

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. Application materials



Este archivo contiene los siguientes documentos:

- 1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
 - Inglés
 - Idioma alternativo (español)
- 2. Primer aviso (NORI, por sus siglas en inglés)
 - Inglés
 - Idioma alternativo (español)
- 3. Solicitud original

TCEQ

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Liberty County Utilities, LLC (CN605861632) proposes to operate the Liberty County Utilities Wastewater Treatment Plant 4 (RN112200563), an activated sludge process with nitrification operated in the complete mix mode. The facility will be located at approximately 1.45 miles east of the intersection of Enloe Blvd. and Plum Grove Road (FM 1010), in Plum Grove, Liberty County, Texas 77327. This application for a new application to discharge a daily average flow of 990,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a screening facility, aeration basin, final clarifier, sludge digester, chlorine contact chamber and dechlorination chamber.

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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí AGUAS PLUVIALES

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

Liberty County Utilities, LLC (CN605861632) propone operar la Planta de Tratamiento de Aguas Residuales de Liberty County Utilities 4 (RN112200563), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en aproximadamente 1.45 milas al este de la interseccion de Bulevar Enloe y Camino Plum Grove (Camino FM 1010, en Plum Grove, Condado de Liberty, Texas 77327. Esta solicitud es para una nueva aplicación para descargar a un flujo promedio diario de 990,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (CBOD₅), solidos totalmente suspendidos (TSS), nitrógeno amoniacal (NH_c-N), y *Escherichia coli*. Los contaminantes potenciales adicionales se incluyen en el Informe Técnico Domésticas 1.0, Seccion 7 Análisis de Contaminantes de Efluente Tratado en el paquete de solicitud de permisos. Las aguas residuales domésticas. **estará** tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una pantalla de barras, balsa de aireación, clarificador finales, digestor de lodos, cámara de contacto de cloro y cámara de decloración.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016794001

APPLICATION. Liberty County Utilities, LLC, P.O. Box 279, New Waverly, Texas 77358, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016794001 (EPA I.D. No. TX0147788) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 990,000 gallons per day. The domestic wastewater treatment facility will be located approximately 1.45 miles east of the intersection of Enloe Boulevard and Plum Grove Road (Farm-to-Market Road 1010), near the city of Plum Grove, in Liberty County, Texas 77327. The discharge route will be from the plant site to Liberty County Municipal Management District No. 1 drainage ditch; thence to an unnamed pond; thence to an unnamed tributary; thence to Orange Branch; thence to Maple Branch; thence to East Fork San Jacinto River. TCEQ received this application on April 23, 2025. The permit application will be available for viewing and copying at Austin Memorial Library, Reference Desk, 220 South Bonham Avenue, Cleveland, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pendingpermits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceg.texas.gov/LocationMapper/?marker=-95.07077,30.212367&level=18

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. Notice of the Application and Preliminary Decision will be published and mailed to those who are on the countywide 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 Liberty County Utilities, LLC at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers, Inc., at 281-373-0500.

Issuance Date: May 12, 2025

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQoo16794001

SOLICITUD. Servicios Públicos del Condado de Liberty, P.O. Box 279, New Waverly, Tejas 77358, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEO) para el propuesto Permiso No. WQ0016794001 (EPA I.D. No. TX0147788) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 990,000 galones por día. La planta estará ubicada aproximadamente 1.45 millas al este de la interseccion de la Bulevar Enloe y Camino Plum Grove (Camino Granja-a-Mercado 1010), circa la Ciudad de Plum Grove, en el Condado de Liberty, Texas 77327. La ruta de descarga será desde el sitio de la planta hasta la zanja de drenaje del Distrito de Gestión Municipal del Condado de Liberty No. 1; de allí a un estanque no nombrado; de allí a un afluente no nombrado; de allí a Orange Branch; de allí a Maple Branch; de allí al East Fork del Río San Jacinto. La TCEQ recibió esta solicitud el 23 de abril de 2025. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca Conmemorativa de Austin, excritorio de referencia, 220 Avenida Bonham Sur, Cleveland, en Condado de Liberty, Tejas antes de la fecha de publicación de este aviso en el periódico. La aplicación, incluidas las actualizaciones y los avisos asociados, están disponibles electrónicamente en la siguiente pagina web:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.07077,30.212367&level=18

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay

un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. 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 Servicios Públicos del Condado de Liberty a la dirección indicada arriba o llamando a Ms. Shelley Young, P.E., WaterEngineers, Inc., al 281-373-0500.

Fecha de emisión 12 de mayo de 2025

Abesha Michael

From: Shelley Young <syoung@waterengineers.com>

Sent: Friday, April 25, 2025 4:35 PM

To: Abesha Michael

Subject: RE: Application for Proposed Permit No. WQ0016794001 - Notice of Deficiency Letter

Have a great weekend.

Shelley Young, P.E. WaterEngineers, Inc. 17230 Huffmeister Road, Suite A Cypress, Texas 77429

281-373-0500

From: Abesha Michael <Abesha.Michael@tceq.texas.gov>

Sent: Friday, April 25, 2025 3:55 PM

To: Shelley Young <syoung@waterengineers.com>

Subject: RE: Application for Proposed Permit No. WQ0016794001 - Notice of Deficiency Letter

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: 0: 512-239-4912

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: Shelley Young < syoung@waterengineers.com>

Sent: Friday, April 25, 2025 3:33 PM

To: Abesha Michael < Abesha.Michael@tceq.texas.gov >

Subject: RE: Application for Proposed Permit No. WQ0016794001 - Notice of Deficiency Letter

Hi Abesha,

Regarding your NOD letter dated today, please accept the following:

This Limited Liability Company does not have a leadership structure that has a president, vice
president, etc. It is comprised of members. Shannon Marsh is the Managing Member. We have
filed many signature pages that have been styled this way in the past that have been sufficient for
filing.

- 2. Please see the "labels" document attached.
- 3. The portion of the NORI looks fine.
- 4. Please find attached the Spanish version of the NORI.

Please let me know if you have any questions.

Regards, Shelley

Shelley Young, P.E. WaterEngineers, Inc. 17230 Huffmeister Road, Suite A Cypress, Texas 77429

281-373-0500

From: Abesha Michael < Abesha. Michael@tceq.texas.gov >

Sent: Friday, April 25, 2025 11:56 AM

To: Shelley Young <syoung@waterengineers.com>

Subject: Application for Proposed Permit No. WQ0016794001 - Notice of Deficiency Letter

Dear Ms. Young,

The attached Notice of Deficiency letter sent on April 25, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by May 9, 2025.

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

Email: abesha.michael@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQoo16794001

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https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.07077,30.212367&level=18

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

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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 específico. 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 Servicios Públicos del Condado de Liberty a la dirección indicada arriba o llamando a Ms. Shelley Young, P.E., WaterEngineers, Inc., al 281-373-0500.

Fecha de emisión

COLONY RIDGE DEVELOPMENT LLC P O BOX 279 FRESNO TX 77545 ELUID REYES
39 LAKEVIEW STREET
CLEVELAND TX 77327

BERLY ESTRADA 8800 W US 290 APT 1237 AUSTIN TX 78736

DERIC GUZMAN 681 UNION STREET APT 1 EW BEDFORD MA 02740 FRITTO JOURDAIN 6111 GLENMONT DRIVE APT 83 HOUSTON TX 77081 CINTHIA CRUZ 10580 HAMMERLY APT 2413 HOUSTON TX 77043

LEANDRO RUIZ 635 SUMMER STREET APT 1N NEW BEDORD MA 02746 JOSE ESTRADA & MARIA AGUIRRE 2724 CLEVELAND AVENUE NEW ORLEANS LA 70119 RUBEN RUIZ 7715 ½ KELLER STREET HOUSTON TX 77012

LIBERTY COUNTY MUNICIPAL MANAGEMENT DISTRICT #1 9 GREENWAY PLAZA SUITE 1000 HOUSTON TX 77046

REBECCA BLANCO 1234 CR 3550 CLEVELAND TX 77327 ZITALI MONTANEZ 356 CR 5010 CLEVELAND TX 77327

WALTER PEREZ & MARIBEL GUERRERO 1909 JEAN STREET HOUSTON TX 77023

ALEJANDRO CAMPANA 2611 COLONY HAVEN CIRCLE SPRING TX 77373

JEIMY SALAZAR 2611 COLONY HAVEN CIRCLE SPRING TX 77373 YONAEL AMADOR 8312 N IH-35 APT 156 AUSTIN TX 78753 ZOILA REYES 35 BULLARD STREET APT 3 NEW BEDFORD MA 02746

VICTOR CARDENAS & YLIANA MAIZO 15155 KATY FREEWAY APT 217 HOUSTON TX 77094 JOSE CANTU 1210 SOL STREET HOUSTON TX 77029 DEYNER RUIZ 35 BULLARD STREET APT 3 NEW BEDFORD MA 02746

MILTON MARTINEZ 905 CYPRESS STATION DRIVE APT 03 HOUSTON TX 77090 MARIO DOMINGUEZ-LUNA 4100 E 50TH STREET APT 304 ODESSA TX 79762 AMAURY JORRIN 7630 BELLERIVE DRIVE APT 13 HOUSTON TX 77036

MARTHA DIAZ 172 ROAD 5122 CLEVELAND TX 77327 LINDA ALCIUS 6111 GLENMONT DRIVE APT 83 HOUSTON TX 77081 SAUL GONZALEZ-VALDIOSERA 522 SOUTH DURBIN STREET UNIT B CASPER WY 82601

EDGAR VAZQUEZ 13050 SOUTH BLESSEN ROAD AMARILLO TX 79119 MARCELINO MARTINEZ & SANDRA HERNANDEZ 29902 BROWNSVILLE STREET MAGNOLIA TX 77354

ERICK URBINA 1543 MICHIGAN AVENUE APT 105 MIAMI BEACH FL 33139 **JOSE RIVAS EBLER SANCHEZ ROLANDO JIMENES** 1515 BODART DRIVE 5500 5500 ANTOINE APT 25 4322 SPRING VALLEY ROAD **HOUSTON TX 77090 HOUSTON TX 77041 HOUSTON TX 77091** TATIANA ARRYAVE **BERTIN SOSA & GEMINA YANEZ** LAZARO HERNANDEZ-AYALA & 8900 RESEARCH PARK DR APT 1411 1055 CR 7000 MARIA HERNANDEZ THE WOODLANDS TX 77381 **CLEVELAND TX 77327** 2760 CR 5018 **CLEVELAND TX 77327** JORGE ANGEL **ALMAY NUNEZ** SALVADOR NUNEZ 4926 PARADISE LANE 2188 CR 5030 2188 CR 5030 **HOUSTON TX 77048 CLEVELAND TX 77327 CLEVELAND TX 77327 GONZALO PEREZ** JUAN LOPEZ ALBA GARAY 2188 CR 5030 112 CR 5221 **8127 BEN AVENUE CLEVELAND TX 77327 CLEVELAND TX 77327** NORTH HOLLYWOOD CA 91605 MARIA ARMENTA & JUAN NAVARRO **GLENDA PAZ-GARAY** SAMUEL SILVA 455 CR 5011 2406 NARROW VALLEY DRIVE 10335 LONGMONT DRIVE CEDAR PARK TX 78613 **HOUSTON TX 77042 CLEVELAND TX 77327 EDNA FLORES CECILIA PAZ-GARAY** JOSE IRACHETA 455 CR 5011 7302 ALABONSON ROAD APT 1206 **4047 SALINA LANE CLEVELAND TX 77327 HOUSTON TX 77088 HUMBLE TX 77396** PABLO CUBILLO MARILU MARTINEZ MAIKEL PUPO 4900 WOODWAY DRIVE SUITE 1110 2611 COLONY HAVEN CIRCLE 2611 COLONY HAVEN CIRCLE SPRING TX 77373 **HOUSTON TX 77056** SPRING TX 77373 **ERIBELLA GONZALEZ** JOSUE JAIME **LIUDIS TAMAYO** 5838 LOMA LINDA 945 CR 51023 333 AIRTEX DRIVE APT 8206 **HOUSTON TX 77085 HOUSTON TX 77090 CLEVELAND TX 77327** JUSTINO GRACIA & TERRESA MAZANO FRANCISCO CASTILLO VICTOR GRIJALVA 11111 SAGEVIEW DRIVE 2604 VANCE STREET 1922 SANDY HILL CIRCLE

DENIS GUZMAN 681 UNION STREET APT 1 NEW BEDFORD MA 02740

HOUSTON TX 77089

RUBEN BARRON 9806 SHADOW VILLA LANE HOUSTON TX 77044

CYPRESS TX 77433

MARIA ESTRADA 3931 KNOTTYNOLD LANE HOUSTON TX 77053

HOUSTON TX 77093

MIGUEL BARRIENTOS 15323 MERRITT LANE HOUSTON TX 77060 JORGE CUELLAR 14622 MONTEREY CYPRESS DRIVE HOUSTON TX 77068 NEGASH DESTA 3018 SHERBROOKE CANYON LANE HOUSTON TX 77047

SETEGN GELETE 13127 WOODVINE TRAIL HOUSTON TX 77072

MIRIAM GONZALEZ & CARLOS CASTRO 9502 HUNTINGTON HILL DRIVE HOUSTON TX 77099 JOSE ROQUE & LETICIA SANCHEZ 9534 RUMBLING WOOD LANE HOUSTON TX 77086

JESUS GARCIA & WILBERLY RAMIREZ 10118 FALLMONT CIRCLE HOUSTON TX 77086

WILLIAMS GARCIA 1719 BONNYTON LANE HOUSTON TX 77014 ELSA ROMERO & HENRY ESCOTO 9502 HUNTINGTON HILL DRIVE HOUSTON TX 77099

CORNELIO ARCE & LAURA TAMAYO 20711 COOK ROAD TOMBALL TX 77377



WATER & WASTEWATER TREATMENT CONSULTANTS

17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643 Tel.: 281-373-0500 Fax: 281-373-1113

Overnight by UPS

April 21, 2025

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

Re: Liberty County Utilities, LLC

Application for a New TPDES Permit

Liberty County Utilities Wastewater Treatment Plant #4

Dear Sir/Ms:

Enclosed please find the original and one copy of the Application for a New Texas Pollution Discharge Elimination System Permit for the proposed Liberty County Utilities Wastewater Treatment Plant #4 in Liberty County.

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

Sincerely,

WATERENGINEERS, INC.

Shelley Young, P.E.

Encl: As noted

APPLICATION FOR A NEW TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT

FOR

LIBERTY COUNTY UTILITIES WASTEWATER TREATMENT PLANT #4

LIBERTY COUNTY UTILITIES, LLC P. O. BOX 279 NEW WAVERLY, TEXAS 77358-0279

PREPARED BY:

WATERENGINEERS, INC.

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

APRIL 2025

APPLICATION FOR A NEW TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT

FOR

LIBERTY COUNTY UTILITIES

WASTEWATER TREATMENT PLANT #4

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TCEQ Domestic Wastewater Permit Application Domestic Technical Report 1.0	Technical Report	
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: <u>Liberty County Utilities</u>, <u>LLC</u>
PERMIT NUMBER (If new, leave blank): WQ00<u>New</u>

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

	Y	N		Y	N
Administrative Report 1.0	\boxtimes		Original USGS Map		
Administrative Report 1.1			Affected Landowners Map	\boxtimes	
SPIF	×		Landowner Disk or Labels	\boxtimes	
Core Data Form	X		Buffer Zone Map	\boxtimes	
Summary of Application (PLS)	X		Flow Diagram	\boxtimes	
Public Involvement Plan Form	×		Site Drawing	\boxtimes	
Technical Report 1.0	\boxtimes		Original Photographs		
Technical Report 1.1	\boxtimes		Design Calculations		
Worksheet 2.0	\boxtimes		Solids Management Plan	\boxtimes	
Worksheet 2.1	\boxtimes		Water Balance	Ó	\boxtimes
Worksheet 3.0	Þ	\boxtimes			
Worksheet 3.1		\boxtimes			
Worksheet 3.2		\boxtimes			
Worksheet 3.3					
Worksheet 4.0	2	\boxtimes			
Worksheet 5.0					
Worksheet 6.0					
Worksheet 7.0					

For TCEQ Use Only	
Segment Number	County
Expiration Date	Region
Permit Number	

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION **ADMINISTRATIVE REPORT 1.0**

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

Section 1. Application Fees (Instructions Page 26)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 □	\$315.00 □
≥0.05 but <0.10 MGD	\$550.00 □	\$515.00 □
≥0.10 but <0.25 MGD	\$850.00 □	\$815.00 □
≥0.25 but <0.50 MGD	\$1,250.00 □	\$1,215.00 □
≥0.50 but <1.0 MGD	\$1,650.00 ⊠	\$1,615.00 □
≥1.0 MGD	\$2,050.00 □	\$2,015.00
Minor Amendment (for any	flow) \$150.00 □	

Payment	Inform	ation
----------------	--------	-------

Mailed Check/Money Order Number: 1561

Check/Money Order Amount: \$1,650.00

Name Printed on Check: WaterEngineers, Inc.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes \square

Section 2. Type of Application (Instructions Page 26)

a.	Che	ck the box next to the appropriate authorization type.						
		Publicly Owned Domestic Wastewater						
	\boxtimes	Privately-Owned Domestic Wastewater						
		Conventional Water Treatment						
b.	Che		the appropriate facility status.					
		Active 🛭 In	nactive					

C.	Cne	eck the box next to the appropriate permit ty	pe.							
	\boxtimes	TPDES Permit								
		TLAP								
		TPDES Permit with TLAP component								
		Subsurface Area Drip Dispersal System (SAI	DDS)							
d.	Che	eck the box next to the appropriate applicatio	n typ	e						
	\boxtimes	New								
		Major Amendment with Renewal		Minor Amendment with Renewal						
		Major Amendment without Renewal		Minor Amendment without Renewal						
		Renewal without changes		Minor Modification of permit						
e.	For	amendments or modifications, describe the J	propo	osed changes: <u>N/A</u>						
f.	For	or existing permits:								
	Peri	mit Number: WQ00 <u>N/A</u>								
	EPA	I.D. (TPDES only): TX Click to enter text.								
	Exp	iration Date: Click to enter text.								

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

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

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

Liberty County Utilities, LLC

(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: 605861632

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

Prefix: Mr. Last Name, First Name: Marsh, Shannon

Title: Managing Member Credential: Click to enter text.

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

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

N/A

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

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name. First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. ADMIN.03

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Ms.

Last Name, First Name: Young, Shelley

Title: Engineer

Credential: P.E.

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A

City, State, Zip Code: Cypress, TX 77429

Phone No.: 281-373-0500

E-mail Address: syoung@waterengineers.com

Check one or both:

 \boxtimes **Administrative Contact** X **Technical Contact**

B. Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

E-mail Address: Click to enter text.

Check one or both:

Administrative Contact

Technical Contact

Permit Contact Information (Instructions Page 27) Section 5.

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

A. Prefix: Mr.

Last Name, First Name: Marsh, Shannon

Title: Managing Member

Credential: Click to enter text.

Organization Name: Liberty County Utilities, LLC

Mailing Address: P.O. Box 279

City, State, Zip Code: New Waverly, TX 77358

Phone No.: 800-224-4035

E-mail Address: marshwaterman@aol.com

B. Prefix: Mr. Last Name, First Name: Harris, John

Title: Member Credential: Click to enter text.

Organization Name: Liberty County Utilities, LLC

Mailing Address: P.O. Box 279 City, State, Zip Code: Fresno, TX 77545

Phone No.: <u>281-989-3635</u> E-mail Address: <u>jharris@colonyridge.com</u>

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Harris, John

Title: Member Credential: Click to enter text.

Organization Name: Liberty County Utilities, LLC

Mailing Address: P.O. Box 279 City, State, Zip Code: Fresno, TX 77545

Phone No.: <u>281-989-3635</u> E-mail Address: <u>jharris@colonyridge.com</u>

Section 7. DMR/MER Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Marsh, Shannon

Title: Managing Member Credential: Click to enter text.

Organization Name: Liberty County Utilities, LLC

Mailing Address: P.O. Box 279 City, State, Zip Code: New Waverly, TX 77358

Phone No.: 800-224-4035 E-mail Address: marshwaterman@aol.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Young, Shelley

Title: Engineer Credential: P.E.

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A City, State, Zip Code: Cypress, TX 77429

Phone No.: 281-373-0500 E-mail Address: syoung@waterengineers.com

	Pa	ckage			
	Inc	dicate b	y a check m	ark t	he preferred method for receiving the first notice and instructions:
		E-ma	il Address		
		Fax			
		Regul	ar Mail		
C.	Со	ntact p	ermit to be	liste	d in the Notices
	Pre	efix: <u>Ms</u>	.		Last Name, First Name: Young, Shelley
	Tit	le: <u>Engi</u>	neer		Credential: P.E.
	Or	ganizat	ion Name: <u>V</u>	VaterI	Engineers, Inc.
	Ma	iling A	ddress: <u>1723</u>	o Huf	ffmeister Road, Suite A City, State, Zip Code: Cypress, TX 77429
	Ph	one No.	: <u>281-373-05</u>	00	E-mail Address: syoung@waterengineers.com
D.	Pu	blic Vie	wing Infor	matio	on
	•	•	lity or outfai ist be provid		ocated in more than one county, a public viewing place for each
	Pul	blic bui	lding name:	Austi	in Memorial Library
	Lo	cation v	vithin the b	uildin	ng: Reference Desk
	Ph	ysical A	ddress of B	uildir	ng: <u>220 S. Bonham Avenue</u>
	Cit	y: <u>Cleve</u>	<u>land</u>		County: <u>Liberty</u>
	Co	ntact (L	ast Name, F	irst N	Name): <u>Librarian</u>
	Pho	one No.	: 281-592-39	20 Ex	xt.: Click to enter text.
E.	Bil	ingual 1	Notice Requ	ıirem	ients
				_	ed for new, major amendment, minor amendment or minor applications.
	be	needed		instru	tion is only used to determine if alternative language notices will uctions on publishing the alternative language notices will be in
	obt				L coordinator at the nearest elementary and middle schools and nation to determine whether an alternative language notices are
	1.				program required by the Texas Education Code at the elementary st to the facility or proposed facility?
		\boxtimes	Yes		No
		If no , p	oublication o	of an	alternative language notice is not required; skip to Section 9
	2.				ttend either the elementary school or the middle school enrolled in cogram at that school?
		\boxtimes	Yes		No

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

	3.	Do the locatio	students at n?	these	schools	attend	a bilingual	educa	tion prog	gram a	t another
			Yes	\boxtimes	No						
	4.		the school b							gram l	out the school has
			Yes	\boxtimes	No						
	5.		nswer is yes ed. Which lar								tive language are
F.	Su	mmary	of Applicati	ion in	ı Plain La	nguage	Template	2			
			the F. Sumn n as the plai) Form 20972), ment.
	At	tachme	nt: <u>ADMIN.o.</u>	4							
G.	Pu	blic Inv	olvement Pl	lan Fo	orm						
		_	the Public In it or major a							_	plication for a t.
	At	tachme	nt: <u>ADMIN.o</u>	5							
Se	cti	on 9.	Regulat Page 29		Entity a	nd Pe	ermitted	Site 1	Inform	ation	(Instructions
A.			The state of the same of the state of the st			CEQ, p	rovide the	Regula	ted Entit	y Num	ber (RN) issued to
			N Click to en			t http://	/sassassas15 to	rea tev	as gov/c	muh/	to determine if the
			ently regula			it ittp./	7*****13.60	cqitch	us.gov/ci	pub/	to acternine if the
B.	Na	me of p	roject or site	e (the	name kn	own by	the comm	unity	where loc	cated):	
	Lib	er <u>ty</u> Cou	n <u>ty</u> Utilities V	NWT	P #4						
C.	Ow	ner of t	reatment fac	cility:	Liberty C	ounty U	tilities, LLC				
	Ow	nership	of Facility:		Public	\boxtimes	Private		Both		Federal
D.	Ow	ner of l	and where t	reatm	ent facil	ity is or	will be:				
	Pre	fix: Clic	k to enter te	ext.	Las	t Name	, First Nan	ne: Clic	ck to ente	er text.	
	Tit	le: Click	to enter tex	ĸt.	Cre	edentia	: Click to e	enter te	ext.		
	Org	ganizati	on Name: <u>Li</u> ì	berty	County Ut	ilities, I	LC				
	Ma	iling Ad	ldress: <u>P.O. B</u>	Box 27	9		City, State,	Zip C	ode: <u>New</u>	Waver	ly, TX 77358
	Pho	one No.:	800-224-40	35	E-1	mail Ac	ldress: <u>mar</u>	shwate	rman@ao	l.com	
			owner is not or deed rec		_		-		or co-ap	plican	t, attach a lease
		Attachi	ment: Click t	to ent	er text.						

	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	agreement or deed recorded ease	
	Attachment: Click to enter te	xt.
F.	Owner sewage sludge disposal si property owned or controlled by	te (if authorization is requested for sludge disposal on the applicant)::
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
	THE CHERT OF THE TE	
C		
	ection 10. TPDES Discharg	ge Information (Instructions Page 31)
	ection 10. TPDES Discharg	ge Information (Instructions Page 31) ity location in the existing permit accurate?
	Is the wastewater treatment facil Yes No	ity location in the existing permit accurate?
	Is the wastewater treatment facil Yes If no, or a new permit application	
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 1.45 miles east of the 1010).	ity location in the existing permit accurate? on, please give an accurate description: e intersection of Enloe Blvd. and Plum Grove Road (aka FM
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 1.45 miles east of the 1010). Are the point(s) of discharge and	ity location in the existing permit accurate? on, please give an accurate description:
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 1.45 miles east of the 1010). Are the point(s) of discharge and Yes No If no, or a new or amendment permit application	ity location in the existing permit accurate? on, please give an accurate description: e intersection of Enloe Blvd. and Plum Grove Road (aka FM
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 1.45 miles east of the 1010). Are the point(s) of discharge and Yes No If no, or a new or amendment perpoint of discharge and the discharge and the discharge and the permit of the permit o	ity location in the existing permit accurate? on, please give an accurate description: e intersection of Enloe Blvd. and Plum Grove Road (aka FM the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 aty Municipal Management District No. 1 drainage ditch, thence Branch; thence to East Fork San Jacinto River in Segment No.
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 1.45 miles east of the 1010). Are the point(s) of discharge and Yes No If no, or a new or amendment period point of discharge and the discharge and the discharge and the period of the 1010 count of the period of the 1010 count of the 1010 count to Orange Branch; thence to Maple	ity location in the existing permit accurate? on, please give an accurate description: e intersection of Enloe Blvd. and Plum Grove Road (aka FM the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 aty Municipal Management District No. 1 drainage ditch, thence Branch; thence to East Fork San Jacinto River in Segment No.
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 1.45 miles east of the 1010). Are the point(s) of discharge and Yes No If no, or a new or amendment perpoint of discharge and the discharge and the discharge and the permit of the plant site to Liberty Count to Orange Branch; thence to Maple 1003 of the San Jacinto River Basin	on, please give an accurate description: e intersection of Enloe Blvd. and Plum Grove Road (aka FM the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 aty Municipal Management District No. 1 drainage ditch, thence Branch; thence to East Fork San Jacinto River in Segment No.
А.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 1.45 miles east of the 1010). Are the point(s) of discharge and Yes No If no, or a new or amendment perpoint of discharge and the discharge and the discharge and the permit of the plant site to Liberty Count to Orange Branch; thence to Maple 1003 of the San Jacinto River Basin City nearest the outfall(s): Clevelate County in which the outfalls(s) is	on, please give an accurate description: e intersection of Enloe Blvd. and Plum Grove Road (aka FM the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 aty Municipal Management District No. 1 drainage ditch, thence Branch; thence to East Fork San Jacinto River in Segment No. and /are located: Liberty discharge to a city, county, or state highway right-of-way, or

E. Owner of effluent disposal site:

	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: See ADMIN.10
D.	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: N/A
So	ection 11 TLAD Disposal Information (Instructions Dags 22)
36	ection 11. TLAP Disposal Information (Instructions Page 32)
A.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	□ Yes □ No
	If no, or a new or amendment permit application , provide an accurate description of the disposal site location:
	N/A-Not a TLAP
В.	
C.	County in which the disposal site is located: Click to enter text.
D.	For TLAPs , describe the routing of effluent from the treatment facility to the disposal site:
	Click to enter text.
E.	For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.
Se	ction 12. Miscellaneous Information (Instructions Page 32)
	Is the facility located on or does the treated effluent cross American Indian Land?
	□ Yes ⊠ No
B.	If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?
	□ Yes □ No ⊠ Not Applicable
	If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.
	Click to enter text.

C.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?						
	□ Yes ⊠ No						
	If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: Click to enter text.						
D.	Do you owe any fees to the TCEQ?						
	□ Yes ⊠ No						
	If yes , provide the following information:						
	Account number: Click to enter text.						
	Amount past due: Click to enter text.						
E.	Do you owe any penalties to the TCEQ?						
	□ Yes ⊠ No						
	If yes , please provide the following information:						
	Enforcement order number: Click to enter text.						
	Amount past due: Click to enter text.						
0							
Se	ection 13. Attachments (Instructions Page 33)						
Inc	licate 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.						
\boxtimes	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: <u>ADMIN.02-Proof of Payment, ADMIN.03-Core Data Form, ADMIN.04-Summary of Application in Plain Language Template, ADMIN.05-Public Involvement Plan Form, ADMIN.06- Downstream & Adjacent Landowner Map and List, ADMIN.07-Site and Stream Photographs, ADMIN.08 Buffer Zone Map, ADMIN.09 SPIF Form and Maps, ADMIN.10 Letter to Liberty County Municipal Management District #1 Requesting Permission to Discharge</u>

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: New

Applicant: Liberty County Utilities, LLC

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): Shannon Marsh

Signatory title: Managing Member

Signature:	S		Date:	3/13/26	
	(Use blue ink)				
Subscribed and Sworn to before me by the said Shannon Marsh					
on this	13th	_day of_	March	, 20_ 25.	
My commiss	sion expires on the	30th	_day of_ June	, 20 <u>28</u> .	
			O		
	12-115				

Notary Public

County, Texas

JENNIFER R. MITRICK Notary Public, State of Texas Comm. Expires 06-30-2028 Notary ID 126010225

[SEAL]

DOMESTIC WASTEWATER PERMIT APPLICATION **ADMINISTRATIVE REPORT 1.0**

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

Α.	Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:						
	\boxtimes	The applicant's property boundaries					
	\boxtimes	The facility site boundaries within the applicant's property boundaries					
	\boxtimes	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.	⊠ addı	Indicate by a check mark that a separate list with the landowners' names and mailing dresses cross-referenced to the landowner's map has been provided.					
C.		Indicate by a check mark that the landowners list has also been provided as mailing ls in electronic format (Avery 5160).					
D.	Prov <u>Distr</u>	Provide the source of the landowners' names and mailing addresses: <u>Liberty County Appraisal</u> <u>District</u>					
Е.	As required by <i>Texas Water Code § 5.115</i> , is any permanent school fund land affected by this application?						
		□ Yes ⊠ No					

B.

C.

D.

E.

	If yes land(s, provide the location and foreseeable impacts and effects this application has on the s):				
		k to enter text.				
So	ction	1 2. Original Photographs (Instructions Page 38)				
Pro	ovide (original ground level photographs. Indicate with checkmarks that the following tion 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 mucdownstream (photo 1) and upstream (photo 2) as can be captured. If the discharge an open water body (e.g., lake, bay), the point of discharge should be in the right 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				
Se	ctio	1 3. Buffer Zone Map (Instructions Page 38)				
A.	A. Buffer zone map. Provide a buffer zone map on 8.5×11 -inch paper with all of the follow information. The applicant's property line and the buffer zone line may be distinguished 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. 					
В.	B. Buffer zone compliance method. Indicate how the buffer zone requirements will be Check all that apply.					
	\boxtimes	Ownership				
		Restrictive easement				
		Nuisance odor control				
		Variance				
C.	Unsu unsu	itable site characteristics. Does the facility comply with the requirements regarding itable site characteristic found in 30 TAC § 309.13(a) through (d)?				
		Yes □ No				

DOMESTIC WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: ADMIN.09

SCOMMISSION STATES

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): <u>0.325</u> 2-Hr Peak Flow (MGD): <u>1.300</u>

Estimated construction start date: Q1 2027
Estimated waste disposal start date: Q1 2028

B. Interim II Phase

Design Flow (MGD): <u>0.495</u> 2-Hr Peak Flow (MGD): <u>1.98</u>

Estimated construction start date: Q3 2030
Estimated waste disposal start date: Q3 2031

C. Final Phase

Design Flow (MGD): <u>0.990</u> 2-Hr Peak Flow (MGD): <u>3.96</u>

Estimated construction start date: Q3 2033
Estimated waste disposal start date: Q3 2034

D. Current Operating Phase

Provide the startup date of the facility: N/A-new

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Flow will enter the conventional activated sludge with nitrification process through a screening system into the equalization/anoxic zone; thence to the aeration basin, thence to the clarifier, thence to the chlorine contact chamber for disinfection and discharge. Sludge from the bottom of the clarifier will either be returned to the equalization/anoxic zone or wasted to the digester. Some minor changes will be made to the Phase I plant to allow it to have the Phase II capacity. The third phase will add a structure identical to the first phase with flow being split 50%-50% at a flow splitter box. Chlorinated flow will be combined and dechlorinated in Phase III before final discharge.

B. Treatment Units

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

Table 1.0(1) - Treatment Units

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

C. Process Flow Diagram

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

Attachment: TECH.02

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

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

• Latitude: 30.212725

Longitude: -95.071633

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

Latitude: Click to enter text.

Longitude: <u>Click to enter text.</u>

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

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

Attachment: TECH.03

Provide the name and a des	cription of the area	served by the treatmen	it facility.
Sections from the Santa Fe	residential subdivi	sion.	
Collection System Informate each uniquely owned collection systems. examples.	ction system, existir	ng and new, served by tl	his facility, including
Collection System Informatio		0	D 1.1 6
Collection System Name	Owner Name	Owner Type	Population Served
Santa Fe	Liberty County Utilities, LLC	Privately Owned	15,372
		Choose an item.	
		Choose an item.	
		Choose an item.	
years of being authorized b ☐ Yes ☐ No If yes, provide a detailed di Failure to provide sufficier recommending denial of th	scussion regarding to its interest in the second se	result in the Executive	
Click to enter text.	e unsunt pinase of	phases:	
Section 5. Closure F	Plans (Instruction	ons Page 44)	
Have any treatment units be out of service in the next fiv		vice permanently, or wi	ll any units be taken
□ Yes ⊠ No			

П	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.
	ection 6. Permit Specific Requirements (Instructions Page 44)
Fo	r applicants with an existing permit, check the Other Requirements or Special ovisions of the permit.
A.	Summary transmittal
	Have plans and specifications been approved for the existing facilities and each proposed phase?
	□ Yes ⊠ No
	If yes, provide the date(s) of approval for each phase: Click to enter text.
	Provide information, including dates, on any actions taken to meet a <i>requirement or provision</i> pertaining to the submission of a summary transmittal letter. Provide a copy of an approval letter from the TCEQ, if applicable.
	Summary Transmittal letter will be submitted prior to construction
B.	Buffer zones
	Have the buffer zone requirements been met?
	⊠ Yes □ No
	Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.
	Click to enter text.

C.	Ot	ther actions required by the current permit
	su	bes the Other Requirements or Special Provisions section in the existing permit require bmission of any other information or other required actions? Examples include otification of Completion, progress reports, soil monitoring data, etc.
		□ Yes ⊠ No
		yes , provide information below on the status of any actions taken to meet the nditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
	C	lick to enter text.
D.	Gr	it and grease treatment
	1.	Acceptance of grit and grease waste
		Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?
		□ Yes ⊠ No
		If No, stop here and continue with Subsection E. Stormwater Management.
	2.	Grit and grease processing
		Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.
		Click to enter text.
	3.	Grit disposal
		Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?
		□ Yes □ No
		If No , contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

		Describe the method of grit disposal.
		Click to enter text.
	4.	Grease and decanted liquid disposal
		Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.
		Describe how the decant and grease are treated and disposed of after grit separation.
		Click to enter text.
E .	Sto	ormwater management
~-		Applicability
		Does the facility have a design flow of 1.0 MGD or greater in any phase?
		☐ Yes ⊠ No
		Does the facility have an approved pretreatment program, under 40 CFR Part 403?
		☐ Yes ☒ No
		If no to both of the above, then skip to Subsection F, Other Wastes Received.
	2	MSGP coverage
		Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal
		currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?
		□ Yes □ No
		If yes , please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:
		TXR05 Click to enter text. or TXRNE Click to enter text.
		If no, do you intend to seek coverage under TXR050000?
		□ Yes □ No
	3.	Conditional exclusion
		Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?
		□ Yes □ No

	If yes, please explain below then proceed to Subsection F, Other Wastes Received:					
	Click to enter text.					
4.	Existing coverage in individual permit					
	Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?					
	□ Yes □ No					
	If yes , provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.					
	Click to enter text.					
5.	Zero stormwater discharge					
	Do you intend to have no discharge of stormwater via use of evaporation or other means?					
	□ Yes □ No					
	If yes, explain below then skip to Subsection F. Other Wastes Received.					
	Click to enter text.					
	Note: If there is a potential to discharge any stormwater to surface water in the state as					
	the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.					
6.	Request for coverage in individual permit					
	Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?					
	□ Yes □ No					
	If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or					

discharge it via a separate dedicated stormwater outfall. Please also indicate if you

		intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.
		Click to enter text.
		Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F.	Di	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		⊠ Yes □ No
		yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. e Attachment TECH.04
G.	Ot	her wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		□ Yes ⊠ No
		If yes, attach sewage sludge solids management plan. See Example 5 of instructions.
		In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		Click to enter text.
		Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
	<i>2</i> .	Acceptance of septic waste
		Is the facility accepting or will it accept septic waste?
		□ Yes ⊠ No
		If yes, does the facility have a Type V processing unit?
		□ Yes □ No
		If yes, does the unit have a Municipal Solid Waste permit?
		□ Yes □ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action. Click to enter text. Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring. 3. Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6) Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above? Yes 🛛 No If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action. Click to enter text. Pollutant Analysis of Treated Effluent (Instructions Page Section 7. Is the facility in operation? Yes ⊠ No

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

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

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

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					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, umohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

^{*}TPDES permits only †TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Shannon Marsh

Facility Operator's License Classification and Level: B

Facility Operator's License Number: WW0004433

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

A.	WW	TP's Sewage Sludge or Biosolids Management Facility Type
	Che	ck all that apply. See instructions for guidance
		Design flow>= 1 MGD
	\boxtimes	Serves >= 10,000 people
		Class I Sludge Management Facility (per 40 CFR § 503.9)
	\boxtimes	Biosolids generator
		Biosolids end user - land application (onsite)
		Biosolids end user - surface disposal (onsite)
		Biosolids end user - incinerator (onsite)
B.	ww	TP's Sewage Sludge or Biosolids Treatment Process
	Che	ck all that apply. See instructions for guidance.
		Aerobic Digestion
		Air Drying (or sludge drying beds)
		Lower Temperature Composting
		Lime Stabilization
		Higher Temperature Composting
		Heat Drying
		Thermophilic Aerobic Digestion
		Beta Ray Irradiation
		Gamma Ray Irradiation
		Pasteurization
		Preliminary Operation (e.g. grinding, de-gritting, blending)
		Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
		Sludge Lagoon
		Temporary Storage (< 2 years)
		Long Term Storage (>= 2 years)
		Methane or Biogas Recovery
		Other Treatment Process: Click to enter text.

C. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the

permit will authorize all sewage sludge or biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	Off-site Third-Party Handler or Preparer	Not Applicable		N/A: Transported to another facility for further processing	N/A: Trasporrted to another facility for further processing
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): <u>Transport to another WWTP</u>

D. Disposal site

Disposal site name: <u>Mount Houston Road MUD WWTP</u>
TCEQ permit or registration number: <u>WQoo11154001</u>

County where disposal site is located: Harris

E. Transportation method

Method of transportation (truck, train, pipe, other): <u>Truck</u>

Name of the hauler: Magna-Flow Environmental

Hauler registration number: 21484

Sludge is transported as a:

Liquid 🛛	semi-liquid 🗆	semi-solid □	solid 🗆
----------	---------------	--------------	---------

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

A. Beneficial use authorization

Does the existing permit include authorization for land application of biosolids for beneficial use?				
	Yes	\boxtimes	No	
If yes , are you requesting to continue this authorization to land apply biosolids for beneficial use?				
	Yes		No	

) Form								l Use of Sewage Sludge e instructions for	
		Yes		No							
B.	Sludge	e proc	essii	ng auth	orization						
				g permit sal optic		uthorization f	or an	y of the	follov	ving sludge processing,	
	Slu	idge C	omp	osting				Yes	\boxtimes	No	
	Ma	rketin	g and	d Distril	bution of I	Biosolids		Yes	\boxtimes	No	
	Slu	ıdge Sı	urfac	e Dispo	sal or Sluc	lge Monofill		Yes	\boxtimes	No	
	Te	mpora	ry st	orage ir	ı sludge la	goons		Yes	\boxtimes	No	
	autho	rizatio	n, is	the con	npleted D o		wate	r Permi	t App	esting to continue this lication: Sewage Sludge application?	•
		Yes		No							
Se	ction	11.	Sev	vage S	ludge L	agoons (In	stru	ctions	Page	e 53)	
						ge lagoons?			8		•
		es 🛛	-			, 0					
If y	es, cor	nplete	the	remaino	ler of this	section. If no,	proc	eed to S	Section	ı 12.	
Α.	Locati	on inf	orma	ation							
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: 											
		Attac	hme	nt: Click	to enter t	ext.					
	•	USDA	Natı	ıral Res	ources Co	nservation Se	rvice S	Soil Ma _l) :		
		Attac	hme	nt: Click	to enter t	ext.					
	•	Feder	al En	nergenc	y Managen	nent Map:					
		Attac	hme	nt: Click	to enter t	ext.					
	•	Site m	nap:								
		Attac	hme	nt: <u>Click</u>	to enter t	ext.					
	Discus apply.	s in a	desc	ription	if any of tl	ne following e	xist w	vithin th	ne lago	oon area. Check all that	
		Over	lap a	design	ated 100-y	ear frequency	floo	d plain			
		Soils	with	floodi	ng classific	cation					
		Over	lap a	ın unsta	ble area						
		Wetl	ands								

☐ Located less than 60 meters from a fault				
□ None of the above				
Attachment: Click to enter text.				
If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:				
Click to enter text.				

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: <u>Click to enter text</u>. Provide the following information:

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

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

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

C. Liner information

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

		Yes □ No			
	If ye	s, describe the liner below. Please note that a liner is required.			
	Click to enter text.				
D.	Site o	levelopment plan			
	Provi	de a detailed description of the methods used to deposit sludge in the lagoon(s):			
	Clicl	k to enter text.			
	<u></u>				
		h the following documents to the application.			
	•	Plan view and cross-section of the sludge lagoon(s)			
		Attachment: Click to enter text.			
	•	Copy of the closure plan			
		Attachment: Click to enter text.			
	•	Copy of deed recordation for the site			
		Attachment: Click to enter text.			
	•	Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons			
		Attachment: Click to enter text.			
		Description of the method of controlling infiltration of groundwater and surface water from entering the site			
		Attachment: Click to enter text.			
	•	Procedures to prevent the occurrence of nuisance conditions			
		Attachment: Click to enter text.			
E.	Grou	ndwater monitoring			
	groun	undwater monitoring currently conducted at this site, or are any wells available for idwater monitoring, or are groundwater monitoring data otherwise available for the e lagoon(s)?			
		Yes □ No			
	types	undwater monitoring data are available, provide a copy. Provide a profile of soil encountered down to the groundwater table and the depth to the shallowest dwater as a separate attachment.			

Attachment: Click to enter text.

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

Α.	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:
C	lick to enter text.
B.	Permittee enforcement status
	Is the permittee currently under enforcement for this facility?
	□ Yes ⊠ No
	Is the permittee required to meet an implementation schedule for compliance or enforcement?
	□ Yes ⊠ No
	If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:
Cl	lick to enter text.
Se	ction 13. RCRA/CERCLA Wastes (Instructions Page 55)
A.	RCRA hazardous wastes Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste? □ Yes ☑ No

B. Remediation activity wastewater

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

□ Yes ⊠ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

- The laboratory is an in-house laboratory and is:
 - o periodically inspected by the TCEQ; or
 - o located in another state and is accredited or inspected by that state; or
 - o performing work for another company with a unit located in the same site; or
 - o 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: <u>N/A – not in operation</u>
Title: <u>Click to enter text.</u>

Signature:	
Date:	

DOMESTIC WASTEWATER PERMIT APPLICATION **TECHNICAL REPORT 1.1**

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

Justification for Permit (Instructions Page 56) Section 1.

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.

Liberty County Utilities, LLC has been asked to provide the water and sewer utilities for parts of Sections 7-9, 10-11, and 12-20 of Santa Fe Subdivision in Liberty County. Liberty County Utilities, LLC already holds TPDES Permit No. WQ0015967001 which serves parts of Sections 7, 8 and 10, WQ0016137001 which will serve Sections 9, 11 and 17, and WQ0016319001 which will serve Sections 7 and 12. There are no other facilities in the area capable of or willing to serve the new sections of the development. This proposed permit will serve Sections 13 and 14.

B. Regionalization of facilities

2.

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment¹.

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: <u>Click to enter text.</u>				
If yes, attach correspondence from the city.				
Attachment: Click to enter text.				
If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.				
Attachment: Click to enter text.				
Utility CCN areas				
Is any portion of the proposed service area located inside another utility's CCN area?				
□ Yes ⊠ No				

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

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

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

⊠ Yes □ No

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

Attachment: TECH.07

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

Attachment: TECH.07

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

Attachment: N/A

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

□ Yes ⊠ No

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

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

A. Current organic loading

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

Average Influent Organic Strength or BOD₅ Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): $\underline{\text{Click}}$ to enter text.

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

Click to enter text.	

B. Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision	0.325 / 0.495 / 0.990	300 / 300 / 300
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	0.325 / 0.495 / 0.990	
AVERAGE BOD ₅ from all sources		300 / 300 / 300

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: E. Coli: 126 mpn/100 ml

B.	Interim II Phase Design Effluent Quality					
	Biochemical Oxygen Demand (5-day), mg/l: <u>10</u>					
	Total Suspended Solids, mg/l: <u>15</u>					
	Ammonia Nitrogen, mg/l: 3					
	Total Phosphorus, mg/l: <u>N/A</u>					
	Dissolved Oxygen, mg/l: 4					
	Other: <u>E. Coli: 126 mpn/100 ml</u>					
C.	Final Phase Design Effluent Quality					
	Biochemical Oxygen Demand (5-day), mg/l: 10					
	Total Suspended Solids, mg/l: <u>15</u>					
	Ammonia Nitrogen, mg/l: 3					
	Total Phosphorus, mg/l: N/A					
	Dissolved Oxygen, mg/l: 4					
	Other: <u>E. Coli: 126 mpn/100 ml</u>					
D.	Disinfection Method					
	Identify the proposed method of disinfection.					
	Dechlorination process: Sodium bisulfite or sulfur dioxide					
	☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow					
	□ Other: Click to enter text.					
Ç.	ction 4 Decign Colculations (Instructions Dags 58)					
	ction 4. Design Calculations (Instructions Page 58)					
	ach design calculations and plant features for each proposed phase. Example 4 of the tructions includes sample design calculations and plant features.					
	Attachment: TECH.01					
Se	ction 5. Facility Site (Instructions Page 59)					
A.	100-year floodplain					
	Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?					
	⊠ Yes □ No					
	If no , describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.					
	Click to enter text.					

	Provide the source(s) used to determine 100-year frequency flood plain.	
	FEMA Flood Map 48291C0275C	
	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: <u>Click to enter text.</u>	
	If no, provide the approximate date you anticipate submitting your application to the Corps: <u>Click to enter text.</u>	
B.	Wind rose	
	Attach a wind rose: <u>TECH.03</u>	
Se	ction 6. Permit Authorization for Sewage Sludge Disposal	
	(Instructions Page 59)	
A.	Beneficial use authorization	
	Are you requesting to include authorization to land apply sewage sludge for beneficial us on property located adjacent to the wastewater treatment facility under the wastewater permit?	e
	□ Yes ⊠ No	
	If yes, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451): Click to enter text.	
B.	Sludge processing authorization	
	Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:	
	□ Sludge Composting	
	☐ Marketing and Distribution of sludge	
	☐ Sludge Surface Disposal or Sludge Monofill	
	If any of the above, sludge options are selected, attach the completed Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056): Click to enter text.	
Se	ction 7. Sewage Sludge Solids Management Plan (Instructions Page	

Attach a solids management plan to the application.

Attachment: TECH.04

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

Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1.	Domestic Drinking Water Supply (Instructions Page 63)
Is there a surfa	ce water intake for domestic drinking water supply located within 5 miles
downetroam fr	om the naint or proposed point of discharge?

the proposed point of discountries.
□ Yes ⊠ No
If no , proceed it Section 2. If yes , provide the following:
Owner of the drinking water supply: <u>Click</u> to enter text.
Distance and direction to the intake: Click to enter text.
Attach a USGS map that identifies the location of the intake.
Attachment: Click to enter text.
Section 2 Discharge into Tidelly, Affected Waters (Instructions Dage
Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)
Does the facility discharge into tidally affected waters?
□ Yes ⊠ No
If no , proceed to Section 3. If yes , complete the remainder of this section. If no, proceed to Section 3.
A. Receiving water outfall
Width of the receiving water at the outfall, in feet: Click to enter text.
B. Oyster waters
Are there oyster waters in the vicinity of the discharge?
☐ Yes ☐ No
If yes, provide the distance and direction from outfall(s).
Click to enter text.
Chek to enter text.
C. Sea grasses
Are there any sea grasses within the vicinity of the point of discharge?
□ Yes □ No
If yes, provide the distance and direction from the outfall(s).
Click to enter text.

Section 3. Classified Segments (Instructions Page 63) Is the discharge directly into (or within 300 feet of) a classified segment? Yes 🛛 No **If yes**, this Worksheet is complete. If no, complete Sections 4 and 5 of this Worksheet. **Description of Immediate Receiving Waters (Instructions** Section 4. **Page 63)** Name of the immediate receiving waters: Liberty County Municipal Management District #1 drainage ditch A. Receiving water type Identify the appropriate description of the receiving waters. Stream Freshwater Swamp or Marsh Lake or Pond Surface area, in acres: Click to enter text. Average depth of the entire water body, in feet: Click to enter text. Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text. X Man-made Channel or Ditch Open Bay Tidal Stream, Bayou, or Marsh Other, specify: Click to enter text. B. Flow characteristics If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area upstream of the discharge. For new discharges, characterize the area downstream of the discharge (check one). \boxtimes 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

X

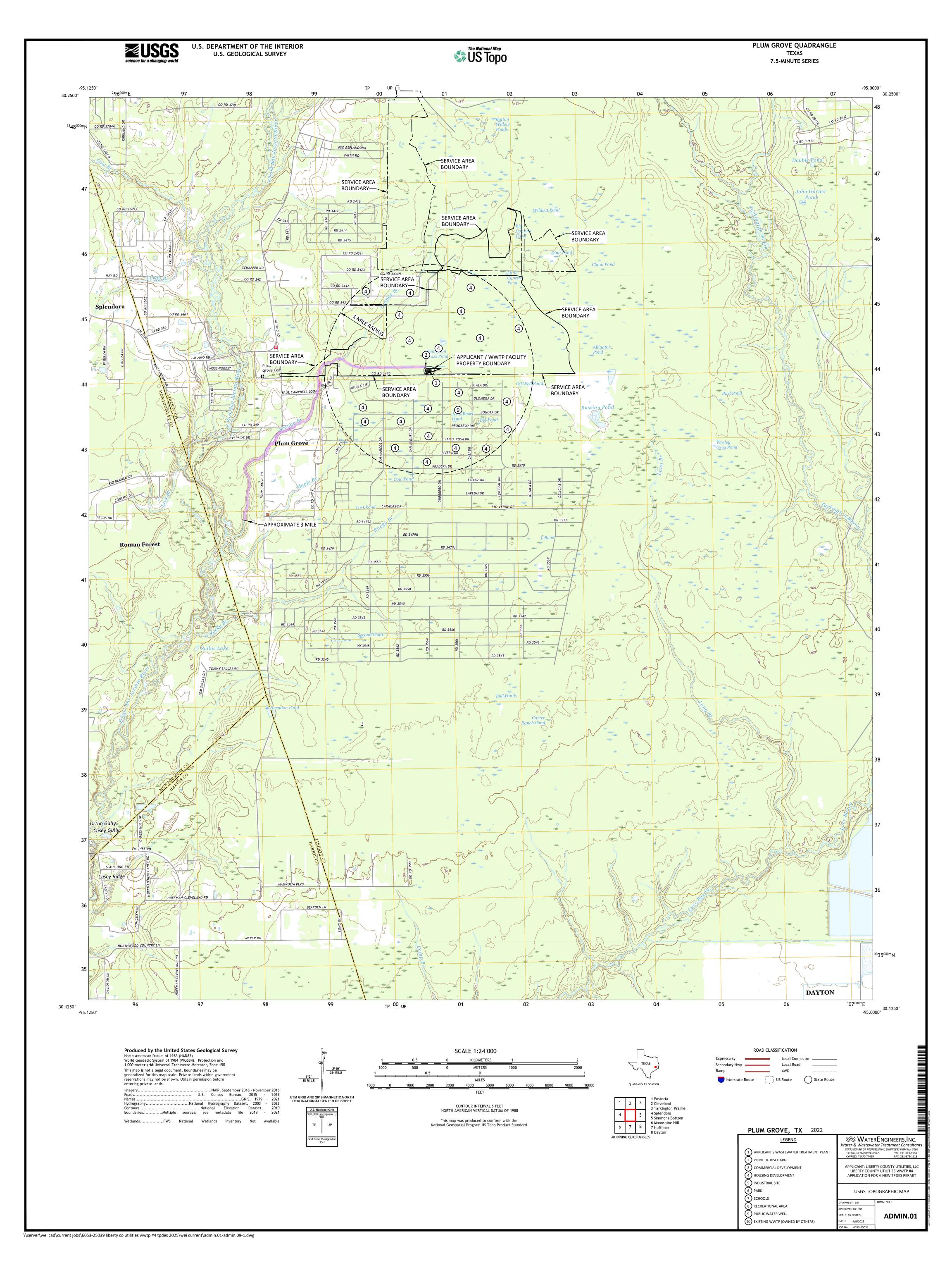
Personal observation

		Other, specify: <u>Click to enter text</u> .												
C.	C. Downstream perennial confluences													
List the names of all perennial streams that join the receiving water within three mile downstream of the discharge point.														
	Orang	e Branch												
D.	Downs	stream characteristics												
		receiving water characteristics char rge (e.g., natural or man-made dams		rithin three miles downstream of the ads, reservoirs, etc.)?										
	□ Yes ⊠ No													
	If yes, discuss how.													
	Click	to enter text.												
E.		l dry weather characteristics e general observations of the water l	body	during normal dry weather conditions.										
	During normal dry weather conditions, drainage ditch is dry.													
		nd time of observation: March 13, 20:												
	Was th	e water body influenced by stormwa	ater r	runoff during observations?										
	\boxtimes	Yes □ No												
Se	ction	5. General Characteristics Page 65)	s of	the Waterbody (Instructions										
A.	Upstre	am influences												
		mmediate receiving water upstream ced by any of the following? Check		ne discharge or proposed discharge site apply.										
		Oil field activities	\boxtimes	Urban runoff										
		Upstream discharges		Agricultural runoff										
		Septic tanks		Other(s), specify: Click to enter text.										

B.	Waterbody uses										
	Observed or evidences of the following uses. Check all that apply.										
		Livestock watering		Contact recreation							
		Irrigation withdrawal		Non-contact recreation							
		Fishing		Navigation							
		Domestic water supply		Industrial water supply							
		Park activities	\boxtimes	Other(s), specify: <u>unknown</u>							
C.	Waterb	oody aesthetics									
Check one of the following that best describes the aesthetics of the receiving water the surrounding area.											
	 Wilderness: outstanding natural beauty; usually wooded or unpastured area; wa 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 color turbid											
	Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored										

ATTACHMENT ADMIN.01 USGS Topographic Map

(Reference Administrative Report 1.0, Page 10, Question 13)



ATTACHMENT ADMIN.02

Proof of Payment

(Reference Administrative Report 1.0, Page 10, Question 13)

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: Click to enter text.

- 1. Check or Money Order Number: 1561
- 2. Check or Money Order Amount: \$1,650.00
- 3. Date of Check or Money Order: 4/10/2025
- 4. Name on Check or Money Order: WaterEngineers, Inc.
- 5. APPLICATION INFORMATION

Name of Project or Site: Liberty County Utilities WWTP#4

Physical Address of Project or Site: No physical address is yet available

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.

---- HOLD TO LIGHT TO VIEW THUE WATERMARK IN PAREN. HEAV SUNSHIVE RED LOCK DIGARPEARS WH

WATERENGINEERS, INC. 17230 HUFFMEISTER ROAD, SUITE A CYPRESS, TX 77429 (281) 373-0500 AmegyBank.
P.O. Box 27459
Houston, Toxas 77227-7459
AmegyBank.com + 713-235-8810
35-1125/1130

4/10/2025

PAY TO THE ORDER OF___

TCEQ

******1,650.00

One Thousand Six Hundred Fifty and 00/100*

DOLLARS

1561

TCEQ 12100 PARK 35 CIRCLE MC-214 AUSTIN, TX 78753-1808

New TPDES Liberty Co Utilities 6053-25039

Shit

VOID AFTER NINETY DAYS

UTHORIZED SIGNATURE

MEMO

ATTACHMENT ADMIN.03

Core Data Form

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



TCEQ Use Only

TCEQ Core Data Form

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

<u> SECTION I: General Inform</u>	<u>ration</u>										
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)											
2. Customer Reference Number (if iss					3. Re	gulate	d Entity Reference	ce Number	(if issued)		
CN 605861632	fc	for CN or RN numbers in Central Registry**			RN	RN					
SECTION II: Customer Info	rmation										
4. General Customer Information	5. Effective Date	ate 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 i	updated	auto	matic	ally l	pased	on what is cu	rrent and	active with the		
Texas Secretary of State (SOS)	or Texas Com	nptroller	of P	ublic /	4 <i>c</i> co	unts (CPA).				
6. Customer Legal Name (If an individual	, print last name firs	st: eg: Doe,	John)		<u>if</u> i	new Cus	stomer, enter previ	ous Custome	er below:		
Liberty County Utilities, LLC											
7. TX SOS/CPA Filing Number	8. TX State Tax	, •	s)		9.	Federa	I Tax ID (9 digits)	10. DUN	S Number (if applicable)		
0803597398	3207402093	37						6			
11. Type of Customer: Corporation	on	☐ Individual				Partnership:					
Government: City County Federal	State Other		Sole P	roprieto	rship		Other: limited lia	ability com	ipany		
12. Number of Employees ☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher ☐ Yes ☐ No											
14. Customer Role (Proposed or Actual) –	as it relates to the	Regulated	Entity I	isted on	this for	m. Pleas	se check one of the	following:			
⊠Owner	or	0	wner &	Opera	tor						
Occupational Licensee Respo	nsible Party	☐ V	oluntar	y Clean	up Ap	plicant	Other:				
P.O. Box 279											
15. Mailing Address:											
City New Waver	ly	State	TX		ZIP	7735	58	ZIP+4			
16. Country Mailing Information (if outside	de USA)			17. E-	Mail A	ddress	(if applicable)				
				mars	hwa	terma	n@aolcom				
18. Telephone Number	19.	19. Extension or Code			20. Fax Number (if applicable)						
(800) 224-4035						(936) 344-9838					
SECTION III: Regulated Entity Information											
21. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)											
⊠ New Regulated Entity											
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)											
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)											
Liberty County Utilities Wastewater Treatment Plant #4											

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23. Street Address of	No address has been assigned											
the Regulated Entity:												
(No PO Boxes)	City	Plum Gr	ove	State	TX	ZIP	773	327	ZIP + 4			
24. County	Liberty								·			
	Enf	ter Physical L	.ocati	on Description	n if no	street addre	ss is prov	ided.				
25. Description to Physical Location:	Approximately 1.45 miles east of the intersection of Enloe Blvd. and Plum Grove Road (aka FM 1010) in Liberty County											
26. Nearest City							State)	Nea	rest ZIP Code		
Plum Grove							TX			77327		
27. Latitude (N) In Decir	nal:	30.21236	7			28. Longitud	le (W) lı	n Decimal:	95.07077	5		
Degrees	Minutes		Seco	onds	-	Degrees		Minutes		Seconds		
30		12		44.52		-95)4	14.79		
29. Primary SIC Code (4 di	gits) 30.	Secondary S	IC Co	de (4 digits)		Primary NAIC 6 digits)	S Code	32. Se (5 or 6 c	econdary NAI	CS Code		
4952						320	3	(0.0.0	(0.0.00)			
33. What is the Primary B	usiness of t	this entity?	(Do по	t repeat the SIC or	NAICS	description.)						
Providing wastewate	r collection	on and trea	tme	nt services	to ad	ditional co	nnectio	ns in the S	Santa Fe S	ubdivision		
						P.O. Box 279						
34. Mailing Address:												
Address.	City	New Wave	erly	State	TX ZIF	ZIP 7735		ZIP + 4				
35. E-Mail Address:					ma	rshwaterman	@aol.con	1	•			
36. Telephone Number 37. Extension or Code 38. Fax Number (if applicable)										able)		
(800)2	24-4035			(936) 344-9838								
9. TCEQ Programs and ID I				write in the perm	its/regi	stration number	s that will b	e affected by t	the updates sub	omitted on this		
☐ Dam Safety	Districts		☐ Edwards Aquifer			☐ Emiss	ions Invent	ory Air [Air Industrial Hazardous Was			
Municipal Solid Waste	☐ New Sou	rce Review Air	OSSF			Petrole	eum Storag	e Tank L	PWS			
Sludge	Storm Water		☐ Title V Air			☐ Tires		Tr	Used Oil			
Oldage		ato	1"	THE VAII		L files						
☐ Voluntary Cleanup				Wastewater Agr	☐ Water Rights			Other:				
SECTION IV: Prep	arer Inf	ormation										
40. Name: Shelley Ye						41. Title:	Consi	ılting Eng	ineer			
42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address												
(281) 373-0500 (281) 373-1113 syoung@waterengineers.com												
SECTION V: Auth	orized S	ignature										
6. By my signature below, I ignature authority to submit t	certify, to th	e best of my k										

signature authority to identified in field 39.

Company:	WaterEngineers, Inc.	Job Title:	Engineer	Engineer				
Name(In Print):	Shelley Young, P.E.			Phone:	(281	373,0500		
Signature:	Shelley young			Date:	4/	10/2025		

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ATTACHMENT ADMIN.04

Plain Language Summary

(Reference Administrative Report 1.0, Page 7, Section 8F)

TCEQ

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Liberty County Utilities, LLC (CN605861632) proposes to operate the Liberty County Utilities Wastewater Treatment Plant #4 (RN112200563), an activated sludge process with nitrification operated in the complete mix mode. The facility will be located at approximately 1.45 miles east of the intersection of Enloe Blvd. and Plum Grove Road (FM 1010), in Plum Grove, Liberty County, Texas 77327. This application for a new application to discharge a daily average flow of 990,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a screening facility, aeration basin, final clarifier, sludge digester, chlorine contact chamber and dechlorination chamber.

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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí AGUAS PLUVIALES

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

Liberty County Utilities, LLC (CN605861632) propone operar la Planta de Tratamiento de Aguas Residuales de Liberty County Utilities #4 (RN112200563), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en aproximadamente 1.45 milas al este de la interseccion de Bulevar Enloe y Camino Plum Grove (Camino FM 1010, en Plum Grove, Condado de Liberty, Texas 77327. Esta solicitud es para una nueva aplicación para descargar a un flujo promedio diario de 990,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (CBOD₅), solidos totalmente suspendidos (TSS), nitrógeno amoniacal (NH_c-N), y *Escherichia coli*. Los contaminantes potenciales adicionales se incluyen en el Informe Técnico Domésticas 1.0, Seccion 7 Análisis de Contaminantes de Efluente Tratado en el paquete de solicitud de permisos. Las aguas residuales domésticas. estará tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una pantalla de barras, balsa de aireación, clarificador finales, digestor de lodos, cámara de contacto de cloro y cámara de decloración.

ATTACHMENT ADMIN.05

Public Involvement Plan

(Reference Administrative Report 1.0, Page 7, Section 8G)



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
\square New Activity – modification, registration, amendment, facility, etc. (see instructions)
If neither of the above boxes are checked, a Public Involvement Plan is not necessary. Completion of the remaining sections not required.
Section 2. Secondary Screening
 ☒ Requires public notice, ☐ Considered to have significant public interest, and ☒ Located within any of the following geographical locations: Austin San Antonio
• Dallas • West Texas
Fort Worth Texas Panhandle
 Houston Along the Texas/Mexico Border
Other geographical locations should be decided on a case-by-case basis
If all of the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2.
☑ Public Involvement Plan not applicable to this application. Provide brief explanation. The area affected by this permit action is not environmentally highly sensitive and, to the best of my knowledge, not been part of any other contested permit action.
Section 3. Application Information
Type of Application (check all that apply):
Air □ Initial □ Federal □ Amendment □ Standard Permit □ Title V
Waste □ Municipal Solid Waste □ Industrial and Hazardous Waste

☐ Radioactive Materials Licensing

☐ Underground Injection Controls

Water Quality ☐ Texas Pollutant Discharge Elimination System (TPDES) ☐ Texas Land Application Permit (TLAP) ☐ State Only Concentrated Animal Feeding Operation (CAFO) ☐ Water Treatment Plant Residuals Disposal Permit ☐ Class B Biosolids Land Application Permit ☐ Domestic Septage Land Application Registration
Water Rights New Permit
□ New Appropriation of Water
□ New or existing reservoir
Amendment to an Existing Water Right
☐ Add a New Appropriation of Water
☐ Add a New or Existing Reservoir
☐ Major Amendment that could affect other water rights or the environment
Section 4. Plain Language Summary
Section 4. Flam Language Summary
Provide a brief description of planned activities.
Section 5. Community and Demographic Information
Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.
Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.
(City)
(County)

TCEQ-20960 (10-10-2022)

Please indicate which of these three is the level used for gathering the following information.
☐ City☐ County☐ Count
☐ Census Tract
(A) Property of the control of the c
(a) Percent of people over 25 years of age who at least graduated from high school
(b) Per capita income for population near the specified location
(c) Percent of minority population and percent of population by race within the specified location
(d) Percent of Linguistically Isolated Households by language within the specified location
(a) Tereth of Englishedily Isolated Households by language within the specified location
(e) Languages commonly spoken in area by percentage
(f) Community and/or Stakeholder Groups
(g) Historic public interest or involvement
Section 6. Planned Public Outreach Activities
Section 6. Planned Public Outreach Activities (a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?
(a) Is this application subject to the public participation requirements of Title 30 Texas
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?
 (a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? □ Yes □ No (b) If yes, do you intend at this time to provide public outreach other than what is required
 (a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? □ Yes □ No (b) If yes, do you intend at this time to provide public outreach other than what is required by rule? □ Yes □ No
 (a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? □ Yes □ No (b) If yes, do you intend at this time to provide public outreach other than what is required by rule?
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? ☐ Yes ☐ No (b) If yes, do you intend at this time to provide public outreach other than what is required by rule? ☐ Yes ☐ No If Yes, please describe. If you answered "yes" that this application is subject to 30 TAC Chapter 39,
 (a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? □ Yes □ No (b) If yes, do you intend at this time to provide public outreach other than what is required by rule? □ Yes □ No If Yes, please describe.
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? ☐ Yes ☐ No (b) If yes, do you intend at this time to provide public outreach other than what is required by rule? ☐ Yes ☐ No If Yes, please describe. If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? ☐ Yes ☐ No (b) If yes, do you intend at this time to provide public outreach other than what is required by rule? ☐ Yes ☐ No If Yes, please describe. If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required. (c) Will you provide notice of this application in alternative languages?
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? ☐ Yes ☐ No (b) If yes, do you intend at this time to provide public outreach other than what is required by rule? ☐ Yes ☐ No If Yes, please describe. If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required. (c) Will you provide notice of this application in alternative languages? ☐ Yes ☐ No Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? ☐ Yes ☐ No (b) If yes, do you intend at this time to provide public outreach other than what is required by rule? ☐ Yes ☐ No If yes, please describe. If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required. (c) Will you provide notice of this application in alternative languages? ☐ Yes ☐ No Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

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[] Mailed by TCFO's Office of the Chief Clark
☐ Mailed by TCEQ's Office of the Chief Clerk
☐ Other (specify)
(d) Is there an opportunity for some type of public meeting, including after notice?
□ Yes □ No
(e) If a public meeting is held, will a translator be provided if requested?
□ Yes □ No
(f) Hard copies of the application will be available at the following (check all that apply):
☐ TCEQ Regional Office
☐ TCEQ Central Office
□ Public Place (specify)
Section 7. Voluntary Submittal
For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.
Will you provide notice of this application, including notice in alternative languages?
□ Yes □ No
What types of notice will be provided?
□ Publish in alternative language newspaper
□ Posted on Commissioner's Integrated Database Website
☐ Mailed by TCEQ's Office of the Chief Clerk
□ Other (specify)

ATTACHMENT ADMIN.06 Affected Landowners Map and Table

(Reference Administrative Report 1.1, Page 12, Section 1A&B)

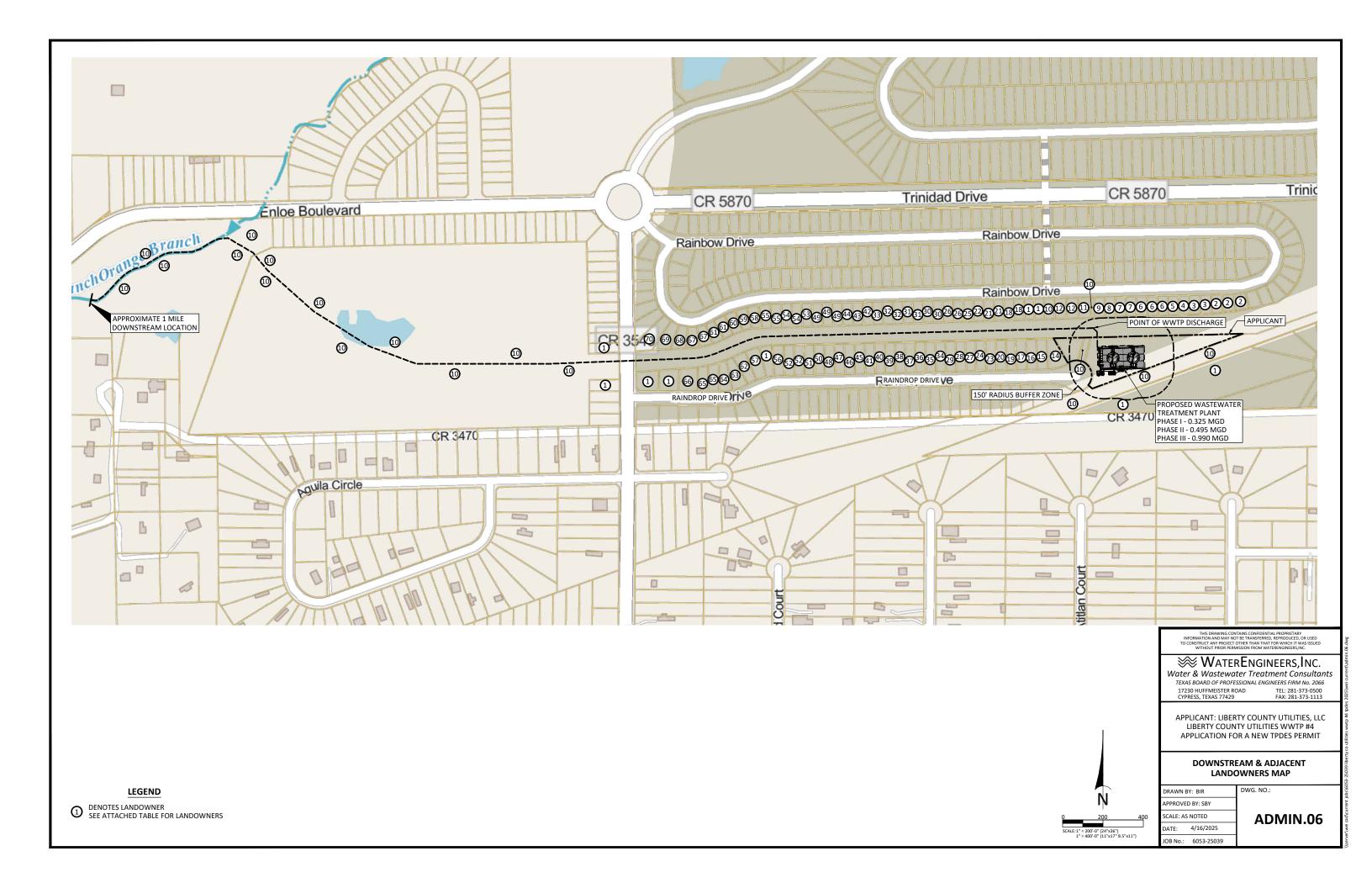


TABLE "ADMIN.06"

LIBERTY COUNTY UTILITIES, LLC **Liberty County Utilities** Wastewater Treatment Plant #4

Adjacent & Downstream Land Ownership Table Source: Liberty County Appraisal District

Tract No.	Title Owner & Address
(See Attachment "ADMIN.06" Map)	11110 0 11110 11110 11110
	COLONY RIDGE DEVELOPMENT LLC
1	P O BOX 279
	FRESNO TX 77545
	ELUID REYES
2	39 LAKEVIEW STREET
	CLEVELAND TX 77327
	BERLY ESTRADA
3	8800 W US 290 APT 1237
	AUSTIN TX 78736
	DERIC GUZMAN
4	681 UNION STREET APT 1
	NEW BEDFORD MA 02740
	FRITTO JOURDAIN
5	6111 GLENMONT DRIVE APT 83
	HOUSTON TX 77081
	CINTHIA CRUZ
6	10580 HAMMERLY APT 2413
	HOUSTON TX 77043
	LEANDRO RUIZ
7	635 SUMMER STREET APT 1N
	NEW BEDORD MA 02746
	JOSE ESTRADA & MARIA AGUIRRE
8	2724 CLEVELAND AVENUE
	NEW ORLEANS LA 70119
	RUBEN RUIZ
9	7715 ½ KELLER STREET
	HOUSTON TX 77012
	LIBERTY COUNTY MUNICIPAL
10	MANAGEMENT DISTRICT #1
	9 GREENWAY PLAZA SUITE 1000
	HOUSTON TX 77046
	REBECCA BLANCO
11	1234 CR 3550
	CLEVELAND TX 77327
	ZITALI MONTANEZ
12	356 CR 5010
	CLEVELAND TX 77327

13	NOT USED
	WALTER PEREZ & MARIBEL
14	GUERRERO
	1909 JEAN STREET
	HOUSTON TX 77023
	ALEJANDRO CAMPANA
15	2611 COLONY HAVEN CIRCLE
	SPRING TX 77373
	JEIMY SALAZAR
16	2611 COLONY HAVEN CIRCLE
	SPRING TX 77373
	YONAEL AMADOR
17	8312 N IH-35 APT 156
1,	AUSTIN TX 78753
	ZOILA REYES
18	35 BULLARD STREET APT 3
10	NEW BEDFORD MA 02746
	VICTOR CARDENAS & YLIANA MAIZO
19	15155 KATY FREEWAY APT 217
19	HOUSTON TX 77094
	JOSE CANTU
20	1210 SOL STREET
20	HOUSTON TX 77029
	DEYNER RUIZ
21	35 BULLARD STREET APT 3
21	NEW BEDFORD MA 02746
	MILTON MARTINEZ
22	
22	905 CYPRESS STATION DRIVE APT 03
	HOUSTON TX 77090
22	MARIO DOMINGUEZ-LUNA 4100 E 50 TH STREET APT 304
23	
	ODESSA TX 79762
24	AMAURY JORRIN
24	7630 BELLERIVE DRIVE APT 13
	HOUSTON TX 77036
	MARTHA DIAZ
25	172 ROAD 5122
	CLEVELAND TX 77327
26	LINDA ALCIUS
	6111 GLENMONT DRIVE APT 83
	HOUSTON TX 77081
	SAUL GONZALEZ-VALDIOSERA
27	522 SOUTH DURBIN STREET UNIT B
	CASPER WY 82601
	EDGAR VAZQUEZ
28	13050 SOUTH BLESSEN ROAD
	AMARILLO TX 79119

a	
	MARCELINO MARTINEZ &
29	SANDRA HERNANDEZ
	29902 BROWNSVILLE STREET
	MAGNOLIA TX 77354
	ERICK URBINA
30	1543 MICHIGAN AVENUE APT 105
	MIAMI BEACH FL 33139
	JOSE RIVAS
31	1515 BODART DRIVE
	HOUSTON TX 77090
	EBLER SANCHEZ
32	4322 SPRING VALLEY ROAD
32	HOUSTON TX 77041
	ROLANDO JIMENES
33	5500 5500 ANTOINE APT 25
33	
	HOUSTON TX 77091
	TATIANA ARRYAVE
34	8900 RESEARCH PARK DR APT 1411
	THE WOODLANDS TX 77381
_	LAZARO HERNANDEZ-AYALA &
35	MARIA HERNANDEZ
	2760 CR 5018
	CLEVELAND TX 77327
	BERTIN SOSA & GEMINA YANEZ
36	1055 CR 7000
	CLEVELAND TX 77327
	JORGE ANGEL
37	4926 PARADISE LANE
	HOUSTON TX 77048
	SALVADOR NUNEZ
38	2188 CR 5030
	CLEVELAND TX 77327
	ALMAY NUNEZ
39	2188 CR 5030
	CLEVELAND TX 77327
	GONZALO PEREZ
40	2188 CR 5030
10	CLEVELAND TX 77327
	ALBA GARAY
41	8127 BEN AVENUE
71	NORTH HOLLYWOOD CA 91605
42	JUAN LOPEZ
42	112 CR 5221
	CLEVELAND TX 77327
10	MARIA ARMENTA & JUAN NAVARRO
43	2406 NARROW VALLEY DRIVE
	CEDAR PARK TX 78613
	SAMUEL SILVA
44	10335 LONGMONT DRIVE
	HOUSTON TX 77042

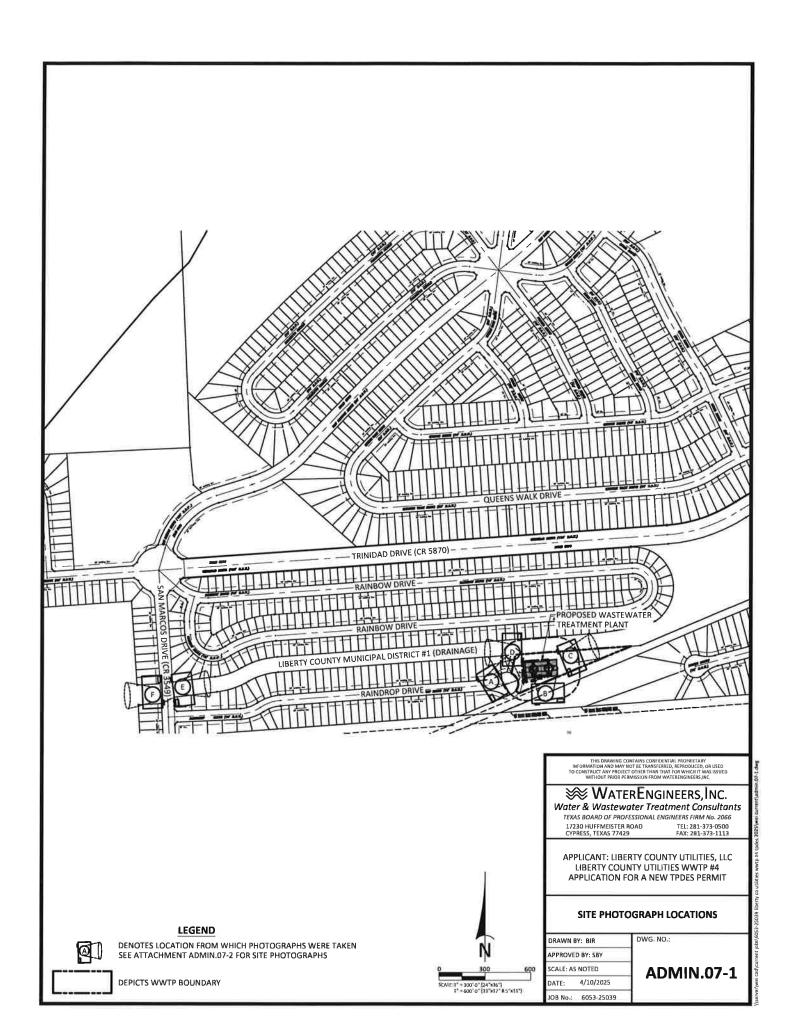
	GLENDA PAZ-GARAY
45	455 CR 5011
	CLEVELAND TX 77327
	CECILIA PAZ-GARAY
46	455 CR 5011
	CLEVELAND TX 77327
	JOSE IRACHETA
47	4047 SALINA LANE
	HUMBLE TX 77396
	EDNA FLORES
48	7302 ALABONSON ROAD APT 1206
	HOUSTON TX 77088
	PABLO CUBILLO
49	4900 WOODWAY DRIVE SUITE 1110
17	HOUSTON TX 77056
	MARILU MARTINEZ
50	2611 COLONY HAVEN CIRCLE
30	SPRING TX 77373
£1	MAIKEL PUPO
51	2611 COLONY HAVEN CIRCLE
	SPRING TX 77373
50	ERIBELLA GONZALEZ
52	5838 LOMA LINDA
7	HOUSTON TX 77085
	LIUDIS TAMAYO
53	945 CR 51023
	CLEVELAND TX 77327
	JOSUE JAIME
54	333 AIRTEX DRIVE APT 8206
	HOUSTON TX 77090
	FRANCISCO CASTILLO
55	11111 SAGEVIEW DRIVE
	HOUSTON TX 77089
	VICTOR GRIJALVA
56	1922 SANDY HILL CIRCLE
	CYPRESS TX 77433
	JUSTINO GRACIA & TERRESA MAZANO
57	2604 VANCE STREET
	HOUSTON TX 77093
	DENIS GUZMAN
58	681 UNION STREET APT 1
30	NEW BEDFORD MA 02740
	RUBEN BARRON
59	9806 SHADOW VILLA LANE
3)	HOUSTON TX 77044
CO	MARIA ESTRADA
60	3931 KNOTTYNOLD LANE
	HOUSTON TX 77053
	MIGUEL BARRIENTOS
61	15323 MERRITT LANE

	HOUSTON TX 77060
	JORGE CUELLAR
62	14622 MONTEREY CYPRESS DRIVE
	HOUSTON TX 77068
	NEGASH DESTA
63	3018 SHERBROOKE CANYON LANE
	HOUSTON TX 77047
	SETEGN GELETE
64	13127 WOODVINE TRAIL
	HOUSTON TX 77072
	MIRIAM GONZALEZ & CARLOS
65	CASTRO
	9502 HUNTINGTON HILL DRIVE
	HOUSTON TX 77099
	JOSE ROQUE & LETICIA SANCHEZ
66	9534 RUMBLING WOOD LANE
	HOUSTON TX 77086
	JESUS GARCIA & WILBERLY RAMIREZ
67	10118 FALLMONT CIRCLE
	HOUSTON TX 77086
	WILLIAMS GARCIA
68	1719 BONNYTON LANE
	HOUSTON TX 77014
	ELSA ROMERO & HENRY ESCOTO
69	9502 HUNTINGTON HILL DRIVE
	HOUSTON TX 77099
	CORNELIO ARCE & LAURA TAMAYO
70	20711 COOK ROAD
	TOMBALL TX 77377

ATTACHMENT ADMIN.07

Photographs

(Reference Administrative Report 1.1, Page 13, Section 2)



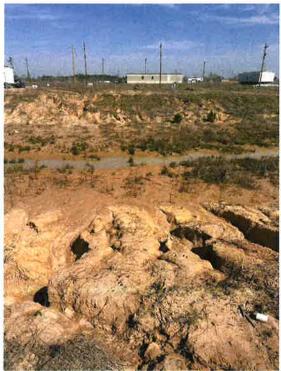
PROPOSED WASTEWATER TREATMENT PLANT SITE





POINT OF DISCHARGE





THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY
INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED
TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUE
WITHOUT PRIOR PERMISSION FROM WATER NGINCERS, INC.

WATER ENGINEERS, INC.

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

APPLICANT: LIBERTY COUNTY UTILITIES, LLC LIBERTY COUNTY UTILITIES WWTP #4 APPLICATION FOR A NEW TPDES PERMIT

SITE PHOTOGRAPHS

DWG. NO.:

DRAWN BY: BIR
APPROVED BY: SBY

THE ASSESSED

DATE: 4/10/2025 JOB No.: 6053-25039 **ADMIN.07-2**

UPSTREAM OF POINT OF DISCHARGE





DOWNSTREAM OF POINT OF DISCHARGE





THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUITED.

WATER ENGINEERS, INC.

Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066

TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD TEL: 281-373-0500
CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: LIBERTY COUNTY UTILITIES, LLC LIBERTY COUNTY UTILITIES WWTP #4 APPLICATION FOR A NEW TPDES PERMIT

DWG. NO.:

DRAWN BY: BIR
APPROVED BY: SBY

SCALE: AS NOTED

DATE: 4/10/2025

6053-25039

JOB Na:

ADMIN.07-3

** SEE ADMIN.07-1 FOR LOCATION IN WHICH PHOTOGRAPHS WERE TAKEN

wei sadicurrent jobs/56/53-25039 liberty co utalices wwcp #4 tpde

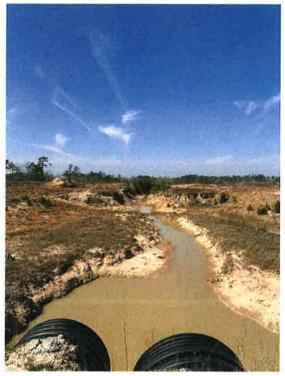
DOWNSTREAM OF POINT OF DISCHARGE AT COUNTY ROAD 3549 FACING EAST





DOWNSTREAM OF POINT OF DISCHARGE AT COUNTY ROAD 3549 FACING WEST





THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY
INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED
TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED
INTO CONTROLLED REPAIRS FOR THE PROPRIET HERE FOR

WATER ENGINEERS, INC.

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

APPLICANT: LIBERTY COUNTY UTILITIES, LLC LIBERTY COUNTY UTILITIES WWTP #4 APPLICATION FOR A NEW TPDES PERMIT

SITE PHOTOGRAPHS

DWG. NO.:

DRAWN BY: 8IR APPROVED BY: SBY

SCALE: AS NOTED

DATE: 4/10/2025

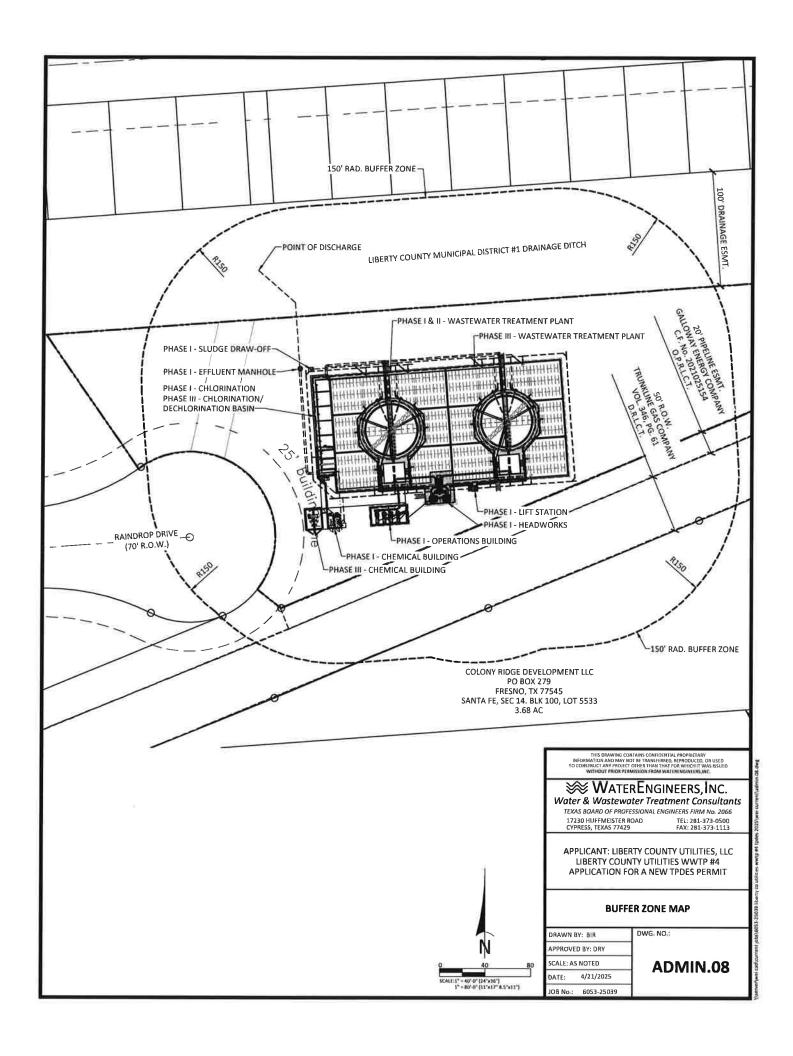
JOB No.: 6053-25039

ADMIN.07-4

ATTACHMENT ADMIN.08

Buffer Zone Map

(Reference Administrative Report 1.1, Page 13, Section 3A)



ATTACHMENT ADMIN.09 Supplemental Permit Information Form and USGS Map

(Reference Administrative Report Page 14)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

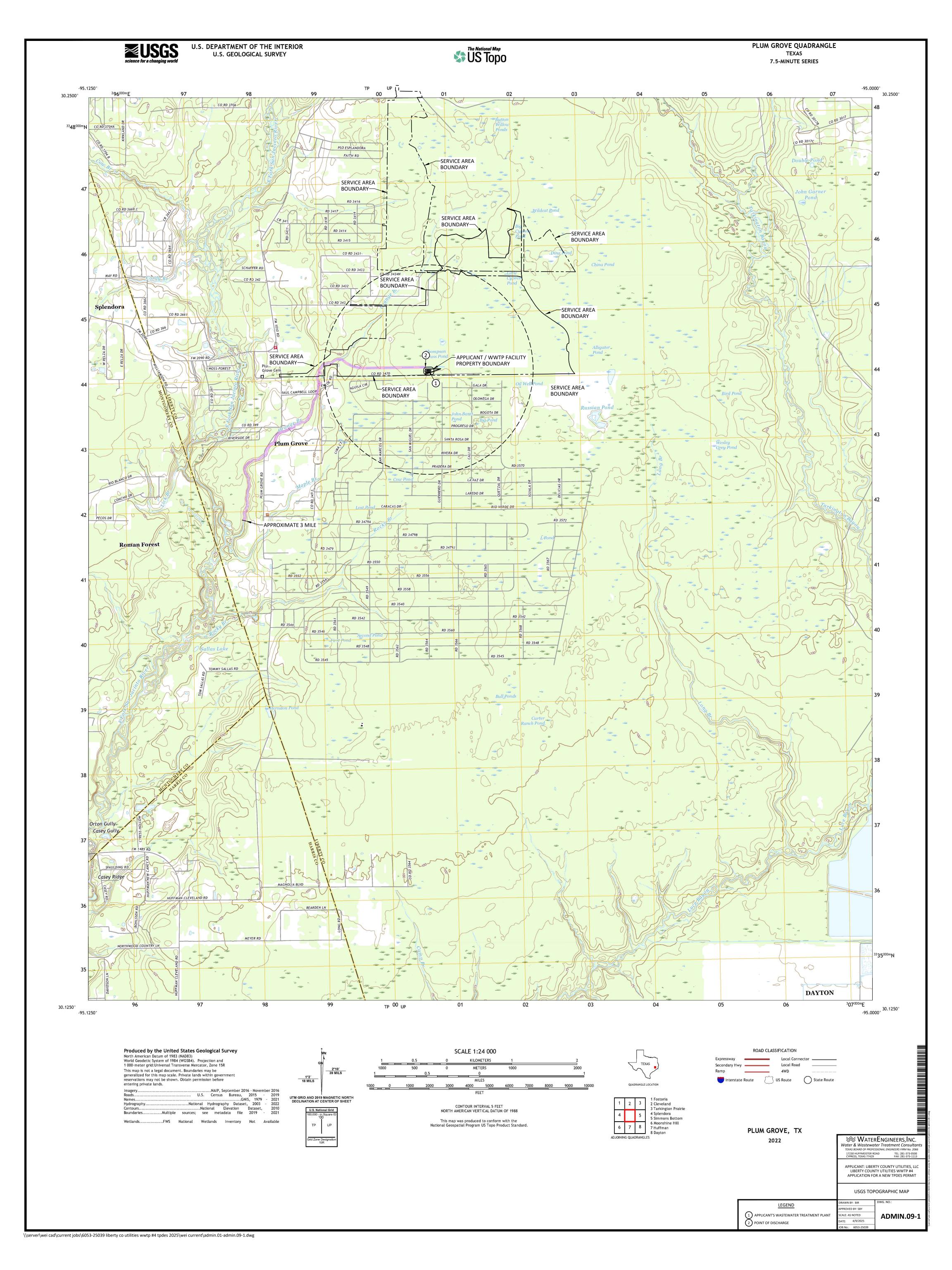
TCEQ USE ONLY:
Application type:RenewalMajor AmendmentMinor AmendmentNew
County: Segment Number:
Admin Complete Date:
Agency Receiving SPIF:
Texas Historical Commission U.S. Fish and Wildlife
Texas Parks and Wildlife Department U.S. Army Corps of Engineers
This form applies to TPDES permit applications only. (Instructions, Page 53)
Complete this form as a separate document. TCEQ will mail a copy to each agency as required our agreement with EPA. If any of the items are not completely addressed or further informatio is needed, we will contact you to provide the information before issuing the permit. Address each item completely.
Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this formay be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.
The following applies to all applications:
1. Permittee: <u>Liberty County Utilities, LLC</u>
Permit No. WQ00 <u>New</u> EPA ID No. TX <u>New</u>
Address of the project (or a location description that includes street/highway, city/vicinity, and county): Approximately 1.45 miles east of the intersection of Enloe Blvd. and Plum Grove Road (FM
1010 Road, Plum Grove, Liberty County 77327

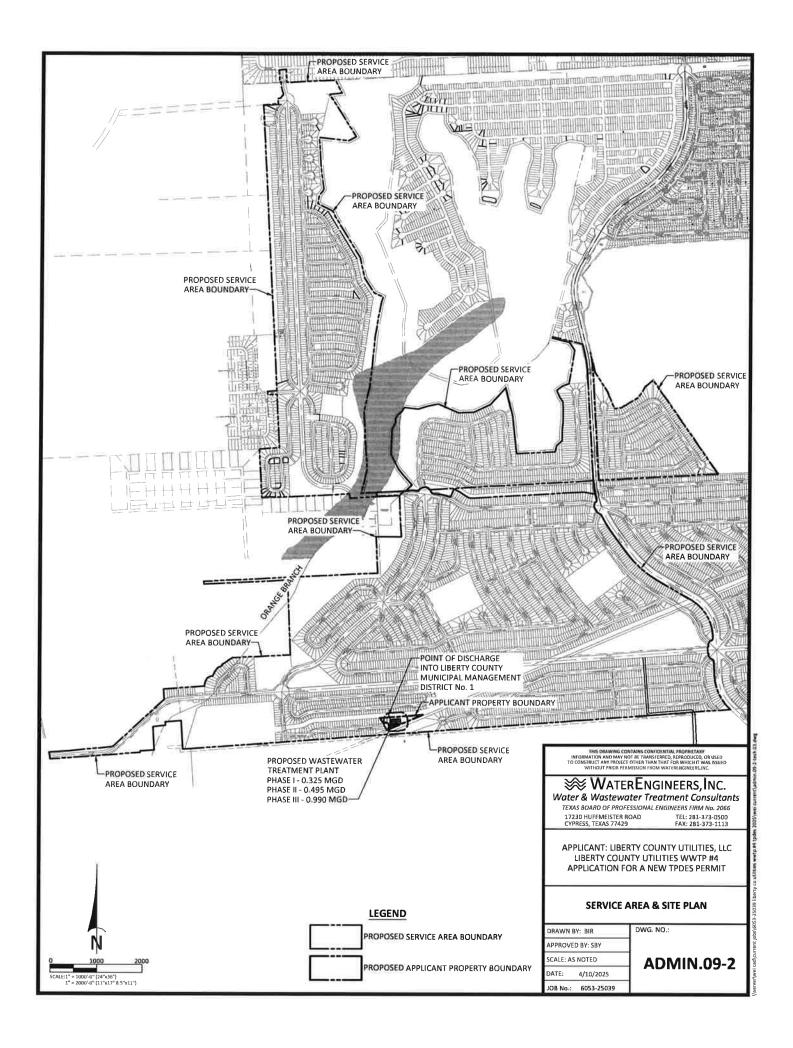
	Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.
	Prefix (Mr., Ms., Miss): Ms.
	First and Last Name: Shelley Young
	Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u>
	Title: Engineer
	Mailing Address: 17230 Huffmeister Road, Suite A
	City, State, Zip Code: Cypress, TX 77429
	Phone No.: <u>281-373-0500</u> Ext.: Click here to enter text. Fax No.: <u>281-373-1113</u>
	E-mail Address: syoung@waterengineers.com
2.	List the county in which the facility is located: <u>Liberty</u>
3.	If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.
	N/A
4.	Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of
	discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
	the classified segment number.
	From the plant site to Liberty County Municipal Management District #1 ditch; thence to Orange Branch; thence to Maple Branch; thence to East Fork San Jacinto River in Segment No. 1003 of the San Jacinto River Basin.
	110. 1003 of the ball Jacinto River Bushi.
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
	U 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

4.

5.

	☐ Disturbance of vegetation or wetlands
1.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
	The plant site will encompass approximately 3.0 acres. Excavation is not expected to be more than 10-12'. Other disturbances will include clearing and grubbing of the site.
2.	
	Land is currently vacant.
	HE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR MENDMENTS TO TPDES PERMITS
3.	List construction dates of all buildings and structures on the property:
	See No. 2 above
4.	Provide a brief history of the property, and name of the architect/builder, if known.
	See No. 2 above





ATTACHMENT ADMIN.10

Request for Permission to Discharge Letter

(Reference Administrative Report 1.0, Page 9, Section 10C)

WATER & WASTEWATER TREATMENT CONSULTANTS 17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643

TEL: 281-373-0500 FAX: 281-373-1113

April 10, 2025

Mr. William Harris III, President Liberty County Municipal Management District #1 c/o Coats Rose, PC 9 Greenway Plaza, Suite 1000 Houston, Texas 77046

Re: Liberty County Utilities, LLC Liberty County Utilities WWTP #4

Dear Mr. Harris:

Please accept this letter as a formal request for permission to discharge into the Liberty County Municipal Management District #1 Drainage Ditch which runs between County Road 5914-12 and County Road 5914-10. The discharge will be from the Liberty County Utilities WWTP #4 (to be located in Section 14, Block 99, Reserve J5) owned by Liberty County Utilities, LLC. Liberty County Utilities, LLC is serving part of the development known as the Santa Fe residential subdivision in northwest Liberty County.

Liberty County Utilities, LLC is applying to the Texas Commission on Environmental Quality for a TPDES permit to discharge 0.990 mgd of treated wastewater effluent with proposed effluent quality parameters of 10 mg/l CBOD5, 15 mg/l TSS, 3 mg/l NH3-N and 4 mg/l DO. The WWTP will be located approximately 1.45 miles east the intersection of Enloe Blvd. and Plum Grove Road (FM 1010) in Liberty County. The proposed discharge will be located at latitude 30.212725 and longitude -95.071633. (Please see attached map)

Should you have any questions or require any additional information, please feel free to call me.

Sincerely, WATERENGINEERS, INC.

Shelley Young

Shelley Young, P.E.

Encl. as noted

ATTACHMENT TECH.01 Design & Loading Criteria Table And Design Features for Reliability

(Reference Technical Report Page 2, Question 2b And Page 22, Question 4)



17230 HUFFMEISTER RD, SUITE A

CYPRESS, TEXAS 77429

TEL: 281-373-0500 FAX: 281-373-1113

TECH.01-01

PROCESS DESIGN & LOADING CALCULATIONS **LIBERTY COUNTY UTILITIES WWTP No. 4** PHASE I - 325,000 GPD ADF - CAPABLE of 4Q

INFLUENT CONDIT	TIONS	\$	S
Average Daily Flow	325,000	gpd	
Ratio Average / Peak Flow	4	Q	
Peak 2-Hour Flow	1,300,000	gpd	
Peak 2-Hour Flow	903	gpm	
BOD Concentration	300	mg/l	
BOD Loading	813	lb/day	

SELECTOR	BASIN	
Tank Wall Height	12	ft
Tank SWD	10,5	ft
Tank Freeboard	1,5	ft
QTY of Tanks	1	
Surface Area of Each Tank	598	sq. ft.
Total Surface Area	598	sq. ft.
Total Volume	6,279	cu. ft.
Total Volume	46,967	gallons
Detention	3,5	hours
BOD Loading	7.72	cu ft. / lbs BOD
Air Supply Rate (20 scfm/1000 cu ft)	126	scfm
% of Average Daily Flow in Selector Basin	14%	

We want to the second		
AERATION BASIN (Activ		
Tank Wall Height	12	ft
Tank SWD	10.5	ft
Tank Freeboard	1.5	ft
QTY of Tank (A)	2	
Surface Area of Each Tank (A)	1200	sq. ft
Total Aeration Surface Area (A)	2,400	sq. ft.
Total Aeration Volume (A)	25,200	cu. ft.
Total Aeration Volume (A)	188,496	gallons
QTY of Tank (B)	2	
Surface Area of Each Tank (B)	824	sq. ft.
Total Aeration Surface Area (B)	1,648	sq. ft.
Total Aeration Volume (B)	17,304	cu. ft.
Total Aeration Volume (B)	129,434	gallons
Total Aeration Volume (A+B)	4,048	sq. ft.
Total Aeration Volume (A+B)	42,504	cu. ft.
Total Aeration Volume (A+B)	317,930	gallons
BOD Loading	19,13	lbs / 1000 cu, ft
Detention Time	23.5	hours
O2 Req'd @ 2,2 # O2/lb BOD	1,789	lbs / day
Diffuser CW Efficiency @ Field Conditions	1_70%	% / ft sub.
Diffuser Field Submergence	9.75	ft
Diffuser CW Transfer Eff.	16.6%	
Correction Factor (Fine Bubble)	0,45	
Diffuser Field Transfer Eff. (WOTE)	7.5%	
Process Required Air Flow Rate (RAF)	966	scfm
Mixing Air @ 20 scfm/1000 cu ft	850	scfm
Chosen Air Supply Rate	966	scfm
Temperature Correction Factor (30F)	1.27	
Temperature Corrected Air Flow Rate	1,224	scfm
No. diffusers	238	
Air Flow per Diffuser	5	scfm
Air Supply	29	scfm / 1000 cu
RAS Airlift Air, scfm	82	scfm
WAS Airlift Air, scfm	20	scfm

CLARIFIER		
Clarifier Diameter	50	ft
Tank Wall Height	12	ft
SWD	10.27	ft
Tank Freeboard	1.73	ft
QTY of Tanks	1	
Surface Area of Each Tank	1,963.5	sq. ft
Total Surface Area	1,963.5	sq. ft.
Total Volume	20,165	cu, ft
Total Volume	150,835	gallons
Avg. SOR	166	gpd / sq. ft.
Peak SOR	662	gpd / sq. ft.
Avg. Detention	11,1	hours
Peak Detention	2,78	hours
Max Qr @ 400 gpd/sf	545	gpm
Max Qr @ 400 gpd/sf	785,398	gpd
Max Qp + Qr	########	gpd

CHLORINE CONTACT BASIN			
Tank Wall Height	12	ft	
Basin SWD	8.1	ft	
Tank Freeboard	3.9	ft	
QTY of Tanks	1		
Surface Area of Each Tank	938	sq. ft.	
Total Surface Area	938	sq. ft.	
Total Volume	7,598	cu ft	
Total Volume	56,832	gallons	
Detention @ Qp	63.0	minutes	
Air Supply Rate (20 scfm/1000 cu ft)	152	scfm	

DECHLORINATION BASIN-NOT USED		
Tank Wall Height	0	ft
Basin SWD	0	ft
Tank Freeboard	0	ft
QTY of Tanks	0	
Surface Area of Each Tank		sq. fl.
Total Surface Area	0	sq. ft.
Total Volume	0	cu. ft.
Total Volume	0	gallons
Detention @ Qp	0,0	minutes
Air Supply Rate (20 scfm/1000 cu ft)	0	scfm

AEROBIC DIGESTER	AEROBIC DIGESTER BASIN		
Tank Wall Height	12	ft	
Tank SWD	10.5	ft	
Tank Freeboard	1.5	ft	
QTY of Tanks	2		
Surface Area of Each Tank	1,515	sq. ft.	
Total Surface Area	3,030	sq. ft.	
Total Volume	31,815	cu ft.	
Total Volume	237,976	gallons	
BOD Loading	39_13	cu_ft_/lb_BOI	
Air Supply Rate (25 scfm/1000 cu ft)	795	scfm	

AIR/BLOWERS	(c	
Selector Basin Mixing Air Supply	126	scfm
Aeration Basin Air Supply	1,224	scfm
RAS Airlift Air Supply	82	scfm
WAS Airlift Air Supply	20	scfm
Chlorine Contact Basin Air Supply	152	scfm
Dechlorination Basin	0	scfm
Aerobic Digester Basin Air Supply	795	scfm
Total Required Air Supply	2,399	scfm
No. of Blowers	4	
Capacity of Each Blower w/ 1 Out of Service	800	scfm
Chosen Blower Capacity (Each)	2,000	scfm
Blower Op Pressure	5.47	psi



Texas Board of Professional Engineers Firm No. 2066

TEL: 281-373-0500 FAX: 281-373-1113 17230 HUFFMEISTER RD., SUITE A CYPRESS, TEXAS 77429

TECH.01-02

PROCESS DESIGN & LOADING CALCULATIONS LIBERTY COUNTY UTILITIES WWTP No. 4 PHASE II - 495,000 GPD ADF - CAPABLE of 4Q

INFLUENT CONDITIONS			
Average Daily Flow	495,000	gpd	
Ratio Average / Peak Flow	4	Q	
Peak 2-Hour Flow	1,980,000	gpd	
Peak 2-Hour Flow	1,375	gpm	
BOD Concentration	300	mg/l	
BOD Loading	1,238	lb/day	

SELECTOR BASIN		
Tank Wall Height	12	ft
Tank SWD	10.5	ft
Tank Freeboard	1,5	ft
QTY of Tanks	1	
Surface Area of Each Tank	598	sq. ft.
Total Surface Area	598	sq. ft.
Total Volume	6,279	cu. ft.
Total Volume	46,967	gallons
Detention	2,3	hours
BOD Loading	5.07	cu ft. / lbs BOD.
Air Supply Rate (20 scfm/1000 cu ft)	126	scfm
% of Average Daily Flow in Selector Basin	9%	

AERATION BASIN (Active	ted Sludge)	Service of the servic
Tank Wall Height	12	ft
Tank SWD	10,5	ft
Tank Freeboard	1.5	ft
QTY of Tank (A)	2	
Surface Area of Each Tank (A)	1200	sq. ft.
Total Aeration Surface Area (A)	2,400	sq. ft.
Total Aeration Volume (A)	25,200	cu ft
Total Aeration Volume (A)	188,496	gallons
QTY of Tank (B)	2	
Surface Area of Each Tank (B)	824	sq. ft.
Total Aeration Surface Area (B)	1,648	sq. ft.
Total Aeration Volume (B)	17,304	cu, ft.
Total Aeration Volume (B)	129,434	gallons
Total Aeration Volume (A+B)	4,048	sq. ft.
Total Aeration Volume (A+B)	42,504	cu. ft.
Total Aeration Volume (A+B)	317,930	gallons
BOD Loading	29.14	lbs / 1000 cu, 1
Detention Time	15.4	hours
O2 Req'd @ 2,2 # O2/lb BOD	2,725	lbs / day
Diffuser CW Efficiency @ Field Conditions	1.70%	% / ft sub.
Diffuser Field Submergence	9.75	ft
Diffuser CW Transfer Eff.	16.6%	
Correction Factor (Fine Bubble)	0.45	
Diffuser Field Transfer Eff. (WOTE)	7.5%	
Process Required Air Flow Rate (RAF)	1,471	scfm
Mixing Air @ 20 scfm/1000 cu ft	850	scfm
Chosen Air Supply Rate	1,471	scfm
Temperature Correction Factor (30F)	1.27	
Temperature Corrected Air Flow Rate	1,864	scfm
No. diffusers	238	
Air Flow per Diffuser	8	scfm
Air Supply	44	scfm / 1000 cu
RAS Airlift Air, scfm	82	scfm
WAS Airlift Air, scfm	20	scfm

CLARIFIER	SELL	
Clarifier Diameter	50	ft
Tank Wall Height	12	ft
SWD	10,27	ft
Tank Freeboard	1.73	ft
QTY of Tanks	1	
Surface Area of Each Tank	1,963.5	sq.ft
Total Surface Area	1,963,5	sq. ft.
Total Volume	20,165	cu, ft
Total Volume	150,835	gallons
Avg. SOR	252	gpd / sq. ft.
Peak SOR	1,008	gpd / sq. ft.
Avg. Detention	7.3	hours
Peak Detention	1.83	hours
Max Qr @ 400 gpd/sf	545	gpm
Max Qr @ 400 gpd/sf	785,398	gpd
Max Qp + Qr	#######	gpd

CHLORINE CONTACT BASIN		
Tank Wall Height	12	ft
Basin SWD	8.1	ft
Tank Freeboard	3,9	ft
QTY of Tanks	1	
Surface Area of Each Tank	938	sq. ft.
Total Surface Area	938	sq. ft.
Total Volume	7,598	cu, ft,
Total Volume	56,832	gallons
Detention @ Qp	41,3	minutes
Air Supply Rate (20 scfm/1000 cu ft)	152	scfm

DECHLORINATION BASIN-NOT USED		
Tank Wall Height	0	ft
Basin SWD	0	ft
Tank Freeboard	0	ft
QTY of Tanks	0	
Surface Area of Each Tank		sq. ft.
Total Surface Area	0	sq. ft.
Total Volume	0	cu. ft.
Total Volume	0	gallons
Detention @ Qp	0.0	minutes
Air Supply Rate (20 scfm/1000 cu ft)	0	scfm

AEROBIC DIGESTER	BASIN	O UNION THE
Tank Wall Height	12	ft
Tank SWD	10.5	ft
Tank Freeboard	1.5	ft
QTY of Tanks	2	
Surface Area of Each Tank	1,515	sq. ft.
Total Surface Area	3,030	sq. ft,
Total Volume	31,815	cu ft.
Total Volume	237,976	gallons
BOD Loading	25.69	cu. ft. / lb BOD
Air Supply Rate (25 scfm/1000 cu ft)	795	scfm

AIR BLOWERS	A LE	2
Selector Basin Mixing Air Supply	126	scfm
Aeration Basin Air Supply	1,864	scfm
RAS Airlift Air Supply	82	scfm
WAS Airlift Air Supply	20	scfm
Chlorine Contact Basin Air Supply	152	scfm
Dechlorination Basin	0	scfm
Aerobic Digester Basin Air Supply	795	scfm
Total Required Air Supply	3,039	scfm
No. of Blowers	4	
Capacity of Each Blower w/ 1 Out of Service	1,013	scfm
Chosen Blower Capacity (Each)	2,000	scfm
Blower Op Pressure	5.47	psi



TECH.01-03

PROCESS DESIGN & LOADING CALCULATIONS **LIBERTY COUNTY UTILITIES WWTP No. 4** FINAL PHASE - 990,000 GPD ADF - CAPABLE of 4Q

INFLUENT CONDITIONS		
Average Daily Flow	990,000	gpd
Ratio Average / Peak Flow	4	Q
Peak 2-Hour Flow	3,960,000	gpd
Peak 2-Hour Flow	2,750	gpm
BOD Concentration	300	mg/l
BOD Loading	2,477	lb/day

SELECTOR BASIN		7.6.11
Tank Wall Height	12	ft
Tank SWD	10.5	ft
Tank Freeboard	1,5	ft
QTY of Tanks	2	
Surface Area of Each Tank	598	sq. ft.
Total Surface Area	1,196	sq. ft.
Total Volume	12,558	cu. ft.
Total Volume	93,934	gallons
Detention	2,3	hours
BOD Loading	5.07	cu ft. / lbs BOD.
Air Supply Rate (20 scfm/1000 cu ft)	251	scfm
% of Average Daily Flow in Selector Basin	9%	

AERATION BASIN (Active	ited Sludge)	- ALCOHOL
Tank Wall Height	12	ft
Tank SWD	10.5	ft
Tank Freeboard	1.5	ft
QTY of Tank (A)	4	
Surface Area of Each Tank (A)	1200	sq. ft.
Total Aeration Surface Area (A)	4,800	sq. ft.
Total Aeration Volume (A)	50,400	cu, ft,
Total Aeration Volume (A)	376,992	gallons
QTY of Tank (B)	4	
Surface Area of Each Tank (B)	824	sq. ft.
Total Aeration Surface Area (B)	3,296	sq. ft.
Total Aeration Volume (B)	34,608	cu. ft.
Total Aeration Volume (B)	258,868	gallons
Total Aeration Volume (A+B)	8,096	sq. ft.
Total Aeration Volume (A+B)	85,008	cu. ft.
Total Aeration Volume (A+B)	635,860	gallons
BOD Loading	29.14	lbs / 1000 cu. f
Detention Time	15.4	hours
O2 Req'd @ 2.2 # O2/lb BOD	5,449	lbs / day
Diffuser CW Efficiency @ Field Conditions	1.70%	% / ft sub
Diffuser Field Submergence	9.75	ft
Diffuser CW Transfer Eff.	16.6%	
Correction Factor (Fine Bubble)	0.45	
Diffuser Field Transfer Eff. (WOTE)	7.5%	
Process Required Air Flow Rate (RAF)	2,941	scfm
Mixing Air @ 20 scfm/1000 cu ft	1,700	scfm
Chosen Air Supply Rate	2,941	scfm
Temperature Correction Factor (30F)	1.27	
Temperature Corrected Air Flow Rate	3,728	scfm
No. diffusers	238	
Air Flow per Diffuser	16	scfm
Air Supply	44	scfm / 1000 cu
RAS Airlift Air, scfm	82	scfm
WAS Airlift Air, scfm	20	scfm

CLARIFIER		. »
Clarifier Diameter	50	ft
Tank Wall Height	12	ft
SWD	10.27	ft
Tank Freeboard	1.73	ft
QTY of Tanks	2	
Surface Area of Each Tank	1,963,5	sq. ft.
Total Surface Area	3,927.0	sq. ft.
Total Volume	40,330	cu ft.
Total Volume	301,670	gallons
Avg SOR	504	gpd / sq. ft
Peak SOR	1,008	gpd / sq. ft.
Avg. Detention	7.3	hours
Peak Detention	1.83	hours
Max Qr @ 400 gpd/sf	545	gpm
Max Qr @ 400 gpd/sf	785,398	gpd
Max Qp + Qr	******	gpd

CHLORINE CONTACT BASIN		
Tank Wall Height	12	fl
Basin SWD	8.1	ft
Tank Freeboard	3.9	ft
QTY of Tanks	1	
Surface Area of Each Tank	938	sq. ft.
Total Surface Area	938	sq. ft.
Total Volume	7,598	cu ft
Total Volume	56,832	gallons
Detention @ Qp	20.7	minutes
Air Supply Rate (20 scfm/1000 cu ft)	152	scfm

DECHLORINATION BASIN		
Tank Wall Height	12	ft
Basin SWD	6.49	ft
Tank Freeboard	5.51	ft
QTY of Tanks	1	
Surface Area of Each Tank	112	sq. ft.
Total Surface Area	112	sq ft
Total Volume	727	cu ft
Total Volume	5,437	gallons
Detention @ Qp	2.0	minutes
Air Supply Rate (20 scfm/1000 cu ft)	15	scfm

AEROBIC DIGESTER	BASIN	
Tank Wall Height	12	ft
Tank SWD	10.5	ft
Tank Freeboard	1,5	ft
QTY of Tanks	4	
Surface Area of Each Tank	1,515	sq. ft
Total Surface Area	6,060	sq. ft.
Total Volume	63,630	cu ft
Total Volume	475,952	gallons
BOD Loading	25,69	cu. ft. / lb BOI
Air Supply Rate (25 scfm/1000 cu ft)	1,591	scfm

AIR BLOWERS		
Selector Basin Mixing Air Supply	251	scfm
Aeration Basin Air Supply	3,728	scfm
RAS Airlift Air Supply	82	scfm
WAS Airlift Air Supply	20	scfm
Chlorine Contact Basin Air Supply	152	scfm
Dechlorination Basin	15	scfm
Aerobic Digester Basin Air Supply	1,591	scfm
Total Required Air Supply	5,839	scfm
No. of Blowers	4	
Capacity of Each Blower w/ 1 Out of Service	1,946	scfm
Chosen Blower Capacity (Each)	2,000	scfm
Blower Op Pressure	5.47	psi

DESIGN FEATURES FOR RELIABILITY

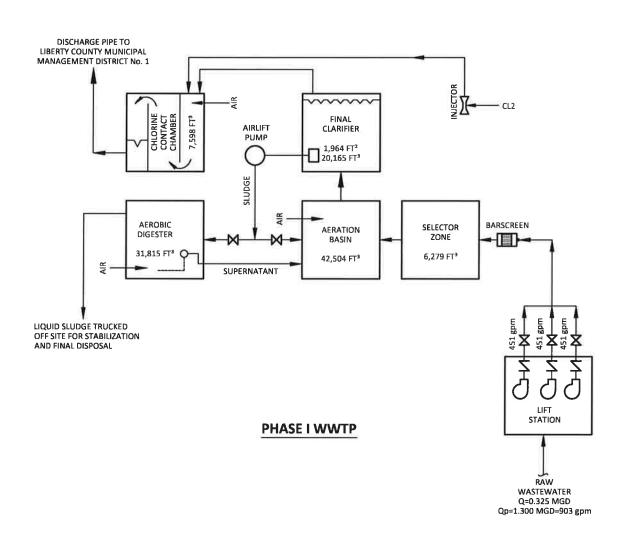
The Liberty County Utilities WWTP #4 facilities will be designed to provide a high degree of mechanical reliability consistent with TCEQ Design Criteria. The following describe design features that will be incorporated at the facilities to prevent bypassing or overflows of untreated wastewater:

- A. The plant will have an equalization basin at the beginning so that high flows will be evened out over longer time periods. No infiltration/inflow is anticipated since the collection system will be new and not subject to the effects of age and deterioration at this time.
- B. The electrical service that will serve the Liberty County Utilities WWTP #4 is reliable with most outages lasting less than 2-4 hours. However, Liberty County Utilities, LLC plans to purchase a generator to operate necessary plant components during extended outages.
- C. All mechanical units, such as influent pumps, blowers and chemical feed pumps will be installed with spare units in the event a piece of equipment is out of service for repairs.
- D. Plant units will be maintained per TCEQ standards and repaired as quickly as possible should failure occur.
- E. The facilities will include an auto-dialer that will call the operator in case of power outages, blower malfunctions, lift station malfunctions or high-water alarm situations.

ATTACHMENT TECH.02

Process Flow Diagram

(Reference Technical Report Page 2, Question 2c)



THIS DRAWING CONTAINS COMIDENTIAL PROPRIETANY
INFORMATION AND MAY NOT BETRANSFERRED, REPRODUCED, OR USED
TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED
WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

WATER ENGINEERS, INC.

Water & Wastewater Treatment Consultants TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066 17230 HIJFFMEISTER ROAD TEL: 281-373-1501 CYPRESS, TEXAS 77429 FAX: 281-373-1113

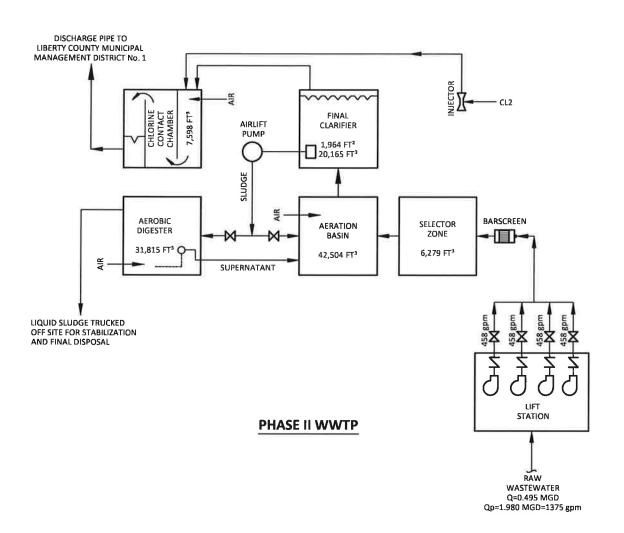
APPLICANT: LIBERTY COUNTY UTILITIES, LLC LIBERTY COUNTY UTILITIES WWTP #4 APPLICATION FOR A NEW TPDES PERMIT

PLOW SCHEMATIC

DRAWN BY: BIR
APPROVED BY: SBY
SCALE: AS NOTED

E: 4/9/2025

TECH.02-1



₩ WATERENGINEERS, INC.

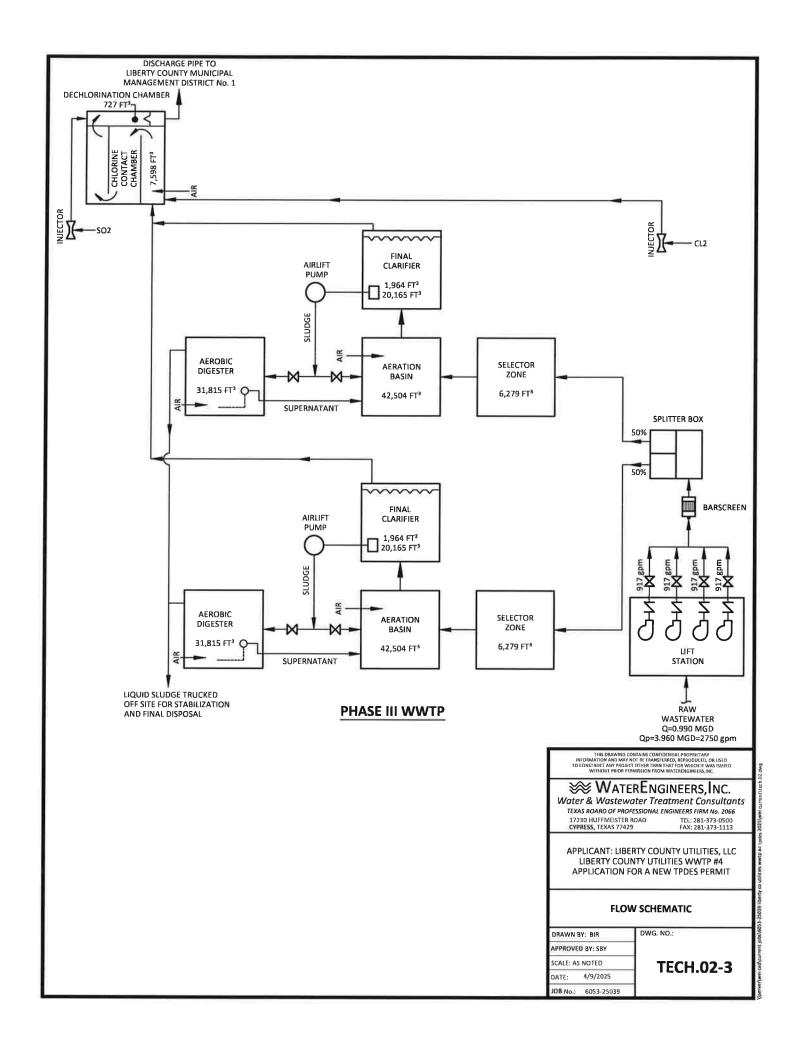
Water & Wastewater Treatment Consultants TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD TEL: 281-373-0500
CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: LIBERTY COUNTY UTILITIES, LLC LIBERTY COUNTY UTILITIES WWTP #4 APPLICATION FOR A NEW TPDES PERMIT

FLOW SCHEMATIC

DWG, NO.: DRAWN BY: BIR APPROVED BY: SBY SCALE: AS NOTED

TECH.02-2 4/9/2025



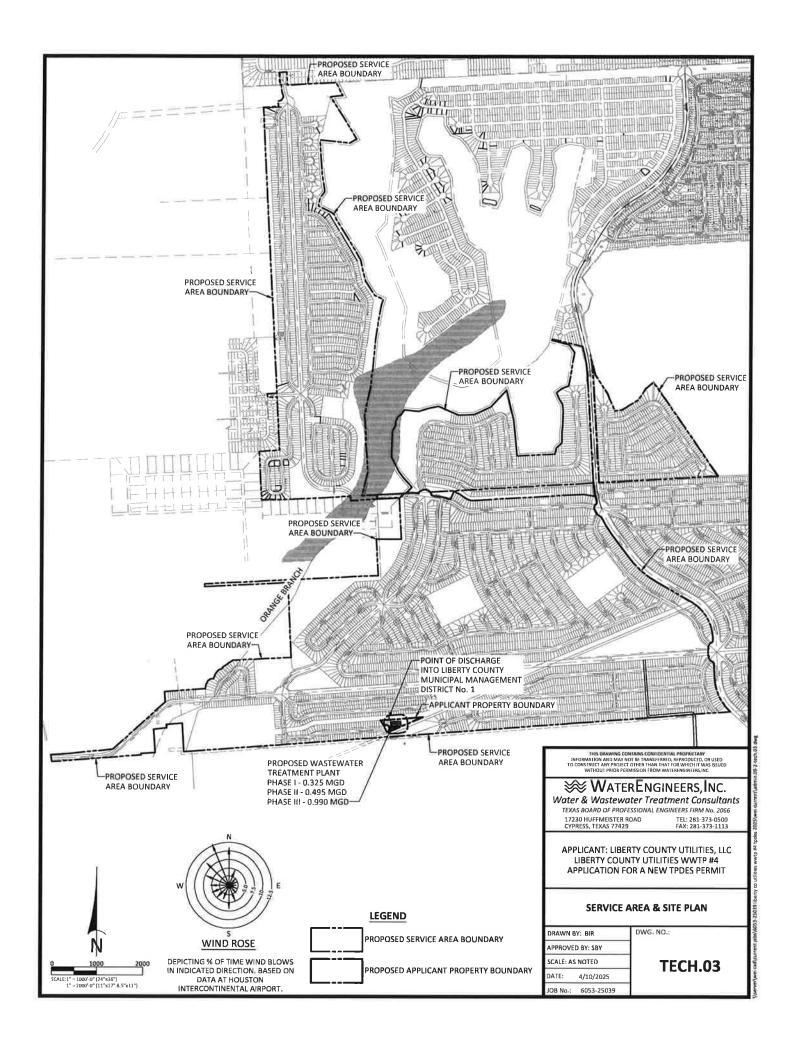
ATTACHMENT TECH.03

Site Drawing

(Reference Technical Report Page 2, Question 3)

(Including Wind Rose)

(Reference Technical Report Page 23, Question 7)



ATTACHMENT TECH.04

Solids Management Plan

(Reference Technical Report Page 23, Question 5B)

ATTACHMENT TECH.04 SLUDGE MANAGEMENT PLAN

1. Type of Wastewater Treatment Process Used

The Liberty County Utilities WWTP #4 (WWTP) will use the activated sludge with nitrification process. Solids analyses have been made based upon a spreadsheet calculation set up using sludge kinetic calculations developed by Dr. Ross McKinney and published in *Notes on Activated Sludge*, 1971, by Brian L. Goodman. Tables TECH.04-01, TECH.04-02 and TECH.04-03 show the process design and sludge generation calculations for the design flows of 325,000 gpd, 495,000 gpd and 990,000 gpd.

2. Dimensions and Capacities

The Phase I treatment facility will have dual digesters with a total volume of 31,815 cu. ft., a surface area of 3,030 sq. ft. and a 10.5 ft. side water depth. The Phase I digesters will provide a total design flow loading of 39.13 cu. ft./1b BOD. The Phase II treatment facility will be comprised of the same units as in Phase I for a total volume of 31,815 cu. ft., surface area of 3,030 sq. ft. and a 10.5 ft. side water depth. The Phase II digesters will provide a total design flow loading of 25.69 cu. ft./lb BOD. The Phase III treatment facility will add identical units as in Phase I/Phase II for a total volume of 63,630 cu. ft., surface area of 6,060 sq. ft. and a 10.5 ft. side water depth. The Phase III digesters will provide a total design flow loading of 25.69 cu. ft./lb BOD.

3. Sludge Generation Calculations

Sludge generation calculations showing the amount of solids generated at 100%, 75%, 50% and 25% of design flows are included in Attachments TECH.04-01, TECH.04-02 and TECH.04-03. These are the solids that must be wasted from the activated sludge process and that must be stabilized in the aerobic digester. The results are summarized in the following table:

Phase	Solids @ 100% Qavg, lb/day	Solids @ 75% Qavg, lb/day	Solids @ 50% Qavg, lb/day	Solids @ 25% Qavg, lb/day
Phase I	554	416	277	139
Phase II	847	633	423	211
Phase III	1,689	1,266	845	423

4. Operating Range of Mixed Liquor Suspended Solids

The calculations that predict the mixed liquor suspended solids in the activated sludge process are located in the following table:

	Predicted Solids @100% Flow		Predicted Solids @75% Flow		Predicted Solids @50% Flow		Predicted Solids @25% Flow	
	sludge age, days	MLSS mg/l	sludge age, days	MLSS mg/l	sludge age, days	MLS S mg/l	sludge age, days	MLSS mg/l
Phase I	17	3,683	22	3,576	34	3,685	68	3,687
Phase II	11	3,672	15	3,711	22	3,631	44	3,633
Phase III	11	3,672	15	3,711	22	3,631	44	3,633

5. Solids Removal Procedures

The removal of waste activated sludge from the activated sludge process is achieved by wasting sludge from the bottom of the clarifier into the aerobic digester using the waste sludge airlift pump. In order to thicken solids prior to putting them into the digester, the air lift is turned off for approximately one hour prior to wasting. Periodically (two to three times a week) the air supply to the aerobic digester is shut off, allowing solids to settle to the bottom of the digester. Then the supernatant liquor is decanted with an adjustable decant airlift pump and returned to the aeration basin. After a sufficient period of digestion and/or the digester is full, sludge is removed from the digester by a vacuum truck by hooking the truck hose to the piping connection and opening the shut off valve.

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

The quantity of solids to be removed at the various plant loadings are presented in the following table. These quantities shown in the tabulation are *monthly* quantities based upon an influent BOD of 300 mg/l and TSS of 240 mg/l. If the strength of the influent wastewater varies significantly, solids removal quantities will be different.

		% Flow acity	_	% Flow acity	_	% Flow pacity		% Flow acity
Phase	% Solids	Gal/ Month	% Solids	Gal/ Month	% Solids	Gal/ Month	% Solids	Gal/ Month
Phase I	2.0	78,792	2.0	59,132	2.0	39,417	2.0	19,714
Phase II	2.0	119,962	2.0	89,982	2.0	60,030	2.0	30,027
Phase III	2.0	239,924	2.0	179,964	2.0	120,060	2.0	60,054

7. Identification of Disposal Site

The disposal of sludge from the WWTP is contracted to sludge management and disposal contractor, Magna-Flow Environmental., who transports liquid sludge from the digester to other wastewater treatment facilities for further processing. Solids documentation is assured by measuring the volume of each sludge withdrawal and measuring the sludge solids concentrations. All required data is included in the annual sludge report to the TCEQ.

ATTACHMENT TECH.01-01 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS LIBERTY COUNTY UTILITIES WWTP No. 4 PHASE I - 325,000 GPD ADF - CAPABLE of 4Q

INFLUENT CONDITIONS					
Design Flow Rate, mgd	0.325		Aeration Vol,	cu ft	42,504
Infl. BOD, mg/l	300		Clarifier Diame	eter, ft	50
Infl. TSS, mg/l	200		Clarifier Side V	Vall Depth, ft	10.27
Infl. VSS, mg/l	160		Total Clarifier	Surface Area, sq f	1,963
BOD Loading, lb/day	813		Total Clarifier \	•	20,165
BOD Load, #/1000 cu ft	19.13		Temperature,	deg C	20
Actual Plant Loading, %		100%	75.0%	50%	25.0%
Actual Flow Rate, mgd		0.325	0.244	0.163	0.081
BOD Loading, #/Day		813	610	407	203
Ret. Sludge Rate, gpd/sq ft		400	400	400	400
Ret. Sludge Flow, mgd		0.79	0.79	0.79	0.79
t = Aeration Time, days		0.978	1.304	1.956	3.913
ts = Sludge Age, Days		17.0	22.0	34.0	68.0
Km = BOD Removal Metabolic	Factor	360	360	360	360
Ks = Synthesis Factor		250	250	250	250
Ke = Endogenous Metabolism	Factor	0.14	0.11	0.07	0.04
F = Effl Soluble BOD		0.85	0.64	0.43	0.21
Ma = Active Mass		1,062	1,031	1,063	1,064
Me = Endogenous Mass		612	594	612	613
Mi = Inert Organic Mass		973	945	973	973
Mii = Inert Inorganic Mass		1,036	1,006	1,036	1,037
Mt = Total Mass, mg/l		3,683	3,576	3,685	3,687
Total Mass in Aeration Basin, II	0	9,765	9,481	9,772	9,776
Lb BOD/Lb MLSS/Day		0.083	0.064	0.042	0.021
Effl TSS, mg/l		7 2	7 2	7 2	7 2
Effl BOD, mg/l		2	2	2	2
Sludge Accumulation, lb/day		574	431	287	144
TSS Lost In Effluent, lb/day		20	15	10	5
Waste Sludge, lb/day		554	416	277	139
Return Sludge Conc, mg/l		5,207	4,686	4,448	4,068
Waste Sludge Conc, mg/l		10,000	10,000	10,000	10,000
Waste Sludge Flow, gpd		6,648	4,993	3,326	1,664
SLUDGE HOLDING TANK					
Volume, cu ft		31,815			
Design Loading, cu ft/lb BOD		39.13	52.17	78.25	156.50
Incoming Sludge Conc, mg/l		10,000	10,000	10,000	10,000
Thick Sludge Conc, mg/l		20,000	20,000	20,000	20,000
Detention, Days		71.59	95.32	143.08	286.06
Infl Total Solids, lb/day		554	416	277	139
Infl Active Mass, lb/day		160	120	80	40
Effl Active Mass, lb/Day		14	11	7	4
Active Mass Red., lb/day		116	88	58	29 110
Digester Effl Solids, lb/day		438	329 1 340	219 1 340	110
Sludge Disposed, lb/mg Sludge Disposed, tons/mg		1,348 0.67	1,349 0.67	1,349 0.67	1,349 0.67
Sludge Disposed, tons/mg Sludge Hauled, gal/day		2,626	1,971	1,314	657
Sludge Hauled, gal/month		78,792	59,132	39,417	19,714
J. Lago Hadioa, ganinontii		10,102	33,132	00,717	10,714

ATTACHMENT TECH.04-02 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS LIBERTY COUNTY UTILITIES WWTP No. 4 PHASE II - 495,000 GPD ADF - CAPABLE of 4Q

INFLUENT CONDITIONS					
Design Flow Rate, mgd	0.495		Aeration Vol,	cu ft	42,504
Infl. BOD, mg/l	300		Clarifier Diame	eter, ft	50
Infl. TSS, mg/l	200		Clarifier Side \	Wall Depth, ft	10.27
Infl. VSS, mg/l	160			Surface Area, sq f	1,963
BOD Loading, lb/day	1,238		Total Clarifier	Volume, cu ft	20,165
BOD Load, #/1000 cu ft	29.14		Temperature,	deg C	20
Actual Plant Loading, %		100%	75.0%	50%	25.0%
Actual Flow Rate, mgd		0.495	0.371	0.248	0.124
BOD Loading, #/Day		1238	929	619	310
Ret. Sludge Rate, gpd/sq ft		400	400	400	400
Ret. Sludge Flow, mgd		0.79	0.79	0.79	0.79
t = Aeration Time, days		0.642	0.856	1.285	2.569
ts = Sludge Age, Days	- Ft	11.0	15.0	22.0	44.0
Km = BOD Removal Metaboli	c Factor	360	360	360	360
Ks = Synthesis Factor	. Faata-	250	250	250	250
Ke = Endogenous Metabolisn F = Effl Soluble BOD	n Factor	0.22	0.16	0.11	0.05
Ma = Active Mass		1.29 1,045	0.97	0.65	0.32 1,048
Me = Endogenous Mass		602	1,070 616	1,047 603	604
Mi = Inert Organic Mass		959	981	959	959
Mii = Inert Inorganic Mass		1,021	1,044	1,021	1,022
Mt = Total Mass, mg/l		3,627	3,711	3,631	3,633
Total Mass in Aeration Basin,	lh	9,617	9,841	9,627	9,632
Lb BOD/Lb MLSS/Day	ID.	0.129	0.094	0.064	0.032
Effl TSS, mg/l		7	7	7	7
Effl BOD, mg/l		3	2	2	2
,		•	_	_	_
Sludge Accumulation, lb/day		874	656	438	219
TSS Lost In Effluent, lb/day		30	23	15	7
Waste Sludge, lb/day		844	633	423	211
Return Sludge Conc, mg/i		5,913	5,466	4,775	4,205
Waste Sludge Conc, mg/l		10,000	10,000	10,000	10,000
Waste Sludge Flow, gpd		10,123	7,591	5,067	2,535
SLUDGE HOLDING TANK					
Volume, cu ft		31,815			
Design Loading, cu ft/lb BOD		25.69	34.25	51.38	102.75
Incoming Sludge Conc, mg/l		10,000	10,000	10,000	102.73
Thick Sludge Conc, mg/l		20,000	20,000	20,000	20,000
Detention, Days		47.01	62.70	93.93	187.76
Infl Total Solids, lb/day		844	633	423	211
Infl Active Mass, Ib/day		243	182	122	61
Effl Active Mass, lb/Day		22	17	11	5
Active Mass Red., lb/day		177	133	89	44
Digester Effl Solids, lb/day		667	500	334	167
Sludge Disposed, lb/mg		1,347	1,348	1,349	1,349
Sludge Disposed, tons/mg		0.67	0.67	0.67	0.67
Sludge Hauled, gal/day		3,999	2,999	2,001	1,001
Sludge Hauled, gal/month		119,962	89,982	60,030	30,027

ATTACHMENT TECH.01-03 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS LIBERTY COUNTY UTILITIES WWTP No. 4 FINAL PHASE - 990,000 GPD ADF - CAPABLE of 4Q

INFLUENT CONDITIONS					
Design Flow Rate, mgd	0.990		Aeration Vol, o	cu ft	85,008
Infl. BOD, mg/l	300		Clarifier Diame		50
Infl. TSS, mg/l	200		Clarifier Side W	Vall Depth, ft	10.27
Infl. VSS, mg/l	160			Surface Area, sq f	3,927
BOD Loading, lb/day	2,477		Total Clarifier \		40,330
BOD Load, #/1000 cu ft	29.14		Temperature,		20
,			, , ,	3	
Actual Plant Loading, %		100%	75.0%	50%	25.0%
Actual Flow Rate, mgd		0.990	0.743	0.495	0.248
BOD Loading, #/Day		2477	1858	1238	619
Ret. Sludge Rate, gpd/sq ft		400	400	400	400
Ret. Sludge Flow, mgd		1.57	1.57	1.57	1.57
t = Aeration Time, days		0.642	0.856	1.285	2.569
ts = Sludge Age, Days		11.0	15.0	22.0	44.0
Km = BOD Removal Metaboli	ic Factor	360	360	360	360
Ks = Synthesis Factor		250	250	250	250
Ke = Endogenous Metabolisn	n Factor	0.22	0.16	0.11	0.05
F = Effl Soluble BOD		1.29	0.97	0.65	0.32
Ma = Active Mass		1,045	1,070	1,047	1,048
Me = Endogenous Mass		602	616	603	604
Mi = Inert Organic Mass		959	981	959	959
Mii = Inert Inorganic Mass		1,021	1,044	1,021	1,022
Mt = Total Mass, mg/l		3,627	3,711	3,631	3,633
Total Mass in Aeration Basin,	lb	19,233	19,681	19,254	19,264
Lb BOD/Lb MLSS/Day		0.129	0.094	0.064	0.032
Effl TSS, mg/l		7	7	7	7
Effl BOD, mg/l		3	2	2	2
Sludge Accumulation, lb/day		1748	1312	875	438
TSS Lost In Effluent, lb/day		60	46	30	15
Waste Sludge, lb/day		1689	1266	845	423
Return Sludge Conc, mg/l		5,913	5,466	4,775	4,205
Waste Sludge Conc, mg/l		10,000	10,000	10,000	10,000
Waste Sludge Flow, gpd		20,247	15,181	10,134	5,070
SLUDGE HOLDING TANK					
Volume, cu ft		63,630			
Design Loading, cu ft/lb BOD		25.69	34.25	51,38	102,75
Incoming Sludge Conc, mg/l		10,000	10,000	10,000	10,000
Thick Sludge Conc, mg/l		20,000	20,000	20,000	20,000
Detention, Days		47.01	62.70	93.93	187.76
Infl Total Solids, lb/day		1,689	1,266	845	423
Infl Active Mass, lb/day		486	365	244	122
Effl Active Mass, lb/Day		43	33	22	11
Active Mass Red., lb/day		355	266	178	89
Digester Effl Solids, lb/day		1,334	1,001	668	334
Sludge Disposed, lb/mg		1,347	1,348	1,349	1,349
Sludge Disposed, tons/mg		0.67	0.67	0.67	0.67
Sludge Hauled, gal/day		7,997	5,999	4,002	2,002
Sludge Hauled, gal/month		239,924	179,964	120,060	60,054

ATTACHMENT TECH.06

Development Schedule

(Reference Technical Report Page 20, Section 1A)

LIBERTY COUNTY UTILITIES, LLC LIBERTY COUNTY UTILITIES WASTEWATER TREATMENT PLANT #4 WQ00 NEW

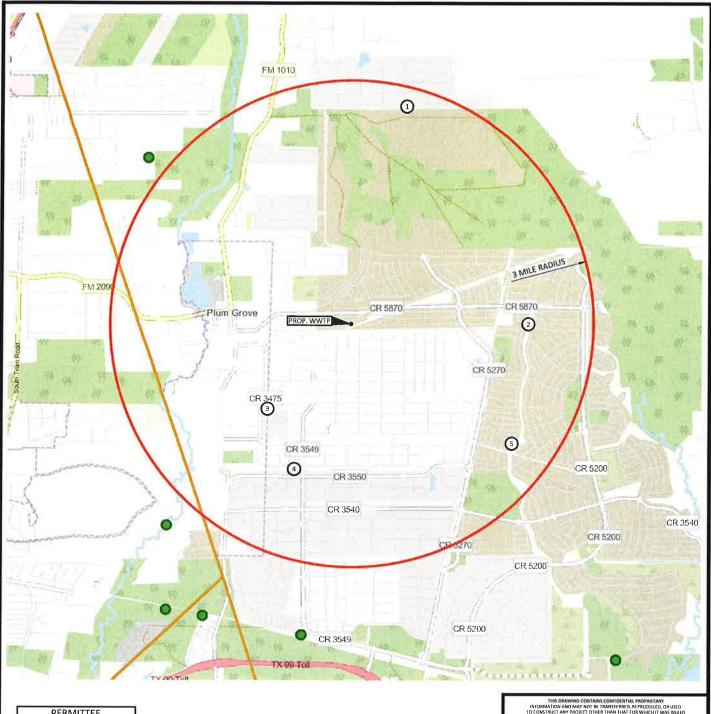
DEVELOPMENT SCHEDULE

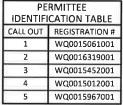
YEAR	NUMBER (CONNEC		
			GALLONS
	ANNUAL	TOTAL	TO WWTP
End 2026	300	300	67500 1ST 0.325 mgd WWTP operational
End 2027	300	600	135000
End 2028	300	900	202500
End 2029	300	1200	270000
End 2030	300	1500	337500 minor changes made to plant to bring to
End 2031	300	1800	405000 0.495 mgd capacity
End 2032	300	2100	472500 Q2 begin construction of 2nd 0.495 mgd WWTP
End 2033	300	2400	540000
End 2034	300	2700	607500
End 2035	300	3000	675000
End 2036	300	3300	742500
End 2037	300	3600	810000
End 2038	300	3900	877500
End 2039	124	4024	905400

ATTACHMENT TECH.07 Map and List of Facilities within 3 Miles and

Service Request Letters

(Reference Technical Report Page 20, Section 1B3)





WATER ENGINEERS, INC.

Water & Wastewater Treatment Consultants TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066 17230 HUFFMEISTER ROAD CYPRESS, TEXAS 77429

APPLICANT: LIBERTY COUNTY UTILITIES, LLC LIBERTY COUNTY UTILITIES WWTP #4 APPLICATION FOR A NEW TPDES PERMIT

THREE MILE RADIUS PERMITEE MAP

DWG. NO.:

ı	DRAWN 8	Y: BIR				
ı	APPROVE	D BY: SBY				
ı	SCALE: AS NOTED					
ı	DATE:	4/7/2025				
ı	IOD N-	6052 35030				

SCALE:1" = 3000' 0" (24"x36") 1" = 6000' 0" (11"x17" 8.5"x11")

TECH.07



WATER & WASTEWATER TREATMENT CONSULTANTS

17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643 Tel: 281-373-0500 Fax: 281-373-1113

March 10, 2025

Quadvest LP 26926 FM 2978 Magnolia, TX 88354

emailed to: murback@quadvest.com

Re:

TCEQ Waste Discharge Permit No. WQ0015061001

Dear Permittee:

We are writing to you on behalf of Liberty County Utilities, LLC regarding a proposed wastewater treatment plant project to serve a portion of the single-family development, known as Santa Fe in Liberty County, located approximately 1.45 miles east of the intersection Plum Grove Road and Enloe Blvd., as shown on the attached map. The proposed wastewater system will serve approximately 4,392 equivalent single-family connections. Liberty County Utilities, LLC is in the process of applying for a new TCEQ TPDES Permit to discharge 990,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or CCN holders with collection systems within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant or CCN service area located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

We will appreciate receiving a response from you indicating if 990,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at syoung@waterengineers.com or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely, WATERENGINEERS, INC.

Shelley Young

Shelley Young, P.E.

= 12	REPLY
Date of Reply: 3/11/25	Printed Name: MARIC L. URBACK Title: EVP - Construction & Avanceurs
Name of Permittee: Quarter LP	Printed Name: MARIC L. URBACK
Capacity Available (Yes No)	Title: EVP - CONSTRUCTION & ANGINEERING
Terms (if available)	Address:
	_
	Telephone:
	Email:



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

March 10, 2025

Liberty County Utilities LLC P.O. Box 279 New Waverly, Texas 77358-0279

emailed to: marshwaterman@aol.com

Re:

TCEQ Waste Discharge Permit No. WQ0016319001

Dear Permittee:

We are writing to you on behalf of Liberty County Utilities, LLC regarding a proposed wastewater treatment plant project to serve a portion of the single-family development, known as Santa Fe in Liberty County, located approximately 1.45 miles east of the intersection Plum Grove Road and Enloe Blvd., as shown on the attached map. The proposed wastewater system will serve approximately 4,392 equivalent single-family connections. Liberty County Utilities, LLC is in the process of applying for a new TCEQ TPDES Permit to discharge 990,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or CCN holders with collection systems within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant or CCN service area located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

We will appreciate receiving a response from you indicating if 990,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at syoung@waterengineers.com or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely,

WATERENGINEERS, INC.

Shelley Young

Shelley Young, P.E.

	REPLY
Date of Reply:	
	Telephone:832-941-1294 Email:



WATER & WASTEWATER TREATMENT CONSULTANTS

17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643 Tel: 281-373-0500 FAX: 281-373-1113

March 10, 2025

Quadvest LP 26926 FM 2978 Magnolia, TX 88354

emailed to: murback@quadvest.com

Re:

TCEQ Waste Discharge Permit No. WQ0015452001

Dear Permittee:

We are writing to you on behalf of Liberty County Utilities, LLC regarding a proposed wastewater treatment plant project to serve a portion of the single-family development, known as Santa Fe in Liberty County, located approximately 1.45 miles east of the intersection Plum Grove Road and Enloe Blvd., as shown on the attached map. The proposed wastewater system will serve approximately 4,392 equivalent single-family connections. Liberty County Utilities, LLC is in the process of applying for a new TCEQ TPDES Permit to discharge 990,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or CCN holders with collection systems within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant or CCN service area located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

We will appreciate receiving a response from you indicating if 990,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at syoung@waterengineers.com or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely,

WATERENGINEERS, INC.

Shelley Young

Shelley Young, P.E.

	REPLY
Date of Reply: 3/11/20	Signature: 2. Lest
Name of Permittee: Quantovest, LP	Printed Name: MARK C. URBACK
Capacity Available (Yes / Nov	Printed Name: MARK C. URBACK Title: EUP - CONSTRUCTION & BUGINGERING
Terms (if available)	Address:
	Telephone:
	Fmail



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

March 10, 2025

Utilities Investment Co., Inc. P.O. Box 279 New Waverly, Texas 77358-0279

emailed to: marshwaterman@aol.com

Re:

TCEQ Waste Discharge Permit No. WQ0015012001

Dear Permittee:

We are writing to you on behalf of Liberty County Utilities, LLC regarding a proposed wastewater treatment plant project to serve a portion of the single-family development, known as Santa Fe in Liberty County, located approximately 1.45 miles east of the intersection Plum Grove Road and Enloe Blvd., as shown on the attached map. The proposed wastewater system will serve approximately 4,392 equivalent single-family connections. Liberty County Utilities, LLC is in the process of applying for a new TCEQ TPDES Permit to discharge 990,000 gpd.

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Sincerely,

WATERENGINEERS, INC.

Shelley Young

Shelley Young, P.E.

	REPLY
Date of Reply: 3 11 28 Name of Permittee: U(C Capacity Available (Yes (No)?)	Signature: Printed Name: S - Munc Title:
Terms (if available)	Address:
	Telephone:
	Email;

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

emailed to: marshwaterman@aol.com

March 10, 2025

Liberty County Utilities LLC P.O. Box 279 New Waverly, Texas 77358-0279

Re:

TCEQ Waste Discharge Permit No. WQ0015967001

Dear Permittee:

We are writing to you on behalf of Liberty County Utilities, LLC regarding a proposed wastewater treatment plant project to serve a portion of the single-family development, known as Santa Fe in Liberty County, located approximately 1.45 miles east of the intersection Plum Grove Road and Enloe Blvd., as shown on the attached map. The proposed wastewater system will serve approximately 4,392 equivalent single-family connections. Liberty County Utilities, LLC is in the process of applying for a new TCEQ TPDES Permit to discharge 990,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or CCN holders with collection systems within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant or CCN service area located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

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Sincerely,

WATERENGINEERS, INC.

Shelley Young

Shelley Young, P.E.

	REPLY		
Date of Reply: 3/11/26 Name of Permittee: LCU	Signature: S. maas ut		
Capacity Available (Yes / No)?	Title: Men Ser		
Terms (if available)	Address:		
	Telephone: 832-941-1694		
	Email:		

COLONY RIDGE DEVELOPMENT LLC P O BOX 279 FRESNO TX 77545 ELUID REYES
39 LAKEVIEW STREET
CLEVELAND TX 77327

BERLY ESTRADA 8800 W US 290 APT 1237 AUSTIN TX 78736

DERIC GUZMAN 681 UNION STREET APT 1 EW BEDFORD MA 02740 FRITTO JOURDAIN 6111 GLENMONT DRIVE APT 83 HOUSTON TX 77081 CINTHIA CRUZ 10580 HAMMERLY APT 2413 HOUSTON TX 77043

LEANDRO RUIZ 635 SUMMER STREET APT 1N NEW BEDORD MA 02746 JOSE ESTRADA & MARIA AGUIRRE 2724 CLEVELAND AVENUE NEW ORLEANS LA 70119 RUBEN RUIZ 7715 ½ KELLER STREET HOUSTON TX 77012

LIBERTY COUNTY MUNICIPAL MANAGEMENT DISTRICT #1 9 GREENWAY PLAZA SUITE 1000 HOUSTON TX 77046

REBECCA BLANCO 1234 CR 3550 CLEVELAND TX 77327 ZITALI MONTANEZ 356 CR 5010 CLEVELAND TX 77327

WALTER PEREZ & MARIBEL GUERRERO 1909 JEAN STREET HOUSTON TX 77023

ALEJANDRO CAMPANA 2611 COLONY HAVEN CIRCLE SPRING TX 77373

JEIMY SALAZAR 2611 COLONY HAVEN CIRCLE SPRING TX 77373 YONAEL AMADOR 8312 N IH-35 APT 156 AUSTIN TX 78753 ZOILA REYES 35 BULLARD STREET APT 3 NEW BEDFORD MA 02746

VICTOR CARDENAS & YLIANA MAIZO 15155 KATY FREEWAY APT 217 HOUSTON TX 77094 JOSE CANTU 1210 SOL STREET HOUSTON TX 77029 DEYNER RUIZ 35 BULLARD STREET APT 3 NEW BEDFORD MA 02746

MILTON MARTINEZ 905 CYPRESS STATION DRIVE APT 03 HOUSTON TX 77090 MARIO DOMINGUEZ-LUNA 4100 E 50TH STREET APT 304 ODESSA TX 79762 AMAURY JORRIN 7630 BELLERIVE DRIVE APT 13 HOUSTON TX 77036

MARTHA DIAZ 172 ROAD 5122 CLEVELAND TX 77327 LINDA ALCIUS 6111 GLENMONT DRIVE APT 83 HOUSTON TX 77081 SAUL GONZALEZ-VALDIOSERA 522 SOUTH DURBIN STREET UNIT B CASPER WY 82601

EDGAR VAZQUEZ 13050 SOUTH BLESSEN ROAD AMARILLO TX 79119 MARCELINO MARTINEZ & SANDRA HERNANDEZ 29902 BROWNSVILLE STREET MAGNOLIA TX 77354

ERICK URBINA 1543 MICHIGAN AVENUE APT 105 MIAMI BEACH FL 33139 **JOSE RIVAS EBLER SANCHEZ ROLANDO JIMENES** 1515 BODART DRIVE 5500 5500 ANTOINE APT 25 4322 SPRING VALLEY ROAD **HOUSTON TX 77090 HOUSTON TX 77041 HOUSTON TX 77091** TATIANA ARRYAVE **BERTIN SOSA & GEMINA YANEZ** LAZARO HERNANDEZ-AYALA & 8900 RESEARCH PARK DR APT 1411 1055 CR 7000 MARIA HERNANDEZ THE WOODLANDS TX 77381 **CLEVELAND TX 77327** 2760 CR 5018 **CLEVELAND TX 77327** JORGE ANGEL **ALMAY NUNEZ** SALVADOR NUNEZ 4926 PARADISE LANE 2188 CR 5030 2188 CR 5030 **HOUSTON TX 77048 CLEVELAND TX 77327 CLEVELAND TX 77327 GONZALO PEREZ** JUAN LOPEZ ALBA GARAY 2188 CR 5030 112 CR 5221 **8127 BEN AVENUE CLEVELAND TX 77327 CLEVELAND TX 77327** NORTH HOLLYWOOD CA 91605 MARIA ARMENTA & JUAN NAVARRO **GLENDA PAZ-GARAY** SAMUEL SILVA 455 CR 5011 2406 NARROW VALLEY DRIVE 10335 LONGMONT DRIVE CEDAR PARK TX 78613 **HOUSTON TX 77042 CLEVELAND TX 77327 EDNA FLORES CECILIA PAZ-GARAY** JOSE IRACHETA 455 CR 5011 7302 ALABONSON ROAD APT 1206 **4047 SALINA LANE CLEVELAND TX 77327 HOUSTON TX 77088 HUMBLE TX 77396** PABLO CUBILLO MARILU MARTINEZ MAIKEL PUPO 4900 WOODWAY DRIVE SUITE 1110 2611 COLONY HAVEN CIRCLE 2611 COLONY HAVEN CIRCLE SPRING TX 77373 **HOUSTON TX 77056** SPRING TX 77373 **ERIBELLA GONZALEZ** JOSUE JAIME **LIUDIS TAMAYO** 5838 LOMA LINDA 945 CR 51023 333 AIRTEX DRIVE APT 8206 **HOUSTON TX 77085 HOUSTON TX 77090 CLEVELAND TX 77327** JUSTINO GRACIA & TERRESA MAZANO FRANCISCO CASTILLO VICTOR GRIJALVA 11111 SAGEVIEW DRIVE 2604 VANCE STREET 1922 SANDY HILL CIRCLE

DENIS GUZMAN 681 UNION STREET APT 1 NEW BEDFORD MA 02740

HOUSTON TX 77089

RUBEN BARRON 9806 SHADOW VILLA LANE HOUSTON TX 77044

CYPRESS TX 77433

MARIA ESTRADA 3931 KNOTTYNOLD LANE HOUSTON TX 77053

HOUSTON TX 77093

MIGUEL BARRIENTOS 15323 MERRITT LANE HOUSTON TX 77060 JORGE CUELLAR 14622 MONTEREY CYPRESS DRIVE HOUSTON TX 77068 NEGASH DESTA 3018 SHERBROOKE CANYON LANE HOUSTON TX 77047

SETEGN GELETE 13127 WOODVINE TRAIL HOUSTON TX 77072

MIRIAM GONZALEZ & CARLOS CASTRO 9502 HUNTINGTON HILL DRIVE HOUSTON TX 77099 JOSE ROQUE & LETICIA SANCHEZ 9534 RUMBLING WOOD LANE HOUSTON TX 77086

JESUS GARCIA & WILBERLY RAMIREZ 10118 FALLMONT CIRCLE HOUSTON TX 77086

WILLIAMS GARCIA 1719 BONNYTON LANE HOUSTON TX 77014 ELSA ROMERO & HENRY ESCOTO 9502 HUNTINGTON HILL DRIVE HOUSTON TX 77099

CORNELIO ARCE & LAURA TAMAYO 20711 COOK ROAD TOMBALL TX 77377