0001 73	0.0003 66
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.00036 7	0.0003 41	0.0005 01	0.0010 6
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00086 1	0.0008 01	0.0011 7	0.0024 8
Hexachlorobutadiene	0.21	0.22	2.2	0.278	0.259	0.380	0.805
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.0106	0.0098 9	0.0145	0.0307
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.329	0.306	0.449	0.951
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.432	0.401	0.590	1.24
Hexachlorocyclopentadiene	10.7	11.6	116	14.7	13.7	20.0	42.4
Hexachloroethane	1.84	2.33	23.3	2.95	2.74	4.03	8.53
Hexachlorophene	2.05	2.90	29	3.67	3.41	5.01	10.6
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	20230	18814	27656	58512
Lead	1.15	3.83	38.3	34.1	31.7	46.5	98.5
Mercury	0.0122	0.0122	0.122	0.0154	0.0144	0.0211	0.0446
Methoxychlor	2.92	3.0	30	3.80	3.53	5.19	10.9
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	125569 6	116779 7	171666 2	363185 0
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	13268	12340	18139	38376
Nickel	332	1140	11400	6929	6444	9473	20041
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	2371	2205	3241	6857
N-Nitrosodiethylamine	0.0037	2.1	21	2.66	2.47	3.63	7.68
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	5.32	4.94	7.26	15.3
Pentachlorobenzene	0.348	0.355	3.55	0.449	0.418	0.614	1.29
Pentachlorophenol	0.22	0.29	2.9	0.367	0.341	0.501	1.06
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.00081 0	0.0007 53	0.0011 0	0.0023 4
Pyridine	23	947	9470	1199	1115	1638	3467
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	0.304	0.283	0.415	0.878
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	33.4	31.0	45.5	96.4
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	354	330	484	1025
Thallium	0.12	0.23	2.3	0.291	0.271	0.398	0.842
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0139	0.0129	0.0190	0.0402
2,4,5-TP [Silvex]	50	369	3690	467	434	638	1350
1,1,1-Trichloroethane	200	784354	7843540	992853	923353	135732 9	287162 9
1,1,2-Trichloroethane	5	166	1660	210	195	287	607
Trichloroethylene [Trichloroethene]	5	71.9	719	91.0	84.6	124	263

2,4,5-Trichlorophenol	1039	1867	18670	2363	2198	3230	6835
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	20.9	19.4	28.5	60.4

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

Aquatic Life ***Parameter***	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Aldrin	0.987	1.19
Aluminum	326	396
Arsenic	178	216
Cadmium	0.473	0.575
Carbaryl	0.658	0.799
Chlordane	0.00251	0.00304
Chlorpyrifos	0.0257	0.0312
Chromium (trivalent)	313	381
Chromium (hexavalent)	5.16	6.27
Copper	10.2	12.4
Cyanide (free)	6.71	8.15
4,4'-DDT	0.000627	0.000762
Demeton	0.0627	0.0762
Diazinon	0.0559	0.0679
Dicofol [Kelthane]	12.4	15.0
Dieldrin	0.00125	0.00152
Diuron	43.9	53.3
Endosulfan I (*alpha*)	0.0351	0.0426
Endosulfan II (*beta*)	0.0351	0.0426
Endosulfan sulfate	0.0351	0.0426
Endrin	0.00125	0.00152
Guthion [Azinphos Methyl]	0.00627	0.00762
Heptachlor	0.00251	0.00304
Hexachlorocyclohexane (*gamma*) [Lindane]	0.0502	0.0609
Lead	4.72	5.73
Malathion	0.00627	0.00762
Mercury	0.790	0.959
Methoxychlor	0.0188	0.0228
Mirex	0.000627	0.000762
Nickel	81.2	98.6
Nonylphenol	4.14	5.03
Parathion (ethyl)	0.00815	0.00990
Pentachlorophenol	3.17	3.85
Phenanthrene	9.87	11.9
Polychlorinated Biphenyls [PCBs]	0.00878	0.0106
Selenium	3.13	3.81
Silver	2.13	2.58
Toxaphene	0.000125	0.000152
Tributyltin [TBT]	0.0150	0.0182
2,4,5 Trichlorophenol	40.1	48.7
Zinc	125	152

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	139	169
Aldrin	0.00001 38	0.00001 68
Anthracene	1595	1937
Antimony	1297	1575
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	703	854
Benzidine	0.129	0.157
Benzo(*a*)anthracene	0.0302	0.0367
Benzo(*a*)pyrene	0.00302	0.00367
Bis(chloromethyl)ether	0.332	0.403
Bis(2-chloroethyl)ether	51.8	62.9
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	9.14	11.1
Bromodichloromethane [Dichlorobromomethane]	333	404
Bromoform [Tribromomethane]	1284	1559
Cadmium	N/A	N/A
Carbon Tetrachloride	55.7	67.6
Chlordane	0.00302	0.00367
Chlorobenzene	3315	4025
Chlorodibromomethane [Dibromochloromethane]	221	269
Chloroform [Trichloromethane]	9323	11321
Chromium (hexavalent)	608	738
Chrysene	3.05	3.70
Cresols [Methylphenols]	11266	13681
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00242	0.00294
4,4'-DDE	0.00015 7	0.00019 1
4,4'-DDT	0.00048 4	0.00058 8
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	572	695
1,2-Dibromoethane [Ethylene Dibromide]	5.13	6.23
m-Dichlorobenzene [1,3-Dichlorobenzene]	720	875
o-Dichlorobenzene [1,2-Dichlorobenzene]	3996	4852
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	2.71	3.29
1,2-Dichloroethane	440	535
1,1-Dichloroethylene [1,1-Dichloroethene]	66762	81068
Dichloromethane [Methylene Chloride]	16150	19611
1,2-Dichloropropane	313	380
1,3-Dichloropropene [1,3-Dichloropropylene]	144	175
Dicofol [Kelthane]	0.363	0.441
Dieldrin	0.00002 42	0.00002 94

2,4-Dimethylphenol	10218	12408
Di-*n*-Butyl Phthalate	111	135
Dioxins/Furans [TCDD Equivalents]	9.65E-08	1.17E-07
Endrin	0.0242	0.0294
Epichlorohydrin	2438	2960
Ethylbenzene	2261	2746
Ethylene Glycol	20350754	24711630
Fluoride	N/A	N/A
Heptachlor	0.000121	0.000147
Heptachlor Epoxide	0.000351	0.000426
Hexachlorobenzene	0.000823	0.00100
Hexachlorobutadiene	0.266	0.323
Hexachlorocyclohexane (*alpha*)	0.0101	0.0123
Hexachlorocyclohexane (*beta*)	0.314	0.382
Hexachlorocyclohexane (*gamma*) [Lindane]	0.413	0.501
Hexachlorocyclopentadiene	14.0	17.0
Hexachloroethane	2.82	3.42
Hexachlorophene	3.51	4.26
4,4'-Isopropylidenediphenol [Bisphenol A]	19359	23508
Lead	32.5	39.5
Mercury	0.0147	0.0179
Methoxychlor	3.63	4.41
Methyl Ethyl Ketone	1201663	1459162
Methyl *tert*-butyl ether [MTBE]	12697	15418
Nickel	6631	8052
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	2268	2755
N-Nitrosodiethylamine	2.54	3.08
N-Nitroso-di-*n*-Butylamine	5.08	6.17
Pentachlorobenzene	0.430	0.522
Pentachlorophenol	0.351	0.426
Polychlorinated Biphenyls [PCBs]	0.000775	0.000941
Pyridine	1147	1392
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.290	0.353
1,1,2,2-Tetrachloroethane	31.9	38.7
Tetrachloroethylene [Tetrachloroethylene]	339	411
Thallium	0.278	0.338
Toluene	N/A	N/A
Toxaphene	0.0133	0.0161
2,4,5-TP [Silvex]	446	542
1,1,1-Trichloroethane	950130	1153730
1,1,2-Trichloroethane	201	244
Trichloroethylene [Trichloroethene]	87.0	105
2,4,5-Trichlorophenol	2261	2746
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	19.9	24.2