

# This file contains the following documents:

- 1. Summary of application (in plain language)
  - English
  - Alternative Language (Spanish)
- 2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
  - English
  - Alternative Language (Spanish)
- 3. Second notice (NAPD-Notice of Preliminary Decision)
  - Enalish
  - Alternative Language (Spanish)
- 4. Application materials \*
- 5. Draft permit \*
- 6. Technical summary or fact sheet \*
- \* **NOTE:** This application was declared Administratively Complete before June 1, 2024. The application materials, draft permit, and technical summary or fact sheet are available for review at the Public Viewing Location provided in the NAPD.



# Este archivo contiene los siguientes documentos:

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

Plantation Municipal Utility District – TPDES Renewal Plain Language Summary

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

Plantation Municipal Utility District (CN600627731) operates the Plantation MUD wastewater treatment facility (RN102915634), an activated sludge process plant operated in the single stage nitrification mode. The facility is located at 1000 Greatwood Glen Drive, in Fort Bend County, Texas 77479.

This application is for a renewal to discharge at a daily average flow of 440,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ( $CBOD_5$ ), total suspended solids (TSS), ammonia nitrogen ( $NH_3$ -N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

# **Spanish Translation**

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

El Distrito de Servicios Públicos Municipales de Plantation (CN600627731) opera La Planta De Tratamiento de aguas residuales (RN102915634) de Plantation MUD, la planta activamente esta procesando y f funcionando en el modo de nitrificación de una sola etapa. La facilidad está ubicada en 1000 Greatwood Glen Drive, en el Condado de Fort Bend, Texas 77479.

Esta solicitud es para una renovación para poder descargar un flujo promedio diario de 440,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la facilidad contengan una demanda bioquímica carbonosa de oxígeno (CBOD5) de cinco días, sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N) y *Escherichia coli*. Adicionalmente, la sección 7 del Informe Técnico Nacional 1.0 incluye contaminantes potenciales adicionales. Análisis de Contaminantes de Efluentes Tratados y Hoja de Trabajo Doméstico 4.0 en el paquete de solicitud de permiso. Las aguas residuales domésticas son tratadas por una planta active que procesa lodos y las unidades de tratamiento que incluyen una criba de barras, cuencas de aireación, clarificadores finales, digestores de lodos y cámaras de contacto de cloro.

Plantation Municipal Utility District – TPDES Renewal Plain Language Summary

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

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This application is for a renewal to discharge at a daily average flow of 440,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ( $CBOD_5$ ), total suspended solids (TSS), ammonia nitrogen ( $NH_3$ -N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

# **Spanish Translation**

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El Distrito de Servicios Públicos Municipales de Plantation (CN600627731) opera La Planta De Tratamiento de aguas residuales (RN102915634) de Plantation MUD, la planta activamente esta procesando y f funcionando en el modo de nitrificación de una sola etapa. La facilidad está ubicada en 1000 Greatwood Glen Drive, en el Condado de Fort Bend, Texas 77479.

Esta solicitud es para una renovación para poder descargar un flujo promedio diario de 440,000 galones por día de aguas residuales domésticas tratadas.

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# **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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

# PERMIT NO. WQ0011971001

APPLICATION. Plantation Municipal Utility District, 1300 Post Oak Boulevard, Suite 2400, Houston, Texas 77056, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011971001 (EPA I.D. No. TX0076554) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 440,000 gallons per day. The domestic wastewater facility is located at 1000 Greatwood Glen Drive in the city of Sugar Land, in Fort Bend County, Texas 77479. The discharge route is from the plant site to Rabbs Bayou; thence to a diversion channel; thence to Middle Bayou; thence to Brazos River below Navasota River. TCEQ received this application on February 29, 2024. The permit application will be available for viewing and copying at University Branch Library, Reference Desk, 14010 University Boulevard, Sugar Land, in Fort Bend County, Texas prior to the date this notice is published in the newspaper. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceg.texas.gov/LocationMapper/?marker=-95.687181,29.546203&level=18

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

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.

TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at <a href="www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. 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 <a href="https://www14.tceq.texas.gov/epic/eComment/">https://www14.tceq.texas.gov/epic/eComment/</a>, 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 <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Plantation Municipal Utility District at the address stated above or by calling Mr. Jonathan Nguyen, Permitting Specialist, Quiddity Engineering, at 512-685-5156.

Issuance Date: April 17, 2024

# Comisión de Calidad Ambiental del Estado de Texas



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

# **PERMISO NO. WQ0011971001**

SOLICITUD. Distrito Municipal de Plantación ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0011971001 (EPA I.D. No. TX0076554) 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 440,000 galones por día. La planta está ubicada en 1000 Greatwood Glen Drive Sugar Land, en el Condado de Fort Bend, Texas. La ruta de descarga es del sitio de la planta a es del sitio de la planta en Rabbs Bayou; de allí a un canal de desvío; de allí a Middle Bayou; de allí al río Brazos debajo del río Navasota. La TCEQ recibió esta solicitud el 29 de febrero del 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca sucursal de la universidad, mostrador de referencia, 14010 University Boulevard, Sugar Land, en el condado de Fort Bend, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.687181,29.546203&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. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. 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 <a href="http://www14.tceq.texas.gov/epic/eComment/">http://www14.tceq.texas.gov/epic/eComment/</a>o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Distrito Municipal de Plantación a la dirección indicada arriba o llamando a Sr. Jonathan Nguyen al at 512-685-5156

Fecha de emission: 17 de abril de 2024

# **Texas Commission on Environmental Quality**



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

#### **RENEWAL**

# **PERMIT NO. WQ0011971001**

**APPLICATION AND PRELIMINARY DECISION**. Plantation Municipal Utility District, 1300 Post Oak Boulevard, Suite 2400, Houston, Texas 77056, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011971001 which authorizes the discharge of treated domestic wastewater at a daily average flow not to exceed 440,000 gallons per day. TCEQ received this application on February 29, 2024.

The facility is located at 1000 Greatwood Glen Drive, in the City of Sugar Land, Fort Bend County, Texas 77479. The treated effluent is discharged to Rabbs Bayou, thence to a diversion channel, thence to Middle Bayou, thence to the Brazos River Below Navasota River in Segment No. 1202 of the Brazos River Basin. The unclassified receiving water use is limited aquatic life use for Rabbs Bayou. The designated uses for Segment No. 1202 are primary contact recreation, public water supply, and high aquatic life use. All determinations are preliminary and subject to additional review and/or revisions. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.687181,29.546203&level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at University Branch Library, Reference Desk, 14010 University Boulevard, Sugar Land, in Fort Bend County, Texas.

**ALTERNATIVE LANGUAGE NOTICE.** Alternative language notice in Spanish is available at <a href="https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices">https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices</a>.

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from Plantation Municipal Utility District at the address stated above or by calling Mr. Jonathan Nguyen, Permitting Specialist, Quiddity Engineering, at 512-685-5156.

Issuance Date: July 22, 2024

# Comisión de Calidad Ambiental de Texas



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

# RENOVACIÓN

# PERMISO Nº WQ0011971001

**SOLICITUD Y DECISIÓN PRELIMINAR**. Distrito de Servicios Públicos Municipales de Plantation, 1300 Post Oak Boulevard, Suite 2400, Houston, Texas 77056, ha solicitado a la Comisión de Texas Calidad Ambiental (TCEQ) para la renovación del Permiso No. WQ0011971001 que autoriza la descarga de aguas residuales domésticas tratadas a un caudal promedio diario que no exceda los 440,000 galones por día. TCEQ recibió esta solicitud el 29 de febrero de 2024.

La instalación está ubicada en 1000 Greatwood Glen Drive, en la ciudad de Sugar Land, condado de Fort Bend, Texas 77479. El efluente tratado se descarga en Rabbs Bayou, de allí a un canal de desvío, y de allí a Middle Bayou, de allí al río Brazos por debajo del río Navasota en el segmento No. 1202 de la cuenca del río Brazos. El uso de agua receptor no clasificado es el uso limitado de la vida acuática para Rabbs Bayou. Los usos designados para el Segmento No. 1202 son la recreación de contacto primario, el suministro público de agua y el uso de alta vida acuática. Todas las determinaciones son preliminares y están sujetas a revisión y/o revisiones adicionales. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no es parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.687181,29.546203&nivel=18

El Director Ejecutivo de la TCEQ ha completado el examen técnico de la solicitud y ha preparado un proyecto de permiso. El proyecto de permiso, de ser aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar de que este permiso, si se concede, cumple con todos los requisitos legales y reglamentarios. La solicitud de permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para su visualización y copia en la Biblioteca de la Sucursal Universitaria, Escritorio de Referencia, 14010 University Boulevard, Sugar Land, en el condado de Fort Bend, Texas.

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

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

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

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, DEBE INCLUIR LOS SIGUIENTES ELEMENTOS EN SU SOLICITUD: su nombre, dirección, número de teléfono; nombre del solicitante y número de permiso propuesto; la ubicación y distancia de su propiedad/actividades en relación con la instalación propuesta; una descripción específica de cómo se vería afectado negativamente por la instalación de una manera que no es común para el público en general; una lista de todas las cuestiones de hecho en disputa que envíe durante el período de comentarios; y la declaración "[Yo/nosotros] solicitamos una audiencia de caso impugnado". Si la solicitud de audiencia de caso impugnado se presenta en nombre de un grupo o asociación, la solicitud debe designar al representante del grupo para recibir correspondencia futura; identificar por nombre y dirección física a un miembro individual del grupo que se vería afectado negativamente por la instalación o actividad propuesta; proporcionar la información mencionada anteriormente con respecto a la ubicación y la distancia del miembro afectado de la instalación o actividad; explicar cómo y por qué el miembro se vería afectado; y explicar cómo los intereses que el grupo busca proteger son relevantes para el propósito del grupo.

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

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

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

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

Todos los comentarios públicos por escrito y las solicitudes de reuniones públicas deben enviarse a la Oficina del Secretario Principal, MC 105, Comisión de Calidad Ambiental de Texas, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente en <a href="https://www.tceq.texas.gov/goto/comment">www.tceq.texas.gov/goto/comment</a> dentro de los 30 días a partir de la fecha de publicación de este aviso en el periódico.

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

**CONTACTOS E INFORMACIÓN DE LA AGENCIA.** Los comentarios y solicitudes públicas deben presentarse electrónicamente en <a href="www.tceq.texas.gov/goto/comment">www.tceq.texas.gov/goto/comment</a>, o por escrito a la Comisión de Calidad Ambiental de Texas, Oficina del Secretario Principal, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a la TCEQ pasará a formar parte del registro de la agencia; Esto incluye direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de TCEQ, línea gratuita, al 1-800-687-4040 o visite su sitio web en <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener más información del Distrito de Servicios Públicos Municipales de Plantation en la dirección indicada anteriormente o llamando al Sr. Jonathan Nguyen, Especialista en Permisos, Quiddity Engineering, al 512-685-5156.

Fecha de emisión: 22 de julio de 2024



TPDES PERMIT NO. WQ0011971001 [For TCEQ office use only - EPA I.D. No. TX0076554]

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

This is a renewal that replaces TPDES Permit No. WQ0011971001 issued on September 10, 2019.

# PERMIT TO DISCHARGE WASTES

under provisions of Section 402 of the Clean Water Act and Chapter 26 of the Texas Water Code

Plantation Municipal Utility District

whose mailing address is

1300 Post Oak Boulevard, Suite 2400 Houston, Texas 77056

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

located at 1000 Greatwood Glen Drive, in the City of Sugar Land, Fort Bend County, Texas 77479

to Rabbs Bayou, thence to a diversion channel, thence to Middle Bayou, thence to the Brazos River Below Navasota River in Segment No. 1202 of the Brazos River Basin

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

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

ISSUED DATE:	
	For the Commission

# EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

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

The daily average flow of effluent shall not exceed 0.44 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 1,222 gallons per minute (gpm).

Effluent Characteristic		Discharge L	Min. Self-Monitoring Requirements			
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Av Measurement Frequency	rg. & Max. Single Grab Sample Type
Flow, MGD	Report	N/A	Report	N/A	Five/week	Instantaneous
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (37)	15	25	35	One/week	Grab
Total Suspended Solids	15 (55)	25	40	60	One/week	Grab
Ammonia Nitrogen	3 (11)	6	10	15	One/week	Grab
Escherichia coli, colony- forming units or most probable number per 100 ml	126	N/A	N/A	399	One/month	Grab

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

# **DEFINITIONS AND STANDARD PERMIT CONDITIONS**

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

# 1. Flow Measurements

- a. Annual average flow the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.
- b. Daily average flow the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) the highest 2-hour peak flow for any 24-hour period in a calendar month.

# 2. Concentration Measurements

- a. Daily average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
  - i. For domestic wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

- ii. For all other wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.
  - The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.
- e. Bacteria concentration (*E. coli* or Enterococci) Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
- f. Daily average loading (lbs/day) the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
- g. Daily maximum loading (lbs/day) the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

# 3. Sample Type

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

- b. Grab sample an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
- 7. Bypass the intentional diversion of a waste stream from any portion of a treatment facility.

# MONITORING AND REPORTING REQUIREMENTS

# 1. Self-Reporting

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

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

#### 2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

# 3. Records of Results

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

- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
  - i. date, time and place of sample or measurement;
  - ii. identity of individual who collected the sample or made the measurement.
  - iii. date and time of analysis;
  - iv. identity of the individual and laboratory who performed the analysis;
  - v. the technique or method of analysis; and
  - vi. the results of the analysis or measurement and quality assurance/quality control records.

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

# 4. Additional Monitoring by Permittee

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

# 5. Calibration of Instruments

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

# 6. Compliance Schedule Reports

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

Monitoring Team of the Enforcement Division (MC 224).

# 7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
  - i. Unauthorized discharges as defined in Permit Condition 2(g).
  - ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.
  - iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
- c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Compliance Monitoring Team of the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form
- 8. In accordance with the procedures described in 30 TAC §§ 35.301 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
- 9. Changes in Discharges of Toxic Substances

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

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. One hundred micrograms per liter (100  $\mu$ g/L);
  - ii. Two hundred micrograms per liter (200  $\mu$ g/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500  $\mu$ g/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. Five hundred micrograms per liter (500  $\mu$ g/L);
  - ii. One milligram per liter (1 mg/L) for antimony;
  - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.

# 10. Signatories to Reports

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

- 11. All POTWs must provide adequate notice to the Executive Director of the following:
  - a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;
  - b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
  - c. For the purpose of this paragraph, adequate notice shall include information on:
    - i. The quality and quantity of effluent introduced into the POTW; and
    - ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

# PERMIT CONDITIONS

#### 1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
  - i. Violation of any terms or conditions of this permit;
  - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
  - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

#### 2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

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

- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 7.075 (relating to Administrative Penalties), 7.101 7.111 (relating to Civil Penalties), and 7.141 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

# 3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

#### 4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
  - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or
  - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
  - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the

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

# 5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

# 6. Relationship to Hazardous Waste Activities

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

# 7. Relationship to Water Rights

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

# 8. Property Rights

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

# 9. Permit Enforceability

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

# 10. Relationship to Permit Application

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

# 11. Notice of Bankruptcy

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
  - i. the permittee;
  - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
  - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

- b. This notification must indicate:
  - i. the name of the permittee;
  - ii. the permit number(s);
  - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
  - iv. the date of filing of the petition.

# **OPERATIONAL REQUIREMENTS**

- 1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
- 2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 319.29 concerning the discharge of certain hazardous metals.
- 3. Domestic wastewater treatment facilities shall comply with the following provisions:
  - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
  - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
- 4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
- 5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
- 6. The permittee shall remit an annual water quality fee to the Commission as required by 30

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

#### 7. Documentation

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

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

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

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

- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
- 9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
- 10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
- 11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
  - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
  - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
  - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
  - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
  - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well,

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

- f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:
  - i. Volume of waste and date(s) generated from treatment process;
  - ii. Volume of waste disposed of on-site or shipped off-site;
  - iii. Date(s) of disposal;
  - iv. Identity of hauler or transporter;
  - v. Location of disposal site; and
  - vi. Method of final disposal.

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

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

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# **SLUDGE PROVISIONS**

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

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

# A. General Requirements

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

# **B.** Testing Requirements

1. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 12) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

TABLE 1

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

<sup>\*</sup> Dry weight basis

# 3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

# Alternative 1

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

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

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

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

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

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

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

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

for 30 days after application of biosolids.

ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

#### 4. Vector Attraction Reduction Requirements

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

- <u>Alternative 1</u> The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.
- <u>Alternative 8</u> The percent solids of sewage sludge that contains unstabilized solids

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

#### Alternative 9 -

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

#### Alternative 10-

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

#### C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure
(TCLP) Test

PCBs

- once during the term of this permit
- once during the term of this permit

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

Amount of biosolids (\*)

metric tons per 365-day period Monitoring Frequency

o to less than 290 Once/Year

290 to less than 1,500 Once/Quarter

1,500 to less than 15,000 Once/Two Months

15,000 or greater Once/Month

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

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

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal

coliforms, helminth ova, Salmonella sp., and other regulated parameters.

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

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

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

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

#### A. Pollutant Limits

#### Table 2

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

#### Table 3

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

<sup>\*</sup>Dry weight basis

#### **B.** Pathogen Control

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

#### C. Management Practices

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

#### **D. Notification Requirements**

- 1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
  - a. The location, by street address, and specific latitude and longitude, of each land application site.
  - b. The approximate time period bulk biosolids will be applied to the site.
  - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
- 2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

#### E. Record Keeping Requirements

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

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

- 1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
- 2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
- 3. A description of how the vector attraction reduction requirements are met.
- 4. A description of how the management practices listed above in Section II.C are being met
- 5. The following certification statement:

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

- 6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative <u>indefinitely</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
  - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.
  - b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.
  - c. The number of acres in each site on which bulk biosolids are applied.
  - d. The date and time biosolids are applied to each site.

- e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
- f. The total amount of biosolids applied to each site in dry tons.

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

#### F. Reporting Requirements

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

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

- 14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
- 15. Vector attraction reduction alternative used as listed in Section I.B.4.
- 16. Amount of sludge or biosolids transported in dry tons/year.
- 17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
- 18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
  - a. The location, by street address, and specific latitude and longitude.
  - b. The number of acres in each site on which bulk biosolids are applied.
  - c. The date and time bulk biosolids are applied to each site.
  - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
  - e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge or biosolids meets the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge or biosolids and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.
- D. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 12) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

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

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

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

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

#### G. Reporting Requirements

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

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

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

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

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

#### A. General Requirements

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

#### **B.** Record Keeping Requirements

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

#### **C.** Reporting Requirements

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

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

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#### OTHER REQUIREMENTS

- 1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.
  - This Category C facility must be operated by a chief operator or an operator holding a Class C license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.
- 2. The facility is not located in the Coastal Management Program boundary.
- In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEO Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, 1/month may be reduced to 1/quarter. A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEO Wastewater Permitting Section (MC 148). The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.
- 4. This facility's plans and specifications were approved prior to March 1, 1990. Further, legal restrictions prohibit residential structures within the part of the buffer zone not owned by the permittee. Since no design change is requested, the facility will not be required to comply with the requirements 30 TAC § 309.13. See Attachment A.

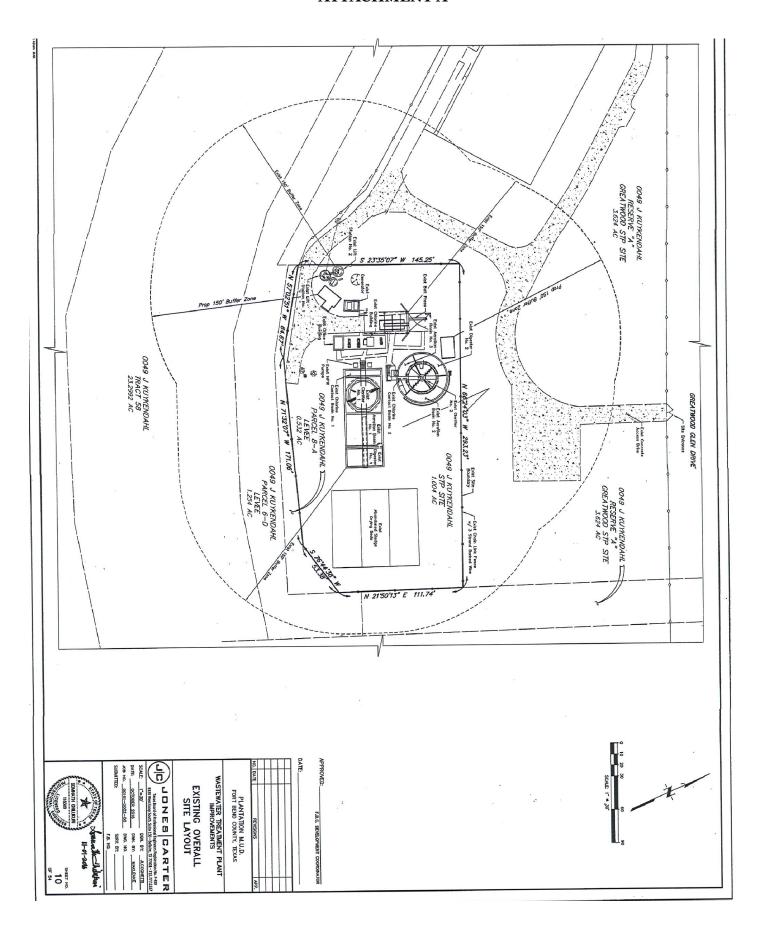
#### CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

- 1. The following pollutants may not be introduced into the treatment facility:
  - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;
  - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;
  - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;
  - d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand or BOD), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
  - e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;
  - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;
  - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
  - h. Any trucked or hauled pollutants except at discharge points designated by the POTW.
- 2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798].
- 3. The permittee shall provide adequate notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of either of the following:
  - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants; and
  - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

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

Revised July 2007

#### ATTACHMENT A



### STATEMENT OF BASIS/TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

#### **DESCRIPTION OF APPLICATION**

Applicant: Plantation Municipal Utility District

Texas Pollutant Discharge Elimination System (TPDES) Permit

No. WQ0011971001, EPA ID No. TX0076554

Regulated Activity: Domestic Wastewater Permit

Type of Application: Renewal

Request: Renewal with no changes

Authority: Federal Clean Water Act (CWA) § 402; Texas Water Code (TWC)

§ 26.027; 30 Texas Administrative Code (TAC) Chapters 30, 305, 307, 309, 312, and 319; Commission policies; and United States Environmental Protection Agency (EPA) guidelines.

#### EXECUTIVE DIRECTOR RECOMMENDATION

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

#### REASON FOR PROJECT PROPOSED

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at a daily average flow not to exceed 0.44 million gallons per day (MGD). The existing wastewater treatment facility serves Plantation Municipal Utility District (MUD), which consists of the Greatwood Knoll, Tara, and Tara Colony residential neighborhoods.

#### PROJECT DESCRIPTION AND LOCATION

The Plantation MUD Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode. Treatment units include two parallel treatment trains. Each train consists of one aeration basin, one clarifier, one chlorine contact chamber, and one aerobic digester. Train 2 includes an additional aeration basin. The two treatment trains share a headworks with bar screen and a sludge belt filter press. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at TCEQ-permitted landfill, Fort Bend Regional Landfill (Municipal Solid Waste Disposal Permit No. 2270) in Fort Bend County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The plant site is located at 1000 Greatwood Glen Drive, in the City of Sugar Land, Fort Bend County, Texas 77479.

#### **Outfall Location:**

Outfall Number	Latitude	Longitude	
001	29.546203 N	-95.687181 W	

The treated effluent is discharged to Rabbs Bayou, thence to a diversion channel, thence to Middle Bayou, thence to the Brazos River Below Navasota River in Segment No. 1202 of the Brazos River Basin. The unclassified receiving water use is limited aquatic life use for Rabbs Bayou. The designated uses for Segment No. 1202 are primary contact recreation, public water supply, and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water-quality limited streams as established in the Texas Surface Water Quality Standards (TSWQS) and the State of Texas Water Quality Management Plan (WQMP).

In a case such as this, end-of-pipe compliance with pH limits between 6.0 and 9.0 standard units reasonably assures instream compliance with the TSWQS for pH when the discharge authorized is from a minor facility. This technology-based approach reasonably assures instream compliance with TSWQS criteria due to the relatively smaller discharge volumes authorized by these permits. This conservative assumption is based on TCEQ sampling conducted throughout the state which indicates that instream buffering quickly restores pH levels to ambient conditions. Similarly, this approach has been historically applied within EPA issued NPDES general permits where technology-based pH limits were established to be protective of water quality criteria.

The effluent limitations in the draft permit have been reviewed for consistency with the WQMP. The proposed effluent limitations are contained in the approved WQMP.

The Houston toad (*Bufo houstonensis* Sanders), an endangered aquatic-dependent species of critical concern, occurs within the Segment No. 1202's watershed as well as the 12070104 United States Geological Survey hydrologic unit code. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998, October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only consider aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. Species distribution information for the Segment No. 1202 watershed is provided by the USFWS and documents the toad's presence solely in the vicinity of Deep Creek in Austin County, which is farther up the watershed from the facility associated with this permit action. Based upon this information, it is determined that the facility's discharge is not expected to impact the Houston toad. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1202 is not currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list).

Plantation Municipal Utility District
TPDES Permit No. WQ0011971001
Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

#### SUMMARY OF EFFLUENT DATA

The following is a summary of the applicant's effluent monitoring data for the period February 2022 through February 2024. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ( $CBOD_5$ ), total suspended solids (TSS), and ammonia nitrogen ( $NH_3$ -N). The average of Daily Average value for *Escherichia coli* in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

<u>Parameter</u>	<u>Average of Daily Average</u>
Flow, MGD	0.22
CBOD <sub>5</sub> , mg/l	3.1
TSS, mg/l	4.2
NH <sub>3</sub> -N, mg/l	0.28
E. coli, CFU or MPN per 100 ml	1

#### DRAFT PERMIT CONDITIONS

The draft permit authorizes a discharge of treated domestic wastewater at a volume not to exceed a daily average flow of 0.44 MGD.

The effluent limitations in the draft permit, based on a 30-day average, are 10 mg/l CBOD<sub>5</sub>, 15 mg/l TSS, 3.0 mg/l NH<sub>3</sub>-N, 126 CFU or MPN of E. coli per 100 ml, and 6.0 mg/l minimum dissolved oxygen (DO). The effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes based on peak flow.

The facility does not appear to receive significant industrial wastewater contributions. Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305 which references 40 CFR Part 403, General Pretreatment Regulations for Existing and New Sources of Pollution [rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798]. The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at TCEQ-permitted landfill, Fort Bend Regional Landfill, Municipal Solid Waste Disposal Permit No. 2270 in Fort Bend County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

#### SUMMARY OF CHANGES FROM APPLICATION

None.

Plantation Municipal Utility District
TPDES Permit No. WQ0011971001
Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

#### SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit requirements.

The permittee's mailing address has been updated per the information provided in the application. The suite number has been revised to Suite 2400.

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

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

The draft permit includes all updates based on the 30 TAC Chapter 312 rule change effective April 23, 2020.

Other Requirement No. 4 has been added to the draft permit to record that the plans and specifications for the facility were approved prior to March 1, 1990 and therefore the facility is not subject to 30 TAC §309.13.

#### BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

- 1. Application received on February 29, 2024.
- 2. TPDES Permit No. WQ0011971001 issued on September 10, 2019.
- 3. The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.
- 4. The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.
- 5. Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.
- 6. Consistency with the Coastal Management Plan: The facility is not located in the Coastal Management Program boundary.

Plantation Municipal Utility District TPDES Permit No. WQ0011971001

Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

- 7. Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by EPA, and the IP, January 2003, for portions of the 2010 IP not approved by EPA.
- 8. Texas 2022 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 1, 2022; approved by the U.S. Environmental Protection Agency on July 7, 2022.
- Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

#### PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application, and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment, and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

Plantation Municipal Utility District TPDES Permit No. WQ0011971001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Sarah A. Johnson, Ph.D. at (512) 239-4649.

Sarah H. Johnson
Sarah A. Johnson, Ph.D.

June 25, 2024

Date

Municipal Permits Team

Wastewater Permitting Section (MC 148)

# TCFQ

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: <u>Plantation Municipal Utility District</u>

PERMIT NUMBER: WQ0011971001

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

	Y	N		$\mathbf{Y}$	N
Administrative Report 1.0	$\boxtimes$		Original USGS Map		
Administrative Report 1.1		$\boxtimes$	Affected Landowners Map		$\boxtimes$
SPIF	$\boxtimes$		Landowner Disk or Labels		$\boxtimes$
Core Data Form	$\boxtimes$		Buffer Zone Map		$\boxtimes$
Public Involvement Plan Form		$\boxtimes$	Flow Diagram	$\boxtimes$	
Technical Report 1.0	$\boxtimes$		Site Drawing	$\boxtimes$	
Technical Report 1.1		$\boxtimes$	Original Photographs		$\boxtimes$
Worksheet 2.0	$\boxtimes$		<b>Design Calculations</b>	$\boxtimes$	
Worksheet 2.1		$\boxtimes$	Solids Management Plan		$\boxtimes$
Worksheet 3.0		$\boxtimes$	Water Balance		$\boxtimes$
Worksheet 3.1		$\boxtimes$			
Worksheet 3.2		$\boxtimes$			
Worksheet 3.3		$\boxtimes$			
Worksheet 4.0		$\boxtimes$			
Worksheet 5.0		$\boxtimes$			
Worksheet 6.0	$\boxtimes$				
Worksheet 7.0		$\boxtimes$			

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



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

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

#### Section 1. Application Fees (Instructions Page 29)

Indicate the amount submitted for the application fee (check only one).				
Flow	New/Major Amen	dment	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 \( \square\)		\$1,215.00	
≥0.50 but <1.0 MGD ≥1.0 MGD	\$1,650.00 □ \$2,050.00 □		\$1,615.00 □ \$2,015.00 □	
Minor Amendment (for any flov	v) \$150.00 🗆			
Payment Information:				
Mailed Check/Mon	ey Order Number:		enter text.	
Check/Mon	ey Order Amount: <u>\$</u>	1,215.00		
Name Print	ed on Check:		text.	
EPAY Voucher Nu	ımber:	enter text.		
Copy of Payment Vouche	er enclosed?	Yes □		
Section 2. Type of Appli	cation (Instruct	ions Page	29)	
□ New TPDES				
☐ Major Amendment <u>with</u> Re	newal	Minor An	nendment <u>with</u> Renewal	
☐ Major Amendment <u>without</u>	Renewal	Minor An	nendment <u>without</u> Renewal	
⊠ Renewal without changes		Minor Mo	odification of permit	
For amendments or modifications, describe the proposed changes:				
For existing permits:				
Permit Number: WQ00 <u>1197100</u>	<u>l</u>			
EPA I.D. (TPDES only): TX <u>00765</u>	<u>54</u>			

Expiration Date: 9/10/2024

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

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

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

Plantation Municipal Utility District

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

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

CN: 600627731

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

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

First and Last Name: Jody Ricco

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

Title: President, Plantation MUD

**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?

(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: <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a>

CN: Click here to enter t

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

Prefix (Mr., Ms., Miss):

First and Last Name:

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

Title

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

#### C. Core Data Form

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

**Attachment:** See Attachment A

#### Section 4. Application Contact Information (Instructions Page 30)

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

A. Prefix (Mr., Ms., Miss): Mr. First and Last Name: Steve Barry Credential (P.E, P.G., Ph.D., etc.): P.E Title: Permit Engineer Organization Name: Quiddity Engineering Mailing Address: <u>1575 Sawdust Road, Suite 400</u> City, State, Zip Code: The Woodlands, TX 77380 Phone No.: 281-363-4039 Ext.: Fax No.: E-mail Address: sbarry@quiddity.com Check one or both:  $\boxtimes$ Administrative Contact **Technical Contact B.** Prefix (Mr., Ms., Miss): Mr. First and Last Name: Jonathan Nguyen Credential (P.E, P.G., Ph.D., etc.): Title: Permitting Specialist Organization Name: Quiddity Engineering Mailing Address: 3100 Alvin Devane Blvd., Suite 150 City, State, Zip Code: Austin, TX 78741 Phone No.: <u>512-685-5156</u> Ext.: Fax No.: E-mail Address: <a href="mailto:jnguyen@quiddity.com">jnguyen@quiddity.com</a> Check one or both:  $\boxtimes$ Administrative Contact Technical Contact

#### Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: Jody Ricco

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

Title: President

Organization Name: Plantation MUD

Mailing Address: 1300 Post Oak Blvd., Suite 2400

City, State, Zip Code: Houston, TX 77056

Phone No.: <u>713-623-4531</u> Ext.: Fax No.:

E-mail Address: <a href="mailto:ccole@sphllp.com">ccole@sphllp.com</a>

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

First and Last Name: Kathy Curtis

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

Title: <u>Vice-President</u>

Organization Name: Plantation MUD

Mailing Address: 1300 Post Oak Blvd., Suite 2400

City, State, Zip Code: Houston, TX 77056

Phone No.: <u>713-623-4531</u> Ext.: Fax No.:

E-mail Address: <a href="mailto:ccole@sphllp.com">ccole@sphllp.com</a>

#### Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: Michelle Harris

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

Title: <u>Bookkeeper</u>

Organization Name: Municipal Accounts & Consulting, L.P.

Mailing Address: <u>1281 Brittmoore Road</u>
City, State, Zip Code: Houston, TX 77043

Phone No.: 713-623-4539 Ext.: Fax No.:

E-mail Address: <a href="mailto:mharris@municipalaccounts.com">mharris@municipalaccounts.com</a>

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

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

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

First and Last Name: Breah Campbell

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

Title: Click here to enter

Organization Name: <u>Si Environmental</u> Mailing Address: <u>6420 Reading Road</u>

City, State, Zip Code: Rosenberg, TX 77471

Phone No.: <u>346-770-1403</u> Ext.: Fax No.:

E-mail Address: <u>bcampbell@sienviro.com</u>

DMR data is required to be submitted electronically. Create an account at:

https://www.tceq.texas.gov/permitting/netdmr/netdmr.html.

#### Section 8. Public Notice Information (Instructions Page 31)

#### A. Individual Publishing the Notices

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

First and Last Name: Jonathan Nguyen

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

Title: Permitting Specialist

Organization Name: **Quiddity Engineering** 

Mailing Address: 3100 Alvin Devane Blvd., Suite 150

City, State, Zip Code: Austin, TX 78741

Phone No.: <u>512-685-5156</u> Ext.: Fax No.:

E-mail Address: jnguyen@quiddity.com

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

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

□ Fax

☐ Regular Mail

#### C. Contact person to be listed in the Notices

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

First and Last Name: Jonathan Nguyen

	Credential (P.E, P.G., Ph.D., etc.):
	Title: Permitting Specialist
	Organization Name: Quiddity Engineering
	Phone No.: <u>512-685-5156</u> Ext.:
	E-mail: nguyen@quiddity.com
D.	Public Viewing Information
	If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.
	Public building name: <u>University Branch Library</u>
	Location within the building: <u>Reference Desk</u>
	Physical Address of Building: <u>14010 University Blvd.</u>
	City: <u>Sugar Land, TX 77479</u> County: <u>Fort Bend</u>
	Contact Name: <u>Elizabeth Bullard</u>
	Phone No.: <u>832-471-2461</u> Ext.:
E.	Bilingual Notice Requirements:
	This information is required for new, major amendment, minor amendment or
	minor modification, and renewal applications.
	This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.
	be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.  Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are
	be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.  Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and
	be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.  Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.  1. Is a bilingual education program required by the Texas Education Code at the
	<ul> <li>be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.</li> <li>Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.</li> <li>1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?</li> </ul>
	<ul> <li>be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.</li> <li>Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.</li> <li>1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?</li> <li>Xes</li> <li>No</li> <li>If no, publication of an alternative language notice is not required; skip to Section 9</li> </ul>
	be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.  Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.  1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?  Yes No  If no, publication of an alternative language notice is not required; skip to Section 9 below.  2. Are the students who attend either the elementary school or the middle school enrolled in
	be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.  Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.  1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?  Yes  No  If no, publication of an alternative language notice is not required; skip to Section 9 below.  2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?
	be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.  Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.  1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?  ✓ Yes ✓ No  If no, publication of an alternative language notice is not required; skip to Section 9 below.  2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?  ✓ Yes ✓ No  3. Do the students at these schools attend a bilingual education program at another

	4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?
	□ Yes ⊠ No
	5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish
F.	Public Involvement Plan Form
	Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a <b>new permit or major amendment to a permit</b> and include as an attachment.
	Attachment: N/A
Se	ection 9. Regulated Entity and Permitted Site Information (Instructions Page 33)
Α.	If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. $RN102915634$
	Search the TCEQ's Central Registry at <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a> to determine if the site is currently regulated by TCEQ.
В.	Name of project or site (the name known by the community where located):
	<u>Plantation MUD Wastewater Treatment Plant</u>
C.	Owner of treatment facility: <u>Plantation MUD</u>
	Ownership of Facility: $oxtimes$ Public $oxtimes$ Private $oxtimes$ Both $oxtimes$ Federal
D.	Owner of land where treatment facility is or will be:
	Prefix (Mr., Ms., Miss):
	First and Last Name: <u>Plantation MUD</u>
	Mailing Address: <u>1300 Post Oak Blvd.</u> , <u>Suite 2400</u>
	City, State, Zip Code: <u>Houston, TX 77056</u>
	Phone No.: 713-623-4531 E-mail Address: ccole@sphllp.com
	If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.
	Attachment: <u>N/A</u>
Ε.	Owner of effluent disposal site:
	Prefix (Mr., Ms., Miss):
	First and Last Name: <u>N/A</u>
	Mailing Address:
	City, State, Zip Code:

	Phone No.: E-mail Ad	dress:
	If the landowner is not the same person as the agreement or deed recorded easement. See inst	•
	Attachment: <u>N/A</u>	
F.	F. Owner of sewage sludge disposal site (if author property owned or controlled by the applicant)	
	Prefix (Mr., Ms., Miss):	
	First and Last Name: <u>N/A</u>	
	Mailing Address:	
	City, State, Zip Code:	
	Phone No.: E-mail Ad	dress:
	If the landowner is not the same person as the agreement or deed recorded easement. See ins	•
	Attachment:	
Se	Section 10. TPDES Discharge Informat	ion (Instructions Page 34)
	<b>A.</b> Is the wastewater treatment facility location in	
	⊠ Yes □ No	
	If <b>no, or a new permit application</b> , please give	an accurate description:
	Click here to enter text.	
В.	<b>B.</b> Are the point(s) of discharge and the discharge	route(s) in the existing permit correct?
	⊠ Yes □ No	
	If <b>no</b> , <b>or a new or amendment permit applicat</b> point of discharge and the discharge route to t	
	30 TAC Chapter 307:	ne nearest classified segment as defined in
	Click here to enter text.	
	City nearest the outfall(s): Richmond, TX	
	County in which the outfalls(s) is/are located: <u>l</u>	<u>Fort Bend</u>
	Outfall Latitude: 29.545428 Lor	ngitude: <u>-95.687163</u>
C.	C. Is or will the treated wastewater discharge to a or a flood control district drainage ditch?	city, county, or state highway right-of-way,

	□ Yes ⊠ No		
	If <b>yes</b> , indicate by a check mark if:		
	$\square$ Authorization granted $\square$ Authorization pending		
	For <b>new and amendment</b> applications, provide copies of letters that show proof of contact and the approval letter upon receipt.		
	Attachment: Makalana and Attachment:		
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		
Se	ction 11. TLAP Disposal Information (Instructions Page 36)		
A.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?		
	□ Yes □ No		
	If <b>no, or a new or amendment permit application</b> , provide an accurate description of the disposal site location:		
	N/A		
B.	City nearest the disposal site: <u>N/A</u>		
C.	County in which the disposal site is located: $N/A$		
D.	Disposal Site Latitude: <u>N/A</u> Longitude: <u>N/A</u>		
E.	For <b>TLAPs</b> , describe the routing of effluent from the treatment facility to the disposal site:		
	N/A		
F.	For <b>TLAPs</b> , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:		
	N/A		

#### Section 12. Miscellaneous Information (Instructions Page 37)

A. Is the facility located on or does the treated effluent cross American Indian Land?

	□ Yes ⊠ No
B.	If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?
	□ Yes □ No ⊠ Not Applicable
	If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.
	Click here to enter text.
C.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
	⊠ Yes □ No
	If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:
	<u>Jonathan Nguyen</u>
D.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If <b>yes</b> , provide the following information:
	Account number: Amount past due:
F.,	Do you owe any penalties to the TCEQ?
	☐ Yes ☑ No
	If <b>yes</b> , please provide the following information:
	Enforcement order number:  Amount past due:
	enter text

#### **Section** 13. Attachments (Instructions Page 38)

Indicate which attachments are included with the Administrative Report. Check all that apply:

- Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- ☑ Original full-size USGS Topographic Map with the following information:
  - Applicant's property boundary

- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.
- $\square$  Attachment 1 for Individuals as co-applicants
- ☑ Other Attachments. Please specify: <u>See Attachment List</u>

#### Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WQ0011971001

Applicant: Plantation MUD

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): <u>Judy Ricco</u>
Signatory title: <u>President, Plantation MUD</u>
Signature:
Subscribed and Sworn to before me by the said Jody Ricco
TROUTING THE TAXABLE TO THE TAXABLE
on this day of February, 2024.  My commission expires on the 27th day of Twile, 2027.
Mustina Coh Notary Public [SEAL]
CHRISTINA COLE NOTARY ID #12462526-3 My Commission Expires June 27, 2027

#### Section 14. Signature Page (Instructions Page 39)

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

Permit Number: <u>WQ0011971001</u>

Signatory name (typed or printed): Judy Ricco

Applicant: Plantation MUD

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 title: <u>President, Plantation</u>	MUD	
Signature:	Date	<u>.                                    </u>
(Use blue ink)		
Subscribed and Sworn to before me b	oy the said	
on thisda	y of	, 20
My commission expires on the	day of	, 20
Notary Public		[SEAL]
County, Texas		

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

## FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:	
Application type:RenewalMajor An	nendmentNinor 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 application	ns only. (Instructions, Page 53)
The SPIF must be completed as a separate docu each agency as required by the TCEQ agreemen addressed or further information is needed, you before the permit is issued. Each item must be	t with EPA. If any of the items are not completely u will be contacted to provide the information
be provided with this form separately from the	permit application form. Each attachment must administrative report of the application. The y complete without this form being completed in
The following applies to all applications:	
1. Permittee: <u>Plantation MUD</u>	
Permit No. WQ00 <u>11971001</u>	EPA ID No. TX <u>0076554</u>
Address of the project (or a location descrip and county):	otion that includes street/highway, city/vicinity,
1000 Greatwood Glen Drive, Fort Bend Cou	nty, TX

answer specific questions about the property.
Prefix (Mr., Ms., Miss): Mr.
First and Last Name: <u>Jonathan Nguyen</u>
Credential (P.E, P.G., Ph.D., etc.):
Title: Permitting Specialist
Mailing Address: 3100 Alvin Devane Blvd., Suite 150
City, State, Zip Code: Austin, TX 78714
Phone No.: <u>512-685-5156</u> Ext.: Fax No.:
E-mail Address: jnguyen@quiddity.com
List the county in which the facility is located: <u>Fort Bend</u>
If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.
The permittee is the property owner
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.
Discharge is to Rabbs Bayou; thence to a diversion channel; thence to Middle Bayou; thence
to Brazos River Below Navasota River in Segment No 1202 of the Brazos River Basin
Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).
Provide original photographs of any structures 50 years or older on the property.
Does your project involve any of the following? Check all that apply.
☐ Proposed access roads, utility lines, construction easements
☐ Visual effects that could damage or detract from a historic property's integrity
☐ Vibration effects during construction or as a result of project design
☐ Additional phases of development that are planned for the future
☐ Sealing caves, fractures, sinkholes, other karst features

Provide the name, address, phone and fax number of an individual that can be contacted to

2.3.

4.

5.

	☐ Disturbance of vegetation or wetlands
6.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
	There is no proposed future construction at the site
7.	Describe existing disturbances, vegetation, and land use:
	Ther land use is as a wastewater treatment plant site
	HE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR MENDMENTS TO TPDES PERMITS
8.	List construction dates of all buildings and structures on the property:
9.	Provide a brief history of the property, and name of the architect/builder, if known.
	Click here to enter text



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY **DOMESTIC WASTEWATER PERMIT APPLICATION**

## **DOMESTIC TECHNICAL REPORT 1.0**

The Following Is Required For All Applications Renewal, New, And Amendment

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

A. Existing/Interim I Phase
Design Flow (MGD): <u>0.44</u>
2-Hr Peak Flow (MGD): <u>1.76</u>
Estimated construction start date:
Estimated waste disposal start date:
B. Interim II Phase
Design Flow (MGD):
2-Hr Peak Flow (MGD):
Estimated construction start date:
Estimated waste disposal start date:
C. Final Phase
Design Flow (MGD):
2-Hr Peak Flow (MGD): <u></u>
Estimated construction start date:
Estimated waste disposal start date:
<b>D. Current operating phase:</b> <u>0.44 MGD</u> Provide the startup date of the facility: <u>1991</u>

## Section 2. Treatment Process (Instructions Page 51)

#### A. Treatment process description

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

**treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed in the permit, a description of** *each phase* **must be provided**. Process description:

The plant consists of two single stage nitrification activated sludge plants operated in parallel. Effluent is disinfected using chlorine gas. Waste sludge is aerobically digested prior to being dewatered and hauled to a landfill.

Port or pipe diameter at the discharge point, in inches: <u>18</u>

#### **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.

Treatment Unit Type Number of Units

See attachment D

Dimensions (L x W x D)

Units

Table 1.0(1) - Treatment Units

#### C. Process flow diagrams

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

**Attachment**: See Attachment E

#### Section 3. Site Drawing (Instructions Page 52)

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

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

Attachment: See Attachment F

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

The plant serves Plantation MUD (Greatwood Knoll, Tara, and Tara Colony)
Section 4. Unbuilt Phases (Instructions Page 52)
Is the application for a renewal of a permit that contains an unbuilt phase or
phases?
Yes □ No ⊠
If yes, does the existing permit contain a phase that has not been constructed within five years of being authorized by the TCEQ? Yes $\square$ No $\square$
If yes, provide a detailed discussion regarding the continued need for the unbuilt phase. Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases.
Click here to enter text

Section 5. Closure Plans (instructions Page 53)
Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?  Yes $\square$ No $\boxtimes$
<b>f</b> yes, was a closure plan submitted to the TCEQ?
Yes □ No □
<b>f yes</b> , provide a brief description of the closure and the date of plan approval.
Click here to enter text
Section 6. Permit Specific Requirements (Instructions Page 53)
For applicants with an existing permit, check the <i>Other Requirements</i> or <i>Special Provisions</i> of the permit.
A. Summary transmittal
Have plans and specifications been approved for the existing facilities and each proposed phase? Yes $\boxtimes$ No $\square$
If yes, provide the date(s) of approval for each phase: 1990
Provide information, including dates, on any actions taken to meet a requirement or provision pertaining to the submission of a summary transmittal letter. Provide a copy of an approval letter from the TCEQ, if applicable.
N/A
B. Buffer zones
Have the buffer zone requirements been met?  Yes ⊠ No □
Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

The plant was built prior to buffer zone requirements. No further action.
C. Other actions required by the current permit
Does the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.  Yes $\square$ No $\boxtimes$
<b>If yes</b> , provide information below on the status of any actions taken to meet the conditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
N/A

#### D. Grit and grease treatment

### 1. Acceptance of grit and grease waste

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

Yes □ No ⊠

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

#### 2. Grit and grease processing

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

Click here to enter text.
3. Grit disposal
Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?  Yes  No
<b>If No</b> , contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.
Describe the method of grit disposal.
4. Grease and decanted liquid disposal
Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.
Describe how the decant and grease are treated and disposed of after grit separation.
Click here to enter text.
E. Stormwater management
1. Applicability
Does the facility have a design flow of 1.0 MGD or greater in any phase? Yes $\square$ No $\boxtimes$
Does the facility have an approved pretreatment program, under 40 CFR Part 403?

Yes □	No ⊠
If no to both o	of the above, then skip to Subsection F, Other Wastes
2. MSGP co	verage
	ater runoff from the WWTP and dedicated lands for sewage ntly permitted under the TPDES Multi-Sector General Permit 50000? No □
<b>If yes</b> , please of Other Wastes	provide MSGP Authorization Number and skip to Subsection F, Received:
TXR05	k here to enter text or TXRNE Click here to enter text.
<b>If no</b> , do you i	ntend to seek coverage under TXR050000?
Yes □	No □
3. Condition	nal exclusion
permitting bas	do you intend to apply for a conditional exclusion from sed TXR050000 (Multi Sector General Permit) Part II B.2 or fulti Sector General Permit) Part V, Sector T 3(b)?  No   No   Output  Description:
<b>If yes</b> , please	explain below then proceed to Subsection F, Other Wastes
Received:	
Click here to	enter text.
4. Existing of	coverage in individual permit
Is your stormy TPDES or TLAN Yes □	water discharge currently permitted through this individual P permit?  No   No   O
	e a description of stormwater runoff management practices at re authorized in the wastewater permit then skip to Subsection es Received.

Click here to enter fext.
5. Zero stormwater discharge
Do you intend to have no discharge of stormwater via use of evaporation or other means? Yes $\square$ No $\square$
If yes, explain below then skip to Subsection F. Other Wastes Received.

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

## 6. Request for coverage in individual permit

Are you requesting o	coverage of stormwa	ter discharges	associated	with your
treatment plant und	er this individual per	rmit?		

Yes □ No □

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

Click here to enter text
Note: Direct stormwater discharges to waters in the state authorized
through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F. Discharges to the Lake Houston Watershed
Does the facility discharge in the Lake Houston watershed? Yes $\square$ No $\boxtimes$
If yes, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.
G. Other wastes received including sludge from other WWTPs and septic waste
1. Acceptance of sludge from other WWTPs
Does the facility accept or will it accept sludge from other treatment plants at the facility site? Yes $\square$ No $\boxtimes$
If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.
In addition, provide the date that the plant started accepting sludge or is anticipated to start accepting sludge, an estimate of monthly sludge
acceptance (gallons or millions of gallons), an estimate of the BOD <sub>5</sub>
concentration of the sludge, and the design BOD <sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
Click here to enter text

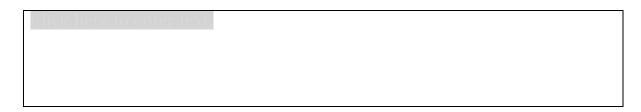
Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

2. Acceptance of septic waste
Is the facility accepting or will it accept septic waste?
Yes □ No ⊠
If yes, does the facility have a Type V processing unit?
Yes □ No ⊠
If yes, does the unit have a Municipal Solid Waste permit?
Yes □ No ⊠
If yes to any of the above, provide a the date that the plant started accepting septic waste, or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
3. Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)
Is the facility accepting or will it accept wastes that are not domestic in nature excluding the categories listed above?

**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.

No ⊠

Yes □



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

Is the facility in operation? Yes  $\boxtimes$  No  $\square$ 

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

**If yes**, provide effluent analysis data for the listed pollutants. *Wastewater treatment facilities* complete Table 1.0(2). *Water treatment facilities* discharging filter backwash water, complete Table 1.0(3).

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

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

Pollutant	Average	Max	No. of	Sample	Sample
ronutant	Conc.	Conc.	Samples	Type	Date/Time
CBOD <sub>5</sub> , mg/l	3.3	3.3	1	Grab	1-3-24/1400
Total Suspended Solids, mg/l	3.8	3.8	1	Grab	11-29-23/0810
Ammonia Nitrogen, mg/l	< 0.20	< 0.20	1	Grab	11-29-23/0810
Nitrate Nitrogen, mg/l	5.92	5.92	1	Grab	11-29-23/0810
Total Kjeldahl Nitrogen, mg/l	1.5	1.5	1	Grab	11-29-23/0810
Sulfate, mg/l	38.2	38.2	1	Grab	11-29-23/0810
Chloride, mg/l	40	40	1	Grab	1-3-24/1400
Total Phosphorus, mg/l	0.18	0.18	1	Grab	1-3-24/1400
pH, standard units	7.59	7.59	1	Grab	11-29-23/0810
Dissolved Oxygen*, mg/l	7.30	7.30	1	Grab	11-29-23/0810
Chlorine Residual, mg/l	2.5	2.5	1	Grab	11-29-23/0810
E.coli (CFU/100ml) freshwater	6	6	1	Grab	11-29-23/0810
Entercocci (CFU/100ml)	< 1	< 1	1	Grab	11-29-23/0810

Pollutant	Average	Max	No. of	Sample	Sample
Tonutant	Conc.	Conc.	Samples	Type	Date/Time
saltwater					
Total Dissolved Solids, mg/l	456	456	1	Grab	11-29-23/0810
Electrical Conductivity,	N/A	N/A	N/A	N/A	N/A
μmohs/cm, †					
Oil & Grease, mg/l	< 5	< 5	1	Grab	11-29-23/0810
Alkalinity (CaCO <sub>3</sub> )*, mg/l	165	165	1	Grab	11-29-23/0810

<sup>\*</sup>TPDES permits only

†TLAP permits only

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

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

## Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Si Environmental

Facility Operator's License Classification and Level:

Facility Operator's License Number: OC0000178

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

#### A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the

followi	ng list. Check all that apply.
$\boxtimes$	Permitted landfill
$\boxtimes$	Permitted or Registered land application site for beneficial use
	Land application for beneficial use authorized in the wastewater permit
	Permitted sludge processing facility
	Marketing and distribution as authorized in the wastewater permit
	Composting as authorized in the wastewater permit
	Permitted surface disposal site (sludge monofill)
	Surface disposal site (sludge monofill) authorized in the wastewater
	permit
	Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.
	Other: Mak here to enter text.
В. 9	Sludge disposal site
Dispos	al site name: <u>Fort Bend Regional Landfill</u>
TCEQ 1	permit or registration number: <u>2270</u>
County	where disposal site is located: <u>Fort Bend</u>
C. 9	Sludge transportation method
Method	d of transportation (truck, train, pipe, other): <u>Truck</u>
Name o	of the hauler: <u>GFL</u>
Hauler	registration number: <u>25978</u>
Sludge	is transported as a:
I	Liquid □ semi-liquid □ semi-solid ⊠ solid □

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

#### A. Beneficial use authorization

Does the existing permit include authorization for sludge for beneficial use?  Yes □ No ☒	for land app	lication of sewage
If yes, are you requesting to continue this authorsludge for beneficial use?  Yes □ No □	orization to	land apply sewage
If yes, is the completed <b>Application for Permit Sewage Sludge (TCEQ Form No. 10451)</b> attached the instructions for details)?  Yes □ No □		
B. Sludge processing authorization		
Does the existing permit include authorization f processing, storage or disposal options?	for any of th	ne following sludge
Sludge Composting	Yes □	No ⊠
Marketing and Distribution of sludge	Yes □	No 🗵
Sludge Surface Disposal or Sludge Monofill	Yes □	No 🗵
Temporary storage in sludge lagoons	Yes □	No 🗵
If yes to any of the above sludge options and the continue this authorization, is the completed De Application: Sewage Sludge Technical Report (attached to this permit application?  Yes □ No □	omestic Was	stewater Permit
Section 11. Sewage Sludge Lagoons	(Instructio	ons Page 61)
Does this facility include sewage sludge lago	oons?	
Yes □ No ⊠		
If yes, complete the remainder of this section	n. If no, pro	ceed to Section 12.

## A. Location information

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

<ul> <li>Original General Highway (County) Map:</li> </ul>
Attachment: Click here to enter text
<ul> <li>USDA Natural Resources Conservation Service Soil Map:</li> </ul>
Attachment: Click here to enter text
• Federal Emergency Management Map:
Attachment: Click here to enter text
• Site map:
Attachment: Mick have to enter the time.
Discuss in a description if any of the following exist within the lagoon area.
Check all that apply.
<ul><li>Overlap a designated 100-year frequency flood plain</li><li>Soils with flooding classification</li></ul>
☐ Overlap an unstable area
☐ Wetlands
□ Located less than 60 meters from a fault
□ None of the above
Attachment: Mak here to enter text
If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:
B. Temporary storage information  Provide the results for the pollutant screening of sludge lagoons. These results
are in addition to pollutant results in Section 7 of Technical Report 1.0.  Nitrate Nitrogen, mg/kg:
Total Kjeldahl Nitrogen, mg/kg:
Total Nitrogen (=nitrate nitrogen + TKN), mg/kg:
Phosphorus, mg/kg:

Potassium, mg/kg:
pH, standard units:
Ammonia Nitrogen mg/kg:
Arsenic: Mak here to enter text
Cadmium: Click here to enter text.
Chromium: Click here to enter text.
Copper: Click here to enter text
Lead: Click here to enter text
Mercury: Click here to enter text
Molybdenum: Make the enter text
Nickel: Click here to enter text
Selenium: Nick here to enter text
Zinc: Click here to enter text.
Total PCBs: Mak here to enter text
Provide the following information:  Volume and frequency of sludge to the lagoon(s):
Total dry tons stored in the lagoons(s) per 365-day period:
Total dry tons stored in the lagoons(s) over the life of the unit:
C. Liner information
Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^7$ cm/sec? Yes $\square$ No $\square$
If yes, describe the liner below. Please note that a liner is required.
Click here to enter text.

## D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the

lagoon(s):
Click here to enter text.
Attach the following documents to the application.
<ul> <li>Plan view and cross-section of the sludge lagoon(s)</li> </ul>
Attachment: Lick here to enter text.
<ul> <li>Copy of the closure plan</li> </ul>
Attachment: Click here to enter text.
<ul> <li>Copy of deed recordation for the site</li> </ul>
Attachment: Makhere to enter text
<ul> <li>Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons</li> </ul>
Attachment: Makhere to enter text
• Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment: Makhere to enter text
<ul> <li>Procedures to prevent the occurrence of nuisance conditions</li> </ul>
Attachment: Mck here to enter text
E. Groundwater monitoring
Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?  Yes  No
If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.
Attachment: Click here to enter text

## Section 12. Authorizations/Compliance/Enforcement

### (Instructions Page 63)

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?  Yes □ No ☒  If yes, provide the TCEQ authorization number and description of the authorization:  B. Permittee enforcement status  Is the permittee currently under enforcement for this facility?  Yes □ No ☒  Is the permittee required to meet an implementation schedule for compliance or enforcement?  Yes □ No ☒  If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:  Section 13. RCRA/CERCLA Wastes (Instructions Page 63)	A. Additional authorizations
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:	reuse authorization, sludge permit, etc?
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:	
Is the permittee currently under enforcement for this facility?  Yes □ No ☒  Is the permittee required to meet an implementation schedule for compliance or enforcement?  Yes □ No ☒  If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:	Click here to enter text.
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:	B. Permittee enforcement status
or enforcement? Yes No No If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:	Is the permittee currently under enforcement for this facility? Yes $\square$ No $\boxtimes$
implementation schedule, and the current status:	or enforcement?
Section 13. RCRA/CERCLA Wastes (Instructions Page 63)	
Section 13. RCRA/CERCLA Wastes (Instructions Page 63)	Click here to enter text
	Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

#### A. RCRA hazardous wastes

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

Yes □ No ⊠

### B. Remediation activity wastewater

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

Yes □ No ⊠

## C. Details about wastes received

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

Attachment:	Click here to en	
1 ICCCCITITICITC		

#### Section 14. Laboratory Accreditation (Instructions Page 64)

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

- The laboratory is an in-house laboratory and is:
  - o periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - 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:**

Printed Name: Jody Ricco

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

Title: <u>President, Plantation MUD</u>	
Signature:	
Date:	

#### Section 14. Laboratory Accreditation (Instructions Page 64)

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

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

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

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

#### CERTIFICATION:

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

Printed Name: <u>Jody Ricco</u>

Title: President, Plantation MUD

Signature:

Date:

## **DOMESTIC TECHNICAL REPORT WORKSHEET 2.0**

#### **RECEIVING WATERS**

The following is required for all TPDES permit applications

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

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?  Yes  No				
<b>If yes</b> , provide the following: Owner of the drinking water supply:				
Distance and direction to the intake:				
Attach a USGS map that identifies the location of the intake.				
Attachment: Mick here to enter text.				
Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)  Does the facility discharge into tidally affected waters?				
Yes $\square$ No $\boxtimes$ If yes, complete the remainder of this section. If no, proceed to Section 3.				
A. Receiving water outfall Width of the receiving water at the outfall, in feet:				
B. Oyster waters  Are there oyster waters in the vicinity of the discharge?  Yes No I  If yes, provide the distance and direction from outfall(s).				

C. Se	ea grasses
Are	there any sea grasses within the vicinity of the point of discharge?
	Yes □ No □
If ye	es, provide the distance and direction from the outfall(s).
	ck here to enter text.
Section	n 3. Classified Segments (Instructions Page 73)
	ischarge directly into (or within 300 feet of) a classified segment?
	Yes □ No ⊠
If yes, t	his Worksheet is complete.
_	omplete Sections 4 and 5 of this Worksheet.
	n 4. Description of Immediate Receiving Waters
	nstructions Page 75) ne of the immediate receiving waters: Rabbs Bayou
A. R	eceiving water type
Iden	tify the appropriate description of the receiving waters.
$\boxtimes$	Stream
	Freshwater Swamp or Marsh
	Lake or Pond
	Surface area, in acres:
	Average depth of the entire water body, in feet:
	Average depth of water body within a 500-foot radius of discharge point, in feet:
	Man-made Channel or Ditch

	Open Bay
	Tidal Stream, Bayou, or Marsh
	Other, specify: Wild have to enter the state of the state
B. Fl	ow characteristics
followin characte	am, man-made channel or ditch was checked above, provide the ag. For existing discharges, check one of the following that best erizes the area <i>upstream</i> of the discharge. For new discharges, erize the area <i>downstream</i> of the discharge (check one).  Intermittent - dry for at least one week during most years
	Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
	Perennial - normally flowing
	he method used to characterize the area upstream (or downstream for chargers). USGS flow records
	Historical observation by adjacent landowners
$\boxtimes$	Personal observation
	Other, specify: Click here to enter text
C. D	ownstream perennial confluences
	names of all perennial streams that join the receiving water within
	iles downstream of the discharge point. Idle Bayou
D. D	ownstream characteristics
	receiving water characteristics change within three miles downstream of harge (e.g., natural or man-made dams, ponds, reservoirs, etc.)? Yes $\square$ No $\boxtimes$
If yes, d	liscuss how.

Chek	here to enter text.		
	Normal dry weather chara		
Provide conditi	_	ne wate	r body during normal dry weather
Water	in the stream is cloudy. N	o aqua	tic life, flora or fauna, was observed.
	nd time of observation: $\frac{2/1}{2}$ e water body influenced by		<u>07:45</u> water runoff during observations?
]	Page 74)	ristics	of the Waterbody (Instructions
Is the i		_	m of the discharge or proposed ollowing? Check all that apply.
	Oil field activities	$\boxtimes$	Urban runoff
$\boxtimes$	Upstream discharges		Agricultural runoff
□ tex	Septic tanks		Other(s), specify
B. V	Waterbody uses		
Observ	red or evidences of the follo	owing u	ises. Check all that apply.
	Livestock watering		Contact recreation
	Irrigation withdrawal	$\boxtimes$	Non-contact recreation
	Fishing		Navigation

	Domestic water supply		Industrial water supply		
	Park activities		Other(s), specify		
tex					
C. <b>V</b>	Waterbody aesthetics				
	eck one of the following that eiving water and the surroun		describes the aesthetics of the area.		
	Wilderness: outstanding na area; water clarity exception		beauty; usually wooded or unpastured		
	Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored				
$\boxtimes$	Common Setting: not offensive; developed but uncluttered; water ma be colored or turbid				
	Offensive: stream does not developed; dumping areas		nce aesthetics; cluttered; highly er discolored		

#### **DOMESTIC WORKSHEET 6.0**

#### INDUSTRIAL WASTE CONTRIBUTION

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

## Section 1. All POTWs (Instructions Page 99)

#### A. Industrial users

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

If there are no users, enter 0 (zero).
Categorical IUs:
Number of IUs: <u>0</u>
Average Daily Flows, in MGD: $\underline{0}$
Significant IUs - non-categorical:
Number of IUs: <u>0</u>
Average Daily Flows, in MGD: $\underline{0}$
Other IUs:
Number of IUs: <u>0</u>
Average Daily Flows, in MGD: $\underline{0}$
B. Treatment plant interference
In the past three years, has your POTW experienced treatment plant interference (see instructions)?
Yes □ No ⊠
<b>If yes</b> , identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.
The state of the s

## C. Treatment plant pass through In the past three years, has your POTW experienced pass through (see instructions)? No ⊠ Yes □ If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through. D. Pretreatment program Does your POTW have an approved pretreatment program? Yes □ No ⊠ **If yes**, complete Section 2 only of this Worksheet. Is your POTW required to develop an approved pretreatment program? Yes □ No ⊠

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

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

## Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 100)

#### A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18?

Yes □ No □

**If yes**, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click here to enter text.
B. Non-substantial modifications
Have there been any <b>non-substantial modifications</b> to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?
Yes □ No □
If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.
Click here to enter text.
C Effluent parameters above the MAI

#### C. Effluent parameters above the MAL

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

Table 6.0(1) - Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions
Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?
Yes □ No □
<b>If yes</b> , identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.
Click here to enter text.
Section 3. Significant Industrial User (SIU) Information and
Categorical Industrial User (CIU) (Instructions Page 100)
A. General information
Company Name: <u>No SIUs present</u>
SIC Code: Click here to enter text
Telephone number: Fax number:
text.
Contact name: New here to enter text
Address: Work here to enter text
City, State, and Zip Code:
B. Process information
Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).
Click here to enter text <u>.</u>

#### C. Product and service information

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

Click here to enter text				
D. Flow rate informati	ion			
See the Instructions for de	efinitions of "proc	ess" and "no	n-process	s wastewater."
Process Wastewater:				
Discharge, in gallon	s/day:	to enter text.		
Discharge Type: □	Continuous	Batch		Intermittent
Non-Process Wastewater:				
Discharge, in gallon	s/day:	to enter text.		
Discharge Type: □	Continuous	Batch		Intermittent
E. Pretreatment stand	lards			
Is the SIU or CIU subject t instructions?	o technically base	d local limits	s as defin	ed in the
Yes □ N	No 🗆			
Is the SIU or CIU subject t <i>Parts 405-471</i> ?	o categorical pret	reatment star	ndards fo	ound in 40 CFR
Yes □ N	No 🗆			
If subject to categorical particular category and subcategory		•	ate the ap	plicable
Category: Subcategories:	ter text. There to enter tex			
Category: Subcategories:	ter text. : here to enter tex			
Category: Subcategories:	ter text. here to enter tex			
Category: Subcategories:	ter text. here to enter tex			
Category: Subcategories:	ter text. ere to enter t <u>e</u> xt.			

## F. Industrial user interruptions Has the SILL or CILL caused or contributed to any problems (e.g., interferences)

		rrosion, blockages) at your POTW in the past three
	Yes □	No □
	•	describe each episode, including dates, duration, s, and probable pollutants.
Click here t	o enter tex	



## LIST OF ATTACHMENTS PLANTATION MUNICIPAL UTILITY DISTRICT TPDES RENEWAL

Attachment A – Core Data Form (Admin Report 1.0, Section 3.C)

Attachment B – Plain Language Summary (Admin Report 1.0, Section 15)

Attachment C – USGS Map (Admin. Report 1.0, Section 13)

Attachment D – Treatment Units Areas and Volumes (Tech Report 1.0, Section 2.A and B)

Attachment E – Flow Schematics (Tech Report 1.0, Section 2.C)

Attachment F – Service Area Map (Tech Report 1.0, Section 3)

Attachment G – Final Effluent Analysis (Tech Report 1.0, Section 7, worksheet 4.0)

#### **ATTACHMENT A**

#### **CORE DATA FORM**

## PLANTATION MUNICIPAL UTILITY DISTRICT WASTEWATER TREATMENT PLANT

#### **FEBRUARY 2024**





## **TCEQ Core Data Form**

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

## **SECTION I: General Information**

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

☐ New Pern	nit, Registra	ition or Authoriza	ation ( <i>Core Data F</i>	orm should be s	submitte	ed wit	h the prog	ram ap	olication.)			
□ Renewal	(Core Data	Form should be s	ubmitted with the	renewal form)	)		O	ther				
2. Customer	Reference	Number (if issu	red)	Follow this li			3. Reg	gulated	l Entity Re	ference	Number (if	issued)
CN 6006277	31			Central R	Registry*	*	RN 1	.02915	634			
SECTIO	V II:	Custom	er Infor	<u>mation</u>	<u>1</u>							
4. General Cu	istomer In	formation	5. Effecti	ve Date for Cu	ustome	r Info	rmation	Updat	es (mm/dd/	′уууу)		
☐ New Custor☐ Change in Le			☑ Update to Cus ne Texas Secretar			nptroll		_	egulated Ent	tity Own	ership	
			nay be updated Accounts (CPA).		lly base	d on	what is c	urrent	and active	with th	ne Texas Sec	retary of State
6. Customer	Legal Nam	e (If an individua	ıl, print last name	first: eg: Doe, J	John)			<u>If new</u>	Customer,	enter pro	evious Custom	ner below:
Plantation Mur	nicipal Utilit	y District										
7. TX SOS/CP	A Filing N	umber	8. TX Sta	<b>te Tax ID</b> (11 d	ligits)			<b>9. Fe</b> (9 dig	deral Tax I	D	10. DUNS applicable)	Number (if
11. Type of C	ustomer:	☐ Cor	poration				☐ Individ	lual		Partne	rship: 🔲 Ger	neral 🗌 Limited
Government: [	City 🔲 0	County   Federa	al 🗌 Local 🔲 St	ate 🛛 Other			Sole Pr	roprieto	rship	Otl	her:	
12. Number o	of Employ	ees						13. lr	ndepender	tly Ow	ned and Ope	erated?
⊠ 0-20   □ 2	21-100	] 101-250 🔲	251-500 🔲 5	01 and higher				⊠ Y€	es	☐ No		
14. Customer	Role (Pro	posed or Actual) -	– as it relates to t	he Regulated Er	ntity list	ed on	this form.	Please (	check one of	the follo	owing	
☐Owner ☐Occupationa	al Licensee	Operator Responsib	_	Owner & Opera					Other:			
15. Mailing	1300 Pos	t Oak Blvd										
Address:	Suite 240	0										
Address.	City	Houston		State	TX		ZIP	77056	5		ZIP + 4	
16. Country N	Vailing Inf	formation (if our	tside USA)	I		17.	E-Mail Ac	ddress	(if applicabl	e)		
						ccole	e@sphllp.c	com				
18. Telephon	e Number			19. Extension	on or Co	ode			20. Fax N	umber	(if applicable)	

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## **SECTION III: Regulated Entity Information**

21. General Regulated Er	tity Inforr	nation (If 'New Re	egulated Entity" is sele	cted, a new p	ermit applica	ition is also	o required.)		
☐ New Regulated Entity	☑ Update	to Regulated Entity	y Name 🔲 Update	to Regulated	Entity Inform	nation			
The Regulated Entity Nar as Inc, LP, or LLC).	ne submit	ted may be updo	ated, in order to me	et TCEQ Col	re Data Stai	ndards (r	emoval of a	organizatio	nal endings such
22. Regulated Entity Nam	<b>ne</b> (Enter no	ime of the site whe	ere the regulated actio	n is taking plo	ice.)				
Plantation MUD Wastewater	Treatment	Plant							
23. Street Address of the Regulated Entity:	1000 Grea	atwood Glen Drive							
(No PO Boxes)	City	Sugar Land	State	TX	ZIP	77479		ZIP + 4	
24. County	Fort Bend			•					
		If no Stre	et Address is provi	ded, fields 2	5-28 are re	quired.			
25. Description to									
Physical Location:									
26. Nearest City						State		Nea	rest ZIP Code
Latitude/Longitude are rused to supply coordinate	-	-	-		Pata Standa	ırds. (Ged	ocoding of t	he Physical	Address may be
	es where r	-	-	accuracy).	Oata Standa			-95.6872	
used to supply coordinate	es where r	one have been p	-	accuracy).	ongitude (V	V) In Deci		_	
27. Latitude (N) In Decim  Degrees	al:  Minutes	29.546258	Seconds	28. L	ongitude (V	V) In Deci	mal: //inutes	-95.6872	03 Seconds
27. Latitude (N) In Decim  Degrees  29. Primary SIC Code	al: Minutes	29.546258  29.546258  D. Secondary SIC	Seconds	28. Lo Degree 31. Primai	ongitude (V	V) In Deci	mal: Minutes  32. Seco	-95.6872	03 Seconds
used to supply coordinate  27. Latitude (N) In Decim  Degrees  29. Primary SIC Code  (4 digits)	al: Minutes	29.546258	Seconds	28. Lo Degree 31. Primar (5 or 6 digit	ongitude (V	V) In Deci	mal: //inutes	-95.6872	03 Seconds
used to supply coordinate  27. Latitude (N) In Decim  Degrees  29. Primary SIC Code  (4 digits)	Minutes  30 (4	29.546258  29.546258  D. Secondary SIC digits)	Seconds  Code	28. Lo Degree  31. Primar (5 or 6 digit	es  Y NAICS Co	V) In Deci	mal: Minutes  32. Seco	-95.6872	03 Seconds
used to supply coordinate  27. Latitude (N) In Decim  Degrees  29. Primary SIC Code  (4 digits)  4952  33. What is the Primary E	Minutes  30 (4	29.546258  29.546258  D. Secondary SIC digits)	Seconds  Code	28. Lo Degree  31. Primar (5 or 6 digit	es  Y NAICS Co	V) In Deci	mal: Minutes  32. Seco	-95.6872	03 Seconds
used to supply coordinate  27. Latitude (N) In Decim  Degrees  29. Primary SIC Code  (4 digits)	Minutes  Minutes  30 (4	29.546258  29.546258  D. Secondary SIC digits)	Seconds  Code	28. Lo Degree  31. Primar (5 or 6 digit	es  Y NAICS Co	V) In Deci	mal: Minutes  32. Seco	-95.6872	03 Seconds
used to supply coordinate  27. Latitude (N) In Decim  Degrees  29. Primary SIC Code  (4 digits)  4952  33. What is the Primary E	Minutes  Minutes  30 (4	29.546258  29.546258  D. Secondary SIC digits)	Seconds  Code	28. Lo Degree  31. Primar (5 or 6 digit	es  Y NAICS Co	V) In Deci	mal: Minutes  32. Seco	-95.6872	03 Seconds
used to supply coordinate  27. Latitude (N) In Decim  Degrees  29. Primary SIC Code  (4 digits)  4952  33. What is the Primary E  Treatment of wastewater from	Minutes  Minutes  30 (4	29.546258  29.546258  D. Secondary SIC digits)	Seconds  Code	28. Lo Degree  31. Primar (5 or 6 digit	es  Y NAICS Co	V) In Deci	mal: Minutes  32. Seco	-95.6872	03 Seconds
used to supply coordinate  27. Latitude (N) In Decim  Degrees  29. Primary SIC Code  (4 digits)  4952  33. What is the Primary E  Treatment of wastewater from  34. Mailing	Minutes  Minutes  30 (4	29.546258  29.546258  D. Secondary SIC digits)	Seconds  Code	28. Lo Degree  31. Primar (5 or 6 digit	es  Y NAICS Co	V) In Deci	mal: Minutes  32. Seco	-95.6872	03 Seconds
used to supply coordinate  27. Latitude (N) In Decim  Degrees  29. Primary SIC Code  (4 digits)  4952  33. What is the Primary E  Treatment of wastewater from  34. Mailing	Minutes  Minutes  3(4  Business or om domestic  6420 Re	29.546258  29.546258  D. Secondary SIC digits)  f this entity? (December 1)	Seconds  Code  State	28. Lo Degree  31. Primai (5 or 6 digit	es  Ty NAICS Co  iption.)	V) In Deci	mal: Minutes  32. Seco	-95.6872 Ondary NAI	03 Seconds
used to supply coordinate  27. Latitude (N) In Decim  Degrees  29. Primary SIC Code  (4 digits)  4952  33. What is the Primary E  Treatment of wastewater from  34. Mailing  Address:	Minutes  Minutes  3(4  Business or om domestic  6420 Re	29.546258  29.546258  D. Secondary SIC digits)  f this entity? (December of the control of the c	Seconds  Code  State	28. Lo Degree 31. Primar (5 or 6 digit 221320  or NAICS descri	ry NAICS Co	de	mal: Minutes  32. Seco	-95.6872  ondary NAI gits)	03 Seconds

**39. TCEQ Programs and ID Numbers** Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

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Dam Safety	Districts	Edwards Aquifer		Emissions inventory Air	☐ Industrial Hazardous Waste
Municipal Solid Waste	New Source Review Air	□ ossf		Petroleum Storage Tank	□ pws
☐ Studge	Storm Water	☐ Title V Air		] Tires	☐ Used Oil
Voluntary Cleanup	<b>⊠</b> Wastewater	☐ Wastewater Agric	ulture [	] Water Rights	Other:
SECTION IV: P	<u>reparer Inf</u>	ormation	41. Title:	Permitting Engineer	
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address	
(281) 363-4039		( ) -	sbarry@qui	iddity.com	novali distributana di distributa di Santa di S
SECTION V: AU  6. By my signature below, I cert o submit this form on behalf of the	lify, to the best of my kno	owledge, that the informa	•	•	rte, and that I have signature authorit lentified in field 39.
Company: Plantation	on MUD		Job Title:	President	
Name (In Print): Jody Rice				Phone:	(713)623- <b>453</b> 1
Signature:	7/1/		······································	Date:	11111114

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Municipal Sol	id Waste	New Source Review Air	OSSF		] Petroleum St	orage Tank	☐ PWS
Sludge		Storm Water	☐ Title V Air		] Tires		Used Oil
☐ Voluntary Cle	anup		☐ Wastewater Agricu	ılture	Water Rights		Other:
		WQ0011971001					
SECTION	IV: Pr	eparer Inf	ormation	•			
40. Name:	Steve Barry			41. Title:	Permitting	Engineer	
42. Telephone N	lumber	43. Ext./Code	44. Fax Number	45. E-Mail	Address		
( 281 ) 363-4039			( ) -	sbarry@qui	iddity.com		
SECTION	V: Au	thorized S	ignature	- 1			
<b>46.</b> By my signature	below, I certify	y, to the best of my kn		•		•	e, and that I have signature authority ntified in field 39.
Company:	Plantation	n MUD		Job Title:	President		
Name (In Print):	Jody Ricco	)			•	Phone:	(713)623- <b>4531</b>
Signature:						Date:	

☐ Emissions Inventory Air

☐ Industrial Hazardous Waste

☐ Edwards Aquifer

☐ Dam Safety

Districts

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#### **ATTACHMENT B**

#### **PLAIN LANGUAGE SUMMARY**

# PLANTATION MUNICIPAL UTILITY DISTRICT WASTEWATER TREATMENT PLANT



Plantation Municipal Utility District – TPDES Renewal Plain Language Summary

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

Plantation Municipal Utility District (CN600627731) operates the Plantation MUD wastewater treatment facility (RN102915634), an activated sludge process plant operated in the single stage nitrification mode. The facility is located at 1000 Greatwood Glen Drive, in Fort Bend County, Texas 77479.

This application is for a renewal to discharge at a daily average flow of 440,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ( $CBOD_5$ ), total suspended solids (TSS), ammonia nitrogen ( $NH_3$ -N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

#### **Spanish Translation**

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

El Distrito de Servicios Públicos Municipales de Plantation (CN600627731) opera La Planta De Tratamiento de aguas residuales (RN102915634) de Plantation MUD, la planta activamente esta procesando y f funcionando en el modo de nitrificación de una sola etapa. La facilidad está ubicada en 1000 Greatwood Glen Drive, en el Condado de Fort Bend, Texas 77479.

Esta solicitud es para una renovación para poder descargar un flujo promedio diario de 440,000 galones por día de aguas residuales domésticas tratadas.

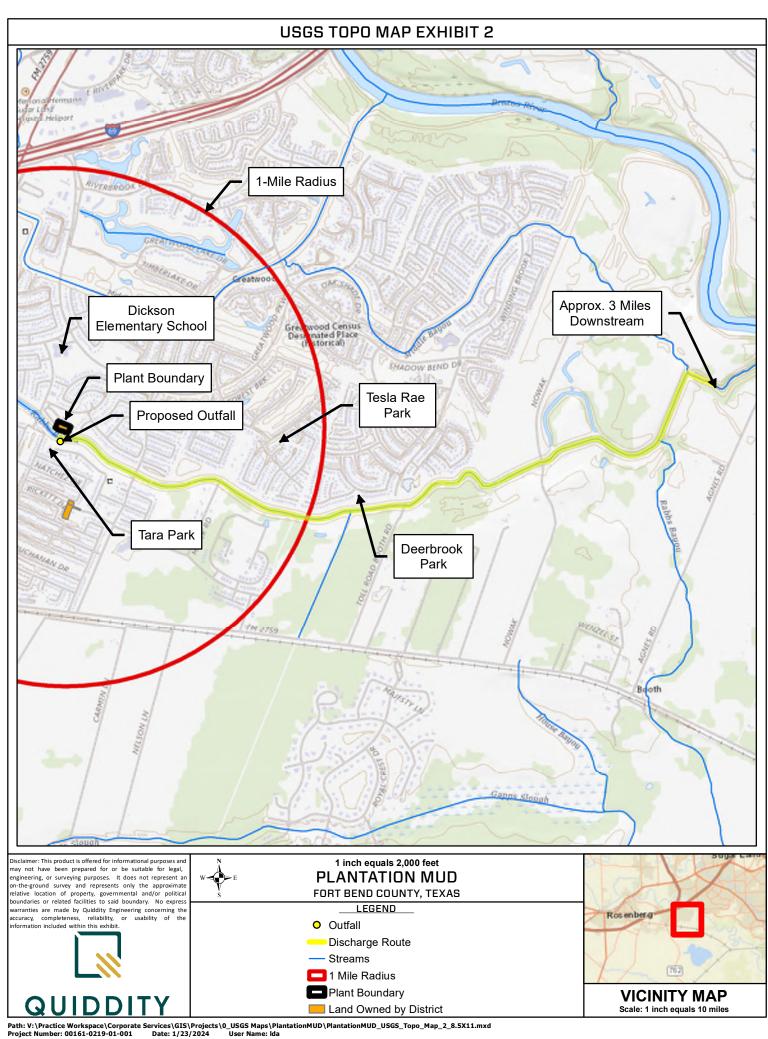
Se espera que las descargas de la facilidad contengan una demanda bioquímica carbonosa de oxígeno (CBOD5) de cinco días, sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N) y *Escherichia coli*. Adicionalmente, la sección 7 del Informe Técnico Nacional 1.0 incluye contaminantes potenciales adicionales. Análisis de Contaminantes de Efluentes Tratados y Hoja de Trabajo Doméstico 4.0 en el paquete de solicitud de permiso. Las aguas residuales domésticas son tratadas por una planta active que procesa lodos y las unidades de tratamiento que incluyen una criba de barras, cuencas de aireación, clarificadores finales, digestores de lodos y cámaras de contacto de cloro.

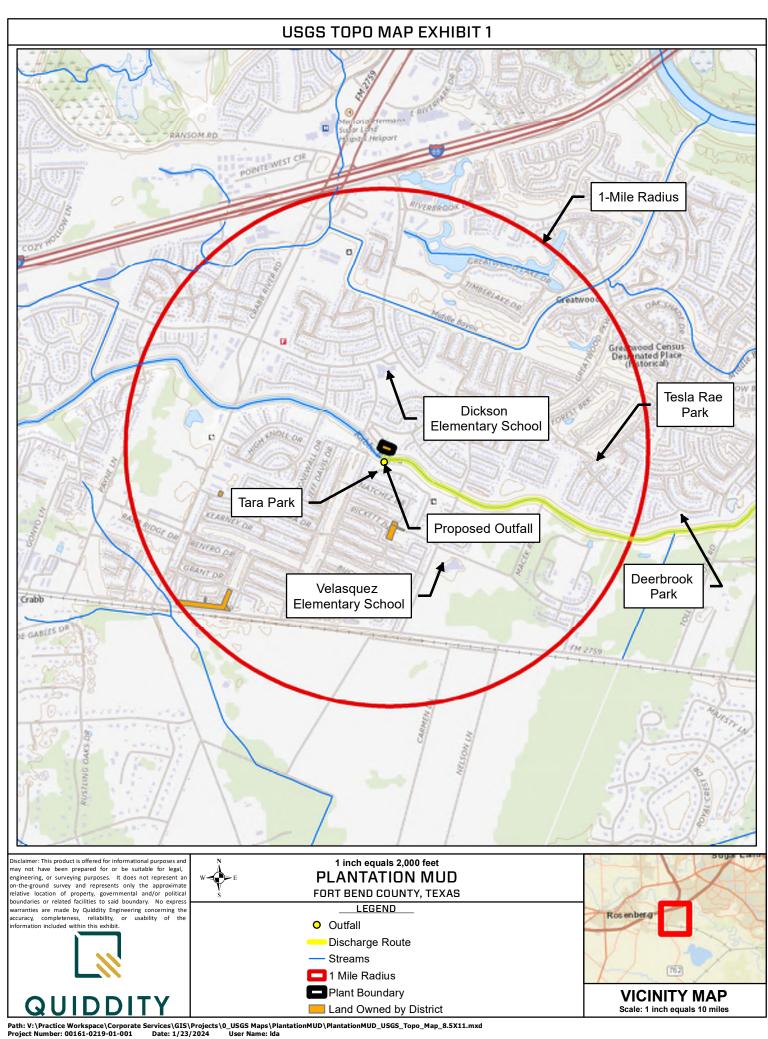
#### **ATTACHMENT C**

#### **USGS MAP**

# PLANTATION MUNICIPAL UTILITY DISTRICT WASTEWATER TREATMENT PLANT







## **ATTACHMENT D**

#### TREATMENT UNITS AREAS AND VOLUMES

# PLANTATION MUNICIPAL UTILITY DISTRICT WASTEWATER TREATMENT PLANT



## PLANTATION MUNICIPAL UTILITY DISTRICT TREATMENT UNIT DIMENSIONS AND VOLUMES

The Plantation MUD Wastewater Treatment Plant consists of two separate treatment trains operating in parallel. Each train consists of one (1) aeration basin, one(1) clarifier, one (1) chlorine contact chamber, and one (1) aerobic digester. Following are the dimensions and volumes of the treatment units in those trains:

#### Aeration basin

Train 1

30 ft. x 32 ft. x 14.75 ft. = 14,160 cu.ft.

Train 2

 $\pi \times (22^2-14^2) \times (210/360) \times 14.75 = 7,785 \text{ cu.ft.}$ 

Total = 21,945 cu.ft.

#### Final Clarifier

Train 1

32 ft. x 32 ft . = 1,024 sq.ft.

Train 2

 $\pi \times (14ft.)^2$  = 616 sq.ft.

Total = 1,640 sq.ft.

#### Aerobic Digester

Train 1

16 ft. x 32 ft. x 14.75 ft. = 7,552 cu.ft.

Train 2

 $\pi \times (22^2-14^2) \times (105/360) \times 14.5$  = 3,826 cu.ft.

Total = 11,378 cu.ft.

### **Chlorine Contact Basin**

Train 1

5 ft. x 32 ft. x 13.27 ft. = 2,123 cu.ft.

Train 2

 $\pi \times (22^2-14^2) \times (45/360) \times 12.12$  = 1,370 cu.ft.

Total = 3,493 cu.ft.

### **Existing Blowers**

2 @ 1,224 scfm and 6.4 psi each

1 @ 518 scfm and 6.4 psi

Firm Blower Capacity with Largest Unit out of Service

1,224 scfm + 518 scfm = 1,742 scfm

#### **ATTACHMENT E**

#### **FLOW SCHEMATICS**

# PLANTATION MUNICIPAL UTILITY DISTRICT WASTEWATER TREATMENT PLANT



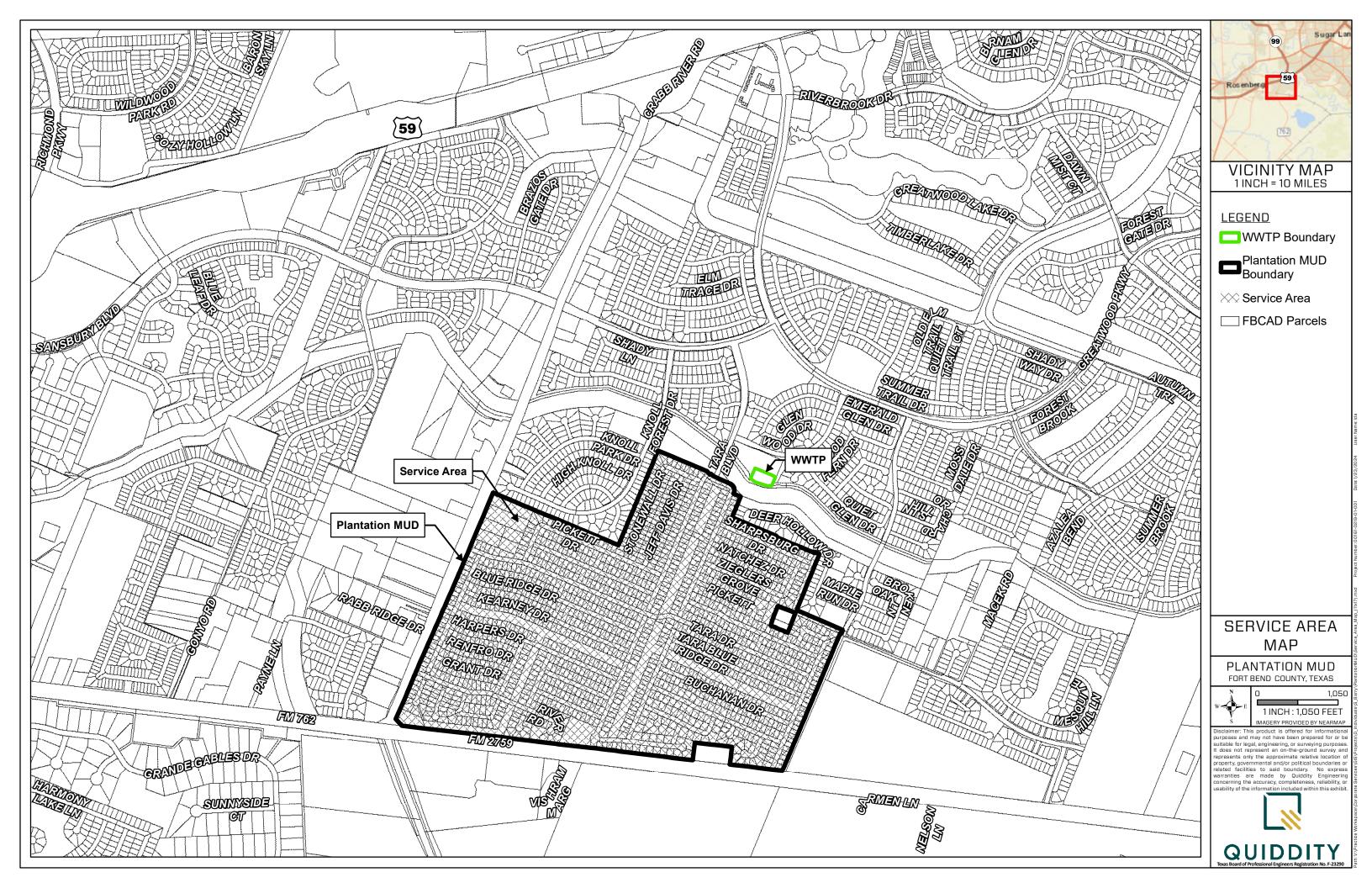
## LEGEND: ক্রি RETURN ACTIVATED SLUDGE CL2 WASTE ACTIVATED SLUDGE CHLORINE SOLUTION CHLORINE CONTACT CLARIFIER No. AERATION BASIN No. 1 No. 1 INFLUENT LIFT STATION EXIST HEADWORKS TO OUTFALL CL<sub>2</sub> LIFT STATION No.2 CHLORINE AERATION BASIN No. 3 CLARIFIER No. **AERATION** CONTACT No. 2 BASIN No. 2 DIGESTER No. 00 BELT PRESS SCREENINGS TO LANDFILL DEWATERED SOLIDS TO LANDFILL DIGESTER No. 2 **PROCESS FLOW DIAGRAM** PLANTATION MUNICIPAL UTILITY DISTRICT **WASTEWATER TREATMENT PLANT 0.44 MGD PERMIT NO. WQ0011971001** FORT BEND COUNTY, TEXAS **JANUARY 2024** QUIDDITY -

#### **ATTACHMENT F**

#### **SERVICE AREA MAP**

# PLANTATION MUNICIPAL UTILITY DISTRICT WASTEWATER TREATMENT PLANT





#### **ATTACHMENT G**

#### **FINAL EFFLUENT ANALYSIS**

# PLANTATION MUNICIPAL UTILITY DISTRICT WASTEWATER TREATMENT PLANT





04 January 2024

Si Environmental, LLC Chris Manthei 6420 Reading Road Rosenberg, TX 77471

#### Plantation MUD Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 29-Nov-23 15:40. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 8

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Laura Bonjonia For Sarah Chaplain

Client Services Representative

Laura Brynie

LABORATOR!

Certificate No: T104704265-22-20

Envirodyne Laboratories, Inc 11011 Brooklet Dr., # 230 Houston, TX 77099 281.568.7880 Phone www.envirodyne.com



Client: Si Environmental, LLC

Plantation MUD Permit Renewal

Work Order: 23K3238

Project:

Reported:

04-Jan-24 15:35

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	23K3238-01	Water	29-Nov-23 08:10	29-Nov-23 15:40

L - Sample analyzed by TNI certified lab: T104704215-22-47

Envirodyne Laboratories, Inc.



Client:

Si Environmental, LLC

Project:

Plantation MUD Permit Renewal

Work Order:

23K3238

Reported:

04-Jan-24 15:35

Effluent 23K3238-01 (Water) Sampled: 29-Nov-23 08:10

Analyte	Result	Reportin Limit	g Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Envirody	ne Labo	oratories, l	ne.				
Field Analysis										
Chlorine Residual, Total	2.50	0.01	mg/L	1	B3L3287	29-Nov-23	29-Nov-23 08:10	SM 4500-CLC	i MD	a
Dissolved Oxygen (DO)	7.30		mg/L	1	B3L3287	29-Nov-23	29-Nov-23 08:10	SM4500-O C		2
pH	7.59		su	1	B3L3287	29-Nov-23	29-Nov-23 08:10	SM4500H+ B		a
Microbiology										
E.coli	6	- 1	MPN/100 mL	1	B3L3605	29-Nov-23	29-Nov-23 16:06	SM9223 B	CG	
Enterococci	<1	1	MPN/100 mL	1	B3L3589	29-Nov-23	29-Nov-23 16:06	Enterolen	CG	т
Wet Chemistry										
Ukalinity (Total) as CaCO3	165	20.0	mg/L	1	B3L3735	06-Dec-23	06-Dec-23 10:00	EPA 310.2	SSJ	
Ammonia-N (NH3-N)	< 0.20	0.20	mg/L	1	B3L4192	12-Dec-23	12-Dec-23 08:15	EPA 350.1	SSJ	P
Sitrate-N	5.92	2.50	mg/L	5	B3L3397	01-Dec-23	01-Dec-23 08:10	EPA 353.1	SSJ	P
Dil & Grease	<5.0	5.0	mg/L	1	B3L4925	18-Dec-23	18-Dec-23 09:55	EPA 1664 A		
ulfate	38.2	10.0	mg/L	5	B3L3583	05-Dec-23	05-Dec-23 08:35	EPA 375.4	BRC	
DS	456	50.0	mg/L	1	B3L3516	04-Dec-23	04-Dec-23 15:00		SSJ	-
KN-N	1.50	0.50	mg/L	1	B31.4894	07-Dec-23	07-Dec-23 16:02	SM2540 C	NMV	Т
ss	3.8	2.0	mg/l.	1	B3L3382	04-Dec-23	04-Dec-23 19:24	SM 4500-NH3 E SM2540 D	TB	L

Envirodyne Laboratories, Inc.



Client:

Si Environmental, LLC

Project:

Plantation MUD WWTP

Work Order:

24A0340

Reported:

15-Jan-24 09:59

Effluent 24A0340-01 (Water) Sampled: 03-Jan-24 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Envirod	yne Labo	ratories, I	ne.				
Wat Chamilat										
Wet Chemistry CBOD-5	11	2.0	me/l	,	Beader	04 1 24	041-041000			
	3.3 40.0	2.0 12.0	mg/L mg/L	1 4	B4A4442 B4A3638	04-Jan-24 05-Jan-24	04-Jan-24 10:00 05-Jan-24 13:10	SM5210 B SM4500 CI-B	AGT	1

Envirodyne Laboratories, Inc.



Client:

Si Environmental, LLC

Project:

Plantation MUD Permit Renewal

Work Order:

23K3238

Reported:

04-Jan-24 15:35

#### Microbiology - Quality Control

### Envirodyne Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B3L3589 - Microbiology										
Blank (B3L3589-BLK1)				Prepared &	Analyzed:	29-Nov-23				
Enterococci	<1	I M	IPN/100 m	L						Т
Duplicate (B3L3589-DUP1)	Sou	rce: 23K2849-	01	Prepared &	Analyzed:	29-Nov-23				
Enterococci	<1	1.80	PN/160 m	Ł.	<1			0	0.5366	Т
Batch B3L3605 - Microbiology										
Blank (B3L3605-BLK1)				Prepared &	Analyzed:	29-Nov-23				
E.coli	<1	1 M	PN/100 m	L						
Duplicate (B3L360S-DUP1)	Sou	rce: 23K3026-	02	Prepared &	Analyzed:	29-Nov-23				
E.coli	~2	2 M	PN/100 ml	L	<2			0	0.402	

Envirodyne Laboratories, Inc.



Client:

Si Environmental, LLC

Project:

Plantation MUD Permit Renewal

Work Order:

23K3238

Reported:

04-Jan-24 15:35

## Wet Chemistry - Quality Control Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L3382 - Inorganics										
Blank (B3L3382-BLK1)				Prepared &	Analyzed:	04-Dec-23				
TSS	<2.0	2.0	mg/L		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	011000				
LCS (B3L3382-BS1)				Prepared &	Analyzed	04-Dec 21				
TSS	82,0		mg/L	100	Allanyzou.	82.0	80-120			
Duplicate (B3L3382-DUP1)	Sou	rce: 23K3238-	01	Prepared &	Analyzed	04-Dec-23				
TSS	3.2	2.0	mg/L	- repared to	3.8	0.1000-23		17.1	20	
Batch B3L3397 - Inorganies										
Blank (B3L3397-BLK1)				Prepared &	Analyzed:	01-Dec-23				
Nitrace-N	< 0.50	0.50	mg/L		· · · · · · · · · · · · · · · · · · ·	01 1000 20			-	
LCS (B3L3397-BS1)				Prepared &	Amalarradi	01 Dec 22				
Nitrate-N	2.87		mg/L	3.00	zumiyzeu.	95.7	90-110			
Matrix Spike (B3L3397-MS1)	Sour	rce: 23K3176-	01	Prepared &	Analyzada	01 Dec 22				
Nitrate-N	173	25.0	mg/L	150	28.0	96.7	80-120			
Matrix Spike Dup (B3L3397-MSD1)	Sour	ce: 23K3176-	1	Prepared &	Analyzed: 6	11-Dec. 23				
Nitrate-N	173	25.0	mg/L	150	28.0	96.7	80-120	0.00	20	
Batch B3L3516 - Inorganics										
Blank (B3L3516-BLK1)				Prepared &	Analumed: (	M Day 22				
TDS	<50.0	50.0	mg/L	repared ac	rinaryzed: (	P4-1000-23				

Envirodyne Laboratories, Inc.



Client:

Si Environmental, LLC

Project:

Plantation MUD Permit Renewal

Work Order: 23

23K3238

Reported:

04-Jan-24 15:35

## Wet Chemistry - Quality Control Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L3516 - Inorganics										
LCS (B3L3516-BS1)				Prepared &	Analyzed:	04-Dec-23				
TDS	570		mg/L	500		114	0-200			
Duplicate (B3L3516-DUP1)	Sou	rce: 23K2692	-01	Prepared &	Analyzed:	04-Dec-23				
TDS	642	50.0	mg/L		656			2.16	20	
Batch B3L3583 - Inorganies										
Blank (B3L3583-BLK1)				Prepared &	Analyzed:	05-Dec-23				
Sulfate	<2.00	2.00	mg/L		, , , , , , , , , , , , , , , , , , , ,					
LCS (B3L3583-BS1)				Prepared &	Analyzed:	05-Dec-23				
Sulfate	20.3		mg/L	20.0		102	90-110			
Matrix Spike (B3L3583-MS1)	Sou	rce: 23J2466-1	18	Prepared &	Analyzed:	05-Dec-23				
Sulfate	124	8.00	mg/L	80,0	41.6	104	89-120			
Matrix Spike Dup (B3L3583-MSD1)	Sou	rce: 23J2466-1	18	Prepared &	Analyzed:	05-Dec-23				
Sulfate	125	8.00	mg/L	80.0	41.6	105	80-120	0.704	20	
Batch B3L3735 - Inorganics										
Blank (B3L3735-BLK1)				Prepared &	Analyzed:	06-Dec-23				
Alkalinity (Total) as CaCO3	<20.0	20.0	mg/L							
LCS (B3L3735-BS1)				Prepared &	Analyzed:	06-Dec-23				
Alkalinity (Total) as CaCO3	101		mg/L	100	-	101	90-110			

Envirodyne Laboratories, Inc.



Client:

Si Environmental, LLC

Project:

Plantation MUD Permit Renewal

Work Order:

23K3238

Reported:

04-Jan-24 15:35

## Wet Chemistry - Quality Control Envirodyne Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B3L3735 - Inorganics										
Duplicate (B3L3735-DUP1)	Sou	rce: 23K1348	-03	Prepared &	Analyzed:	06-Dec-23				
Alkalinity (Total) as CaCO3	271	20.0	mg/L		270			0.584	20	
Batch B3L4192 - Inorganics										
Blank (B3L4192-BLK1)				Prepared &	Analyzed:	12-Dec-23				
Ammonia-N (NH3-N)	<0.20	0.20	mg/L							
LCS (B3L4192-BS1)				Prepared 8	Analyzed:	12-Dec-23				
Ammonia-N (NH3-N)	1.05		mg/L	1.00		105	90-110			
Matrix Spike (B3L4192-MS1)	Sou	ree: 23K3182	-01	Prepared &	Analyzed:	12-Dec-23				
Ammonia-N (NH3-N)	1.07	0.20	mg/L	1.00	ND	107	90-110			
Matrix Spike Dup (B3L4192-MSD1)	Sou	ree: 23K3182	-01	Prepared &	Analyzed:	12-Dec-23				
Ammonia-N (NH3-N)	1.05	0.20	mg/L	1.00	ND	105	90-110	1.89	20	
Batch B3L4925 - Inorganics										
Blank (B3L4925-BLK1)				Prepared &	Analyzed:	18-Dec-23				
Oil & Grease	<5.0	5.0	mg/L							
LCS (B3L4925-BS1)				Prepared &	Analyzed:	18-Dec-23				
Oil & Grense	39.3		mg/L	40,0		98.4	78-114			
LCS Dup (B3L4925-BSD1)				Prepared &	Analyzed:	18-Dec-23				
Oil & Grease	40.0		mg/L	40.0		100	78-114	1.66	18	

Envirodyne Laboratories, Inc.



Client: Si Environmental, LLC

Project: Plantation MUD Permit Renewal

Work Order: 23K3238

Reported:

04-Jan-24 15:35

#### Notes and Definitions

- T Equipment temperature temporarily out of specification; all QC met acceptance criteria.
- P Sample preserved at bench
- Analyzed by third party laboratory
- ND Analyte NOT DETECTED at or above the reporting limit
- < Result is less than the RL
- Analyte not available for TNI/NELAP accreditation
- n Not accredited

Envirodyne Laboratories, Inc.

A420501

Envirodyne Laboratories, Inc.

234 228

TCEQ Certification # T104704265

Phone (281)568-7880 - Fax (281)568-8004 Houston, Texas 77099-3543 11011 Brooklet, Ste. 230

Page

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08280 əmiT Analysis Analysis Request and Chain of Custody Record aboratory No. Temp. Seal Intact? eal Intact? Seal Intact? 7.59 7.30 .O.Q bhs Date: 1 24 2 3 Hd Time: 1540 CBOD, TSS, SO4, CI, TDS, Cond, Alk, NO3-N Date: Time: Date: Time: Date: Time: ANALYSIS REQUESTED NH3-N, TKN-N, T. PO4 Plantation MUD Permit Renewal Oil & Grease Enterococci pH,DO,CI2, Ecoli Email: Site Representative: Arrival Temp. Data Results To: Date: IN 4 Received by Lab; Received by: Received by: (Signature) (Signature) fime: (Ch . (Signature) se,Na2S2O ce,Na2S200 Sample Container Sample Type (Liquid, Preservative (SteeMatt) 2.412.2 Ice, HCI 1 RHY 8 ž Date: Time: Date: Time: Liquid Liquid Liquid Liquid Liquid Liquid Phone: Client/Project 1 L glass 20ml//ldex 20ml//Idex 500 ml P gal/cubie A Meter Reading: A.5 Сошр Relinquished by: Relinquished by: Relinquished by: > > Grab > Mn Conection: (Signature) (Signature) (Signature) पास्रा 11/23/13 0180 Date & Time Rosenberg, TX 77471 FLOW 6240 Reading Road Si Environmental Mike Thornhi I Field Sample No./ Indentification Effluent (Signature) Effluent Effluent Effluent Effluent Effluent Affiliation 3 Sampline Project No. Remarks: Address: Contact: Name: City: Lab ID No.