

#### 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.

# TCEQ

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Mark D. McDonald (CN606247955) and Paul D. Smith (CN606250504) proposes to operate the Willis 207 Wastewater Treatment Plant (RN111948493), an activated sludge process with nitrification operated in the complete mix mode. The facility will be located at approximately 4,550 feet northwest of the intersection of Bilnoski Road and E. Farm-to-Market Road 1097, in near Willis, Montgomery County, Texas 77378. This application for a new application to discharge a daily average flow of 450,000 gallons per day of treated domestic wastewater..

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

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

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

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

Mark D. McDonald (CN606247955) and Paul D. Smith (CN606250504) propone operar la Planta de Tratamiento de Aguas Residuales de Willis 207 (RN New), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas aproximadamente 4550 pies al sureste de la intersección de Carretera Bilnoski y Carretera Granja-a-Mercado 2860 Este en Condado de Montgomery, Texas 77378.. Esta solicitud es para una nueva aplicación para descargar a un flujo promedio diario de 450,000 galones por día de aguas residuales domésticas tratadas.

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

#### **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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

#### PERMIT NO. WQ0016515001

APPLICATION. Mark D. McDonald and Paul D. Smith, 11465 Bilnoski Road, Willis, Texas 77378, have applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016515001 (EPA I.D. No. TX0145874) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 450,000 gallons per day. The domestic wastewater treatment facility will be located approximately 4,550 feet northwest of the intersection of Bilnoski Road and East Farm-to-Market Road 1097, near the city of Willis, in Montgomery County, Texas 77378. The discharge route will be from the plant site to an unnamed tributary of Hegar Branch; thence to Hegar Branch; thence to Caney Creek. TCEQ received this application on March 28, 2024. The permit application will be available for viewing and copying at R. F. Meador Library, 709 West Montgomery Street, Willis, in Montgomery County, Texas, and at Huntsville Public Library, 1219 13<sup>th</sup> Street, Huntsville, in Walker 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.tceq.texas.gov/LocationMapper/?marker=-95.401111,30.5075&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.

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="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. 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="https://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 Mark D. McDonald and Paul D. Smith at the address stated above or by calling Ms. Shelley Young, Consulting Engineer, WaterEngineers. Inc., at 281-373-0500.

Issuance Date: May 3, 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

#### PERMISO PROPUESTO NO. WQ0016515001

**SOLICITUD.** Mark D. McDonald and Paul D. Smith, 11465 Bilnoski Road, Willis, Tejas 77378, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016515001 (EPA I.D. No. TX0145874) 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 450,000 galones por día. La planta está ubicada aproximadamente 4,550 pies al noroeste de la intersección de la Camino Bilnoski y Camino Este Granja-a-Mercado 1097, cerca de la ciudad de Willis, el Condado de Montgomery, Texas 77378. La ruta de descarga es del sitio de la planta a tributario sin nombre de la Hegar Branch, de ahí a Hegar Branch, de ahí a Caney Creek. La TCEQ recibió esta solicitud el 28 de marzo de 2024. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca del R.F. Meador, 709 Calle de Montgomery Oeste, Willis, en Condado de Montgomery, Tejas y en Biblioteca Publica de Huntsville, 1219 Calle de 13th, Huntsville, en Condado de Walker, Tejas antes de la fecha de publicación de este aviso en el periodico. 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=-95.40111,30.5075&level=18

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

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

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

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

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

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

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

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

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

Tambien se puede obtener informacion adicional del Mark D. McDonald and Paul D. Smith a la direccion indicada arriba o llamando a Sra. Shelley Young, P.E., WaterEngineers, Inc., al 281-373-0500.

Fecha de emisión 3 de mayo de 2024

#### **Texas Commission on Environmental Quality**



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

#### **NEW**

#### **PERMIT NO. WQ0016515001**

**APPLICATION AND PRELIMINARY DECISION.** Mark D. McDonald and Paul D. Smith, 11465 Bilnoski Road, Willis, Texas 77378, have applied to the Texas Commission on Environmental Quality (TCEQ) for new Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016515001, to authorize the discharge of treated domestic wastewater at a daily average flow not to exceed 450,000 gallons per day. TCEQ received this application on March 28, 2024.

The facility will be located approximately 4,550 feet northwest of the intersection of Bilnoski Road and East Farm-to-Market Road 1097, in Montgomery County, Texas 77378. The treated effluent will be discharged to an unnamed tributary of Hegar Branch, thence to Hegar Branch, thence to Caney Creek in Segment No. 1010 of the San Jacinto River Basin. The unclassified receiving water uses are high aquatic life use for the unnamed tributary of Hegar Branch and Hegar Branch. The designated uses for Segment No. 1010 are primary contact recreation, public water supply, and high aquatic life use. In accordance with 30 Texas Administrative Code §307.5 and TCEO's Procedures to Implement the Texas Surface Water Quality Standards (June 2010). an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in the unnamed tributary of Hegar Branch, Hegar Branch, or Caney Creek, which have all been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.401111,30.5075&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 R. F. Meador Library, 709 West Montgomery Street, Willis, in Montgomery County, Texas, and at Huntsville Public Library, 1219 13th Street, Huntsville, in Walker 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.

**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 Mark D. McDonald and Paul D. Smith at the address stated above or by calling Ms. Shelley Young, Consulting Engineer, WaterEngineers. Inc., at 281-373-0500.

Issuance Date: July 14, 2025

#### Comisión de Calidad Ambiental de Texas



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

#### **NUEVO**

#### **PERMISO NO. WQ0016515001**

**SOLICITUD Y DECISIÓN PRELIMINAR**. Mark D. McDonald and Paul D. Smith, 11465 Bilnoski Road, Willis, Tejas 77378, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ, por sus siglas en inglés) un nueva al Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES, por sus siglas en inglés) Permiso No. WQ0016515001 para autorizar la descarga de aguas residuales domésticas tratadas de un flujo medio anual medio que no exceda los 450,000 galones por día. La TCEQ recibió esta solicitud en el 28 de marzo de 2024.

La planta estará ubicada aproximadamente aproximadamente 4,550 pies al noroeste de la intersección de la Camino Bilnoski y Camino Este Granja-a-Mercado 1097, cerca de la ciudad de Willis, el Condado de Montgomery, Texas 77378. El efluente tratado será descargado a tributario sin nombre de la Hegar Branch, de ahí a Hegar Branch, de ahí a Caney Creek en el Segmento No. 1010 de la Cuenca del Rio San Jacinto. Los usos no clasificados de las aguas receptoras son elevados usos de la vida acuatica para un tributario sin nombre de la Hegar Branch y Hegar Branch. Los usos designados para el Segmento No. 1010 son elevados usos de vida acuática. abastecimiento de agua potable y recreación contacto primaria. De acuerdo con la 30 TAC §307.5 y los procedimientos de implementación de la TCEQ (enero 2010) para las Normas de Calidad de Aguas Superficiales en Texas, fue realizada una revisión de la antidegradación de las aguas recibidas. Una revisión de antidegradación del Nivel 1 ha determinado preliminarmente que los usos de la calidad del agua existente no serán perjudicados por la acción de este permiso. Se mantendrá un criterio narrativo y numérico para proteger los usos existentes. Una revisión del Nivel 2 ha determinado preliminarmente que no se espera ninguna degradación significativa en la tributario sin nombre de la Hegar Branch, Hegar Branch, o Caney Creek, que ha sido identificado como de uso elevado para la vida acuática Los usos existentes serán mantenidos y protegidos. La determinación preliminar puede ser reexaminada y puede ser modificada, si se recibe alguna información nueva. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.401111,30.5075&level=18

El Director Ejecutivo de la TCEQ ha concluido el examen técnico de la solicitud y ha preparado un bosquejo de permiso. El bosquejo de permiso, de ser aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado la decisión preliminar de que este permiso, si se emite, cumple con todos los requisitos legales y reglamentarios. La

solicitud de permiso, la decisión preliminar del Director Ejecutivo y el bosquejo del permiso están disponibles para ver y copiar en Biblioteca del R.F. Meador, 709 Calle de Montgomery Oeste, Willis, en Condado de Montgomery, Tejas y en Biblioteca Pública Huntsville, 1219 Calle de 13th, Huntsville, en Condado de Walker, Tejas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: <a href="https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications">https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</a>

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

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

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

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

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

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

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

Todos los comentarios públicos escritos y las solicitudes de reunión pública deben enviarse a Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente a <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 enviarse electrónicamente a <a href="www.tceq.texas.gov/goto/comment">www.tceq.texas.gov/goto/comment</a>, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a la TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de TCEQ, línea gratuita, al 1-800-687-4040 o visite su sitio web en <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 de Mark D. McDonald and Paul D. Smith en la dirección indicada anteriormente o llamando a Shelley Young, P.E., WaterEngineers, Inc., al 281-373-0500.

Fecha de Emision: 14 de julio de 2025



TPDES PERMIT NO. WQ0016515001 [For TCEQ office use only - EPA I.D. No. TX0145874]

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

#### PERMIT TO DISCHARGE WASTES

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

Mark D. McDonald and Paul D. Smith

whose mailing address is

11465 Bilnoski Road Willis, Texas 77378

is authorized to treat and discharge wastes from the Willis 207 Wastewater Treatment Facility, SIC Code 4952

located approximately 4,550 feet northwest of the intersection of Bilnoski Road and East Farm-to-Market Road 1097, in Montgomery County, Texas 77378

to an unnamed tributary of Hegar Branch, thence to Hegar Branch, thence to Caney Creek in Segment No. 1010 of the San Jacinto River Basin

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

| This permit shall expire at midnight, <b>five years fro</b> | m the date of issuance. |
|---|-------------------------|
| ISSUED DATE:  |                         |
|   | For the Commission      |

#### INTERIM I EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through completion of expansion to the 0.30 million gallons per day (MGD) facility, the permittee is authorized to discharge subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.15 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 417 gallons per minute.

| Effluent Characteristic  | Discharge Limitations       |                   |                   | Min. Self-Monitoring Requirements |  |                                      |
|--|-----------------------------|-------------------|-------------------|-----------------------------------|--|--------------------------------------|
|  | Daily Avg<br>mg/l (lbs/day) | 7-day Avg<br>mg/l | Daily Max<br>mg/l | Single Grab<br>mg/l               | Report Daily Avg<br>Measurement<br>Frequency | g. & Max. Single Grab<br>Sample Type |
| Flow, MGD  | Report                      | N/A               | Report            | N/A                               | Continuous                                   | <b>Totalizing Meter</b>              |
| Carbonaceous Biochemical<br>Oxygen Demand (5-day)                        | 10 (13)                     | 15                | 25                | 35                                | One/week                                     | Grab                                 |
| <b>Total Suspended Solids</b>  | 15 (19)                     | 25                | 40                | 60                                | One/week                                     | Grab                                 |
| Ammonia Nitrogen   | 3 (3.8)                     | 6                 | 10                | 15                                | One/week                                     | Grab                                 |
| <i>E. coli</i> , colony-forming units or most probable number per 100 ml | 63                          | N/A               | N/A               | 200                               | 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. 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 4.0 mg/l and shall be monitored once per week by grab sample.

#### INTERIM II EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon completion of expansion to the 0.30 million gallons per day (MGD) facility and lasting through completion of expansion to the 0.45 MGD facility, the permittee is authorized to discharge subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.30 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 833 gallons per minute.

| Effluent Characteristic  | Discharge Limitations       |                   |                   | Min. Self-Monitoring Requireme |  |                                      |
|--|-----------------------------|-------------------|-------------------|--------------------------------|--|--------------------------------------|
|  | Daily Avg<br>mg/l (lbs/day) | 7-day Avg<br>mg/l | Daily Max<br>mg/l | Single Grab<br>mg/l            | Report Daily Ava<br>Measurement<br>Frequency | g. & Max. Single Grab<br>Sample Type |
| Flow, MGD  | Report                      | N/A               | Report            | N/A                            | Continuous                                   | <b>Totalizing Meter</b>              |
| Carbonaceous Biochemical<br>Oxygen Demand (5-day)                | 10 (25)                     | 15                | 25                | 35                             | One/week                                     | Grab                                 |
| Total Suspended Solids   | 15 (38)                     | 25                | 40                | 60                             | One/week                                     | Grab                                 |
| Ammonia Nitrogen   | 3 (7.5)                     | 6                 | 10                | 15                             | One/week                                     | Grab                                 |
| E. coli, colony-forming units or most probable number per 100 ml | 63                          | N/A               | N/A               | 200                            | 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 4.0 mg/l and shall be monitored once per week by grab sample.

#### FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the completion of expansion to the 0.45 million gallons per day (MGD) facility and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.45 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 1,250 gallons per minute.

| Effluent Characteristic  | Discharge Limitations       |                   |                   |                     | Min. Self-Monitoring Requirements          |                                       |
|--|-----------------------------|-------------------|-------------------|---------------------|--|---------------------------------------|
|  | Daily Avg<br>mg/l (lbs/day) | 7-day Avg<br>mg/l | Daily Max<br>mg/l | Single Grab<br>mg/l | Report Daily A<br>Measurement<br>Frequency | vg. & Max. Single Grab<br>Sample Type |
| Flow, MGD  | Report                      | N/A               | Report            | N/A                 | Continuous                                 | <b>Totalizing Meter</b>               |
| Carbonaceous Biochemical<br>Oxygen Demand (5-day)                | 10 (38)                     | 15                | 25                | 35                  | One/week                                   | Grab                                  |
| Total Suspended Solids   | 15 (56)                     | 25                | 40                | 60                  | One/week                                   | Grab                                  |
| Ammonia Nitrogen   | 3 (11)                      | 6                 | 10                | 15                  | One/week                                   | Grab                                  |
| E. coli, colony-forming units or most probable number per 100 ml | 63                          | N/A               | N/A               | 200                 | 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 5.0 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 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 use or biosolids and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
  - i. date, time and place of sample or measurement;
  - ii. identity of individual who collected the sample or made the measurement.
  - iii. date and time of analysis;
  - iv. identity of the individual and laboratory who performed the analysis;
  - v. the technique or method of analysis; and
  - vi. the results of the analysis or measurement and quality assurance/quality control records.

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

#### 4. Additional Monitoring by Permittee

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

#### 5. Calibration of Instruments

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

#### 6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later

than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

#### 7. Noncompliance Notification

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

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

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. One hundred micrograms per liter (100  $\mu$ 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:
  - 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. The permittee must submit this annual report by September 30<sup>th</sup> of each year, using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

TABLE 1

| <u>Pollutant</u> | <b>Ceiling Concentration</b> |  |  |
|------------------|------------------------------|--|--|
|                  | (Milligrams per kilogram)*   |  |  |
| Arsenic          | <i>7</i> 5                   |  |  |
| Cadmium          | 85                           |  |  |
| Chromium         | 3000                         |  |  |
| Copper           | 4300                         |  |  |
| Lead             | 840                          |  |  |
| Mercury          | 57                           |  |  |
| Molybdenum       | <i>7</i> 5                   |  |  |
| 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:

<u>Alternative 1</u> - 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

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC  $\S$  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.

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

#### Alternative 8 -

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

#### Alternative 9 -

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

#### Alternative 10-

- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When biosolids that is 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<br>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 is 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 must submit this annual report by September 30<sup>th</sup> of each year, using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division ((MC 224).

- 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 TCEO 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 Enforcement Division (MC 224) of the by September 30<sup>th</sup> of each year.

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

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

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

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

#### G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

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

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

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

#### A. General Requirements

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

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

- 1. For sludge 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 transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
- 3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

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

The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

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

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#### **OTHER REQUIREMENTS**

- 1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.
  - This Category 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.
- 3. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).
- 4. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.
- 5. The permittee shall comply with 30 TAC § 311.36, which requires the permittees of all domestic wastewater treatment facilities discharging into the Lake Houston Watershed to install dual-feed chlorination systems capable of automatically changing from one cylinder to another if gaseous chlorination is used for disinfection.
- 6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, one/month may be reduced to one/quarter in the Interim I, Interim II, and Final phases. A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148). The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.
- 7. Prior to construction of the treatment facility, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans and specifications and a final engineering design report which comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the permitted effluent limitations required on Pages 2, 2a, and 2b of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

8. Reporting requirements according to 30 TAC §§ 319.1-319.11 and any additional effluent reporting requirements contained in this permit are suspended from the effective date of the permit until plant startup or discharge from the facility described by this permit, whichever occurs first. The permittee shall provide written notice to the TCEQ Regional Office (MC Region 12) and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five days prior to plant startup or anticipated discharge, whichever occurs first, and prior to completion of each additional phase on Notification of Completion Form 20007.

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

#### **DESCRIPTION OF APPLICATION**

Applicant: Mark D. McDonald and Paul D. Smith;

Texas Pollutant Discharge Elimination System (TPDES) Permit No.

WQ0016515001, EPA I.D. No. TX0145874

Regulated Activity: Domestic Wastewater Permit

Type of Application: New Permit

Request: New Permit

Authority: Federal Clean Water Act (CWA) § 402; Texas Water Code § 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 new permit to authorize the discharge of treated domestic wastewater at a daily average flow not to exceed 0.15 million gallons per day (MGD) in the Interim I phase, a daily average flow not to exceed 0.30 MGD in the Interim II phase, and a daily average flow not to exceed 0.45 MGD in the Final phase. The proposed wastewater treatment facility will serve a residential community in Montgomery County.

#### PROJECT DESCRIPTION AND LOCATION

The Willis 207 Wastewater Treatment Facility will be an activated sludge process plant operated in the complete mix mode. Treatment units in the Interim I phase will include bar screens, an aeration basin, a final clarifier, a sludge digester, and a chlorine contact chamber. Treatment units in the Interim II phase will include bar screens, two aeration basins, two final clarifiers, two sludge digesters, and two chlorine contact chambers. Treatment units in the Final phase will include bar screens, three aeration basins, three final clarifiers, three sludge digesters, and three chlorine contact chambers. The facility has not been constructed.

Sludge generated from the treatment facility will be hauled by a registered transporter to Mount Houston Road MUD Wastewater Treatment Facility, Permit No. WQ0011154001, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The plant site will be located approximately 4,550 feet northwest of the intersection of Bilnoski Road and East Farm-to-Market Road 1097, in Montgomery County, Texas 77378.

#### **Outfall Location:**

| Outfall Number | Latitude    | Longitude   |  |
|----------------|-------------|-------------|--|
| 001            | 30.507464 N | 95.401283 W |  |

The treated effluent will be discharged to an unnamed tributary of Hegar Branch, thence to Hegar Branch, thence to Caney Creek in Segment No. 1010 of the San Jacinto River Basin. The unclassified receiving water uses are high aquatic life use for the unnamed tributary of Hegar Branch and Hegar Branch. The designated uses for Segment No. 1010 are primary contact recreation, public water supply, and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. In accordance with 30 Texas Administrative Code §307.5 and TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in the unnamed tributary of Hegar Branch, Hegar Branch, or Caney Creek, which have all been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

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 not contained in the approved WQMP. However, these limits will be included in the next WQMP update.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1010 is currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list). This listing is for bacteria from State Highway 105 to Farm-to-Market Road

2090 (Assessment Unit 1010\_03). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment. In addition, in order to ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 63 colony-forming units (CFU) or most probable number (MPN) of *Escherichia coli* (*E. coli*) per 100 ml has been added to the draft permit.

Total Maximum Daily Loads (TMDL) Project No. 82 has been approved for this segment: *Fifteen Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston Segments:* 1004E, 1008, 1008H, 1009, 1009C, 1009D, 1009E, 1010, and 1011. Addendums to the original Project No. 82 TMDL subsequently added additional assessment units to the original TMDL project.

On April 6, 2011, the TCEQ adopted Fifteen Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston. The EPA approved the TMDL on June 29, 2011. The TMDL addresses elevated levels of bacteria in nine classified and unclassified segments (Stewarts Creek -1004E; Spring Creek - 1008; Willow Creek - 1008H; Cypress Creek - 1009; Faulkey Gully - 1009C; Spring Gully - 1009D; Little Cypress Creek - 1009E; Caney Creek - 1010; and Peach Creek - 1011) in this watershed. This project takes a watershed approach, so all assessment units in the TMDL segments and in several additional unclassified segments (Mill Creek - 1008A; Upper Panther Branch - 1008B; Lower Panther Branch - 1008C; Metzler Creek - 1008D; Bear Branch - 1008E; Walnut Creek - 1008I; Brushy Creek - 1008J; Arnold Branch - 1008K; Mink Branch - 1008L; Sulphur Branch - 1008M; Dry Creek -1009A; Dry Gully - 1009B; Mound Creek - 1009F; Dry Gully - 1009G; Dry Creek - 1010A; White Oak Creek - 1010B; and Spring Branch - 1010C) are also subject to this TMDL. The waste load allocation (WLA) for wastewater treatment facilities was established as the permitted flow for each facility multiplied by one-half the geometric mean criterion for bacteria. Future growth from existing or new permitted sources is not limited by these TMDLs as long as the sources do not exceed the limits of onehalf the bacteria geometric mean criterion for E coli. To ensure that effluent limitations for this discharge are consistent with the WLAs provided in the TMDL, a concentration based effluent limitation for E. coli of 63 MPN per 100 ml has been included in the draft permit.

#### SUMMARY OF EFFLUENT DATA

Self-reporting data is not available since the facility is not in operation.

#### **DRAFT PERMIT CONDITIONS**

The draft permit authorizes a discharge of treated domestic wastewater at an Interim I volume not to exceed a daily average flow of 0.15 MGD, an Interim II volume not to exceed a daily average flow of 0.30 MGD, and a Final volume not to exceed a daily average flow of 0.45 MGD.

The effluent limitations in the Interim I and Interim II phases of the draft permit, based on a 30-day average, are 10 mg/l five-day carbonaceous biochemical oxygen demand (CBOD $_5$ ), 15 mg/l total suspended solids (TSS), 3 mg/l ammonia-nitrogen (NH $_3$ -N), 63 CFU or MPN of *E. coli* per 100 ml, and 4.0 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 effluent limitations in the Final phase of the draft permit, based on a 30-day average, are 10 mg/l CBOD<sub>5</sub>, 15 mg/l TSS, 3 mg/l NH<sub>3</sub>-N, 63 CFU or MPN of E. coli per 100 ml, and 5.0 mg/l minimum 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.

These effluent limits comply with the requirements of the Lake Houston Watershed Protection Rule (30 TAC 311, Subchapter D).

The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

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 will be hauled by a registered transporter to Mount Houston Road MUD Wastewater Treatment Facility, Permit No. WQ0011154001, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

#### SUMMARY OF CHANGES FROM APPLICATION

The applicant requested effluent limitations, based on a 30-day average, of 10 mg/l CBOD<sub>5</sub>, 15 mg/l TSS, 3 mg/l NH<sub>3</sub>-N, 126 E. coli colonies per 100 ml and 4.0 mg/l minimum DO in all three phases. However, effluent limitations in the Interim I and Interim II phases of the draft permit, based on a 30-day average, are 10 mg/l CBOD<sub>5</sub>, 15 mg/l TSS, 3 mg/l NH<sub>3</sub>-N, 63 CFU or MPN of E. coli per 100 ml and 4.0 mg/l minimum DO. The effluent limitations in the Final phase of the draft permit, based on a 30-day average, are 10 mg/l CBOD<sub>5</sub>, 15 mg/l TSS, 3 mg/l NH<sub>3</sub>-N, 63 CFU or MPN of E. coli per 100 ml and 5.0 mg/l minimum DO.

#### BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

- 1. Application received on March 28, 2024, and additional information received on June 23, 2025.
- 2. The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000. The effluent limitations and conditions in the draft permit comply with the requirements in 30 TAC Chapter 311: Watershed Protection; Subchapter D: Water Quality Management within Lake Houston Watershed.
- 3. 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.
- 4. Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division.
- 5. Consistency with the Coastal Management Plan: The facility is not located in the Coastal Management Program boundary.
- 6. 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.
- 7. 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.

- 8. 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.
- 9. Fifteen Total Maximum Daily Loads for Indicator Bacteria in Watersheds Upstream of Lake Houston Segments: 1004E, 1008, 1008H, 1009, 1009C, 1009D, 1009E, 1010, and 1011 (TMDL Project No. 82).

#### PROCEDURES FOR FINAL DECISION

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

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

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

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

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

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

For additional information about this application, contact John Hearn at (512) 239-5239.

John HearnJuly 7, 2025John HearnDateMunicipal Permits TeamWastewater Permitting Section (MC 148)

# APPLICATION FOR A NEW TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT

#### **FOR**

# WILLIS 207 WASTEWATER TREATMENT PLANT

MARK D. MCDONALD AND PAUL D. SMITH – CO-APPLICANTS 1135 GRAND CENTRAL PARKWAY, SUITE 250 CONROE, TEXAS 77304

PREPARED BY:

# WATERENGINEERS, INC.

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

**MARCH 2024** 

# APPLICATION FOR A NEW TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT

#### **FOR**

#### WILLIS 207

#### WASTEWATER TREATMENT PLANT

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### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

## Complete and submit this checklist with the application.

APPLICANT NAME: Mark D. McDonald

PERMIT NUMBER (If new, leave blank): WQ00 New

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

|                              | Y           | N           |                            | Y           | N           |
|------------------------------|-------------|-------------|----------------------------|-------------|-------------|
| Administrative Report 1.0    | $\boxtimes$ |             | Original USGS Map          | $\boxtimes$ |             |
| 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         | $\boxtimes$ | H           | Original Photographs       | $\boxtimes$ |             |
| Worksheet 2.0                | $\boxtimes$ | <b>X</b>    | <b>Design Calculations</b> | $\boxtimes$ |             |
| Worksheet 2.1                | $\boxtimes$ |             | Solids Management Plan     | $\boxtimes$ | q           |
| Worksheet 3.0                | E           | $\boxtimes$ | Water Balance              |             | $\boxtimes$ |
| Worksheet 3.1                |             | $\boxtimes$ |                            |             |             |
| Worksheet 3.2                |             | $\boxtimes$ |                            |             |             |
| Worksheet 3.3                | E           | $\boxtimes$ |                            |             |             |
| Worksheet 4.0                |             | $\boxtimes$ |                            |             |             |
| Worksheet 5.0                | N.          | $\boxtimes$ |                            |             |             |
| Worksheet 6.0                |             | $\boxtimes$ |                            |             | ٠           |
| Worksheet 7.0                | b           | $\boxtimes$ |                            |             |             |
|                              |             |             |                            |             |             |

| For TCEQ Use Only                                  |                  |
|--|------------------|
| Segment Number<br>Expiration Date<br>Permit Number | County<br>Region |

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#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

## Section 1. Application Fees (Instructions Page 26)

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

| Flow                | New/Major Amendment | Renewal      |
|---------------------|---------------------|--------------|
| <0.05 MGD           | \$350.00 □          | \$315.00 □   |
| ≥0.05 but <0.10 MGD | \$550.00 □          | \$515.00 □   |
| ≥0.10 but <0.25 MGD | \$850.00 □          | \$815.00 □   |
| ≥0.25 but <0.50 MGD | <b>\$1,250.00</b> ⊠ | \$1,215.00 □ |
| ≥0.50 but <1.0 MGD  | \$1,650.00 □        | \$1,615.00 □ |
| ≥1.0 MGD            | \$2,050.00 □        | \$2,015.00   |

Minor Amendment (for any flow) \$150.00 □

| Payment 1 | <b>Information</b> : |
|-----------|----------------------|
|-----------|----------------------|

Mailed Check/Money Order Number: 1302

Check/Money Order Amount: \$1,250.00

Name Printed on Check: WaterEngineers, Inc.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes □

## Section 2. Type of Application (Instructions Page 26)

|                                       | Publicly-Owned Domestic Wastewater                                     |  |  |
|---------------------------------------|--|--|--|
| ☑ Privately-Owned Domestic Wastewater |  |  |  |
| ☐ Conventional Wastewater Treatment   |  |  |  |
| Che                                   | ck the box next to the appropriate facility status.  Active   Inactive |  |  |
|                                       |  |  |  |

| c. | c. Check the box next to the appropriate permit type.  |  |       |  |  |  |  |  |
|----|--|--|-------|--|--|--|--|--|
|    | $\boxtimes$  | TPDES Permit                                     |       |  |  |  |  |  |
|    |  | TLAP   |       |  |  |  |  |  |
|    |  | TPDES Permit with TLAP component                 |       |  |  |  |  |  |
|    |  | Subsurface Area Drip Dispersal System (SAD       | DS)   |  |  |  |  |  |
| d. | Che  | ck the box next to the appropriate application   | ı typ | e                                      |  |  |  |  |
|    | $\boxtimes$  | New  |       |  |  |  |  |  |
|    |  | Major Amendment with Renewal                     |       | Minor Amendment with Renewal           |  |  |  |  |
|    |  | Major Amendment without Renewal                  |       | Minor Amendment <u>without</u> Renewal |  |  |  |  |
|    |  | Renewal without changes                          |       | Minor Modification of permit           |  |  |  |  |
| e. | For  | amendments or modifications, describe the p      | ropo  | sed changes: <u>N/A</u>                |  |  |  |  |
| f. | For  | existing permits:                                |       |  |  |  |  |  |
|    | Permit Number: WQ00 <u>N/A</u>   |  |       |  |  |  |  |  |
|    | EPA I.D. (TPDES only): TX <u>N/A</u>   |  |       |  |  |  |  |  |
|    | Expiration Date: <u>N/A</u>  |  |       |  |  |  |  |  |
| Sa | ctic   | on 3. Facility Owner (Applicant) a               | nd    | Co-Applicant Information               |  |  |  |  |
| 30 | cuc  | (Instructions Page 26)                           | IIU   | Co-Applicant information               |  |  |  |  |
| Α. | The  | owner of the facility must apply for the per     | mit.  |  |  |  |  |  |
|    |  | at is the Legal Name of the entity (applicant) a |       |  |  |  |  |  |
|    |  | k D. McDonald                                    |       |  |  |  |  |  |
|    | (The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or it the legal documents forming the entity.) |  |       |  |  |  |  |  |
|    | _  |  |       |  |  |  |  |  |

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

CN: New

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

Prefix: Mr. Last Name, First Name: McDonald, Mark

Title: Owner Credential: Click to enter text.

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

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

Paul D. Smith

(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: New

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

Prefix: Mr. Last Name, First Name: Smith, Paul

Title: Owner Credential: Click to enter text.

Provide a brief description of the need for a co-permittee: **Both men own property that will comprise the development** 

#### 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. <u>ADMIN.03</u>

## Section 4. Application Contact Information (Instructions Page 27)

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: Ms. Last Name, First Name: Young, Shelley

Title: Engineer Credential: P.E.

Organization Name: WaterEngineers, Inc.

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

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

Check one or both: Administrative Contact M Technical Contact

**B.** Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

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

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

Check one or both: 

Administrative Contact 

Technical Contact

# Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: McDonald, Mark

Title: Owner Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: 11465 Bilnoski Road City, State, Zip Code: Willis, TX 77378

Phone No.: 832-731-1682 E-mail Address: mmcdonald@srsicorp.com

B. Prefix: Mr. Last Name, First Name: Wren, Chris

Title: Managing Member Credential: Click to enter text.

Organization Name: Treaty Oak Developers, LLC

Mailing Address: 1135 Grand Central Pkwy, Ste 250 City, State, Zip Code: Conroe, TX 77304

Phone No.: 936-283-1236 E-mail Address: cwren@treatoakdev.com

### Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Wren, Chris

Title: Managing Member Credential: Click to enter text.

Organization Name: Treaty Oak Developers, LLC

Mailing Address: 1135 Grand Central Pkwy, Ste 250 City, State, Zip Code: Conroe, TX 77304

Phone No.: <u>936-283-1236</u> E-mail Address: <u>cwren@treatoakdev.com</u>

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

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

Prefix: Mr. Last Name, First Name: Wren, Chris

Title: Managing Member Credential: Click to enter text.

Organization Name: Treaty Oak Developers, LLC

Mailing Address: 1135 Grand Central Pkwy, Ste 250 City, State, Zip Code: Conroe, TX 77304

Phone No.: 936-283-1236 E-mail Address: cwren@treatoakdev.com

## Section 8. Public Notice Information (Instructions Page 27)

### A. Individual Publishing the Notices

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

Title: <u>Engineer</u> Credential: <u>P.E.</u>

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Rd, Ste A City, State, Zip Code: Cypress, TX 77429

Phone No.: <u>281-373-0500</u> E-mail Address: <u>syoung@waterengineers.com</u>

|    | Pa  | ckage             |                                |              |   |  |  |
|----|---|-------------------|--------------------------------|--------------|---|--|--|
|    | Inc   | dicate b          | y a check m                    | ark t        | he preferred method for receiving the first notice and instructions:  |  |  |
|    | $\boxtimes$   | E-mai             | l Address                      |              |   |  |  |
|    |   | Fax               |                                |              |   |  |  |
|    |   | Regul             | ar Mail                        |              |   |  |  |
| C. | Co  | ntact p           | ermit to be                    | liste        | d in the Notices  |  |  |
|    | Pre   | efix: <u>Ms</u> . | 1                              |              | Last Name, First Name: Young, Shelley   |  |  |
|    | Tit   | le: <u>Engi</u>   | neer                           |              | Credential: <u>P.E.</u>   |  |  |
|    | Or  | ganizat           | ion Name: <u>V</u>             | Vaterl       | Engineers, Inc.   |  |  |
|    | Ma  | iling Ac          | ldress: <u>1723</u>            | o Huf        | fmeister Rd, Ste A City, State, Zip Code: Cypress, TX 77429   |  |  |
|    | Ph  | one No.           | 281-373-05                     | 00           | E-mail Address: syoung@waterengineers.com   |  |  |
| D. | Pu  | blic Vie          | wing Infor                     | matio        | on  |  |  |
|    | •   | •                 | ity or outfal<br>ist be provid |              | cated in more than one county, a public viewing place for each  |  |  |
|    | Pul   | blic buil         | lding name:                    | <u>R. F.</u> | Meador Library  |  |  |
|    | Loc   | cation w          | vithin the bu                  | ıildin       | g: Reference Desk   |  |  |
|    | Phy   | ysical A          | ddress of B                    | uildir       | ng: 709 W. Montgomery Street  |  |  |
|    | Cit   | y: <u>Willis</u>  | 5, 77378                       |              | County: Montgomery  |  |  |
|    | Co  | ntact (L          | ast Name, F                    | irst N       | Jame): <u>Librarian</u>   |  |  |
|    | Pho   | one No.           | 936-442-77                     | <u>40</u> Ex | ct.: Click to enter text.   |  |  |
| Е. | . Bilingual Notice Requirements   |                   |                                |              |   |  |  |
|    | This information is required for new, major amendment, minor amendment or minor modification, and renewal applications. |                   |                                |              |   |  |  |
|    | be  | needed            |                                | instru       | tion is only used to determine if alternative language notices will actions on publishing the alternative language notices will be in |  |  |
|    | obt   |                   |                                |              | L coordinator at the nearest elementary and middle schools and nation to determine whether an alternative language notices are        |  |  |
|    | 1.  |                   |                                |              | program required by the Texas Education Code at the elementary st to the facility or proposed facility?                               |  |  |
|    |   | $\boxtimes$       | Yes                            |              | No  |  |  |
|    |   | If <b>no</b> , p  | oublication o                  | of an        | alternative language notice is not required; <b>skip to</b> Section 9   |  |  |
|    | 2.  |                   |                                |              | ttend either the elementary school or the middle school enrolled in ogram at that school?   |  |  |
|    |   | $\boxtimes$       | Yes                            |              | No  |  |  |
|    |   |                   |                                |              |   |  |  |

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

|    | 3.  | Do the locatio                |   | these       | e schools attend a bilingual education program at another   |  |  |  |  |  |
|----|---|-------------------------------|---|-------------|---|--|--|--|--|--|
|    |   |                               | Yes                                     | $\boxtimes$ | No  |  |  |  |  |  |
|    | 4. Would the school be required to provide a bilingual education program but the schowaived out of this requirement under 19 TAC §89.1205(g)? |                               |   |             |   |  |  |  |  |  |
|    |   |                               | Yes                                     | $\boxtimes$ | No  |  |  |  |  |  |
|    | 5.  |                               |   |             | <b>uestion 1, 2, 3, or 4</b> , public notices in an alternative language are e is required by the bilingual program? Click to enter text. |  |  |  |  |  |
| F. | Plain Language Summary Template   |                               |   |             |   |  |  |  |  |  |
|    | Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.   |                               |   |             |   |  |  |  |  |  |
|    | Attachment: ADMIN.04  |                               |   |             |   |  |  |  |  |  |
| G. | Public Involvement Plan Form  |                               |   |             |   |  |  |  |  |  |
|    | Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a  |                               |   |             |   |  |  |  |  |  |
|    |   |                               |   |             | dment to a permit and include as an attachment.   |  |  |  |  |  |
|    | At  | tachme                        | nt: <u>ADMIN.o</u>                      | 5           |   |  |  |  |  |  |
| 0  |   |                               | D 14                                    | 1.5         |   |  |  |  |  |  |
| 56 | CU  | on 9.                         | Regulat<br>Page 29                      |             | Entity and Permitted Site Information (Instructions   |  |  |  |  |  |
| A. |   | he site i<br>s site. <b>R</b> | is currently                            |             | ated by TCEQ, provide the Regulated Entity Number (RN) issued to  |  |  |  |  |  |
|    | Sea   | arch the                      | : · · · · · · · · · · · · · · · · · · · |             | degistry at <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a> to determine if ed by TCEQ.               |  |  |  |  |  |
| B. | <b>B.</b> Name of project or site (the name known by the community where located):  |                               |   |             |   |  |  |  |  |  |
|    | Wi  | llis 207 V                    | WWTP                                    |             |   |  |  |  |  |  |
| C. | Ow  | ner of t                      | treatment fa                            | cility:     | Mark D. McDonald & Paul D. Smith  |  |  |  |  |  |
|    | Ow  | nership                       | of Facility:                            |             | Public ⊠ Private □ Both □ Federal   |  |  |  |  |  |
| D. | Ow  | mer of l                      | and where t                             | reatm       | ent facility is or will be:   |  |  |  |  |  |
|    | Pre   | fix: <u>Mr.</u>               |   |             | Last Name, First Name: Smith, Paul  |  |  |  |  |  |
|    | Tit   | le: <u>Onwe</u>               | <u>er</u>                               |             | Credential: Click to enter text.  |  |  |  |  |  |
|    | Org   | ganizati                      | ion Name: Cl                            | ick to      | enter text.   |  |  |  |  |  |
|    | Mailing Address: 10995 Bilnoski City, State, Zip Code: Willis, TX 77378   |                               |   |             |   |  |  |  |  |  |
|    | Phone No.: 832-256-4635 E-mail Address: paul.smith@bldr.com   |                               |   |             |   |  |  |  |  |  |
|    |   |                               |   |             | same person as the facility owner or co-applicant, attach a lease l easement. See instructions.   |  |  |  |  |  |
|    |   | Attach                        | ment: Click                             | to ent      | er text.  |  |  |  |  |  |

|   | Prefix: Click to enter text.  | Last Name, First Name: Click to enter text.   |  |  |  |
|---|---|---|--|--|--|
|   | Title: Click to enter text.   | Credential: Click to enter text.  |  |  |  |
|   | Organization Name: Click to ente  | er text.  |  |  |  |
|   | Mailing Address: Click to enter to  | ext. City, State, Zip Code: Click to enter text.  |  |  |  |
|   | Phone No.: Click to enter text.   | E-mail Address: Click to enter text.  |  |  |  |
|   | If the landowner is not the same agreement or deed recorded ease  | person as the facility owner or co-applicant, attach a lease ement. See instructions.   |  |  |  |
|   | Attachment: Click to enter te   | xt.   |  |  |  |
| F. Owner sewage sludge disposal site (if authorization is requested for sludge disposal or property owned or controlled by the applicant):: |   |   |  |  |  |
|   | Prefix: Click to enter text.  | Last Name, First Name: Click to enter text.   |  |  |  |
|   | Title: Click to enter text.   | Credential: Click to enter text.  |  |  |  |
|   | Organization Name: Click to ente  | er text.  |  |  |  |
|   | Mailing Address: Click to enter to  | ext. City, State, Zip Code: Click to enter text.  |  |  |  |
|   | Phone No.: Click to enter text.   | E-mail Address: Click to enter text.  |  |  |  |
|   | If the landowner is not the same agreement or deed recorded ease  | person as the facility owner or co-applicant, attach a lease ement. See instructions.   |  |  |  |
|   | Attachment: Click to enter te   | xt.   |  |  |  |
|   |   |   |  |  |  |
|   | .' 10 EDDEC D' I  | T C   |  |  |  |
|   |   | ge Information (Instructions Page 31)   |  |  |  |
|   |   | ge Information (Instructions Page 31) ity location in the existing permit accurate?   |  |  |  |
|   |   | · · · · · · · · · · · · · · · · · · ·   |  |  |  |
|   | Is the wastewater treatment facil  ☐ Yes ☐ No  If <b>no, or a new permit application</b>  | ity location in the existing permit accurate?  on, please give an accurate description:   |  |  |  |
|   | Is the wastewater treatment facil  ☐ Yes ☐ No  If <b>no, or a new permit application</b>  | ity location in the existing permit accurate?   |  |  |  |
| A.  | Is the wastewater treatment facil  Yes No  If no, or a new permit application Approximately 4,550 feet northwest Road in Montgomery County  | ity location in the existing permit accurate?  on, please give an accurate description:  et of the intersection of E. Farm-to-Market 1097 and Bilnoski  |  |  |  |
| A.  | Is the wastewater treatment facil  Yes No  If no, or a new permit application Approximately 4,550 feet northwest Road in Montgomery County  Are the point(s) of discharge and   | ity location in the existing permit accurate?  on, please give an accurate description:   |  |  |  |
| A.  | Is the wastewater treatment facil  ☐ Yes ☐ No  If no, or a new permit application Approximately 4,550 feet northwest Road in Montgomery County  Are the point(s) of discharge and ☐ Yes ☐ No  | on, please give an accurate description: It of the intersection of E. Farm-to-Market 1097 and Bilnoski It the discharge route(s) in the existing permit correct?  |  |  |  |
| A.  | Is the wastewater treatment facility    Yes   | ity location in the existing permit accurate?  on, please give an accurate description:  ot of the intersection of E. Farm-to-Market 1097 and Bilnoski  the discharge route(s) in the existing permit correct?  ermit application, provide an accurate description of the   |  |  |  |
| A.  | Is the wastewater treatment facility Yes  No  If no, or a new permit application Approximately 4,550 feet northwest Road in Montgomery County  Are the point(s) of discharge and Yes  No  If no, or a new or amendment perpoint of discharge and the discharge and the discharge 307:   | on, please give an accurate description: It of the intersection of E. Farm-to-Market 1097 and Bilnoski It the discharge route(s) in the existing permit correct?  The ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30   |  |  |  |
| A.  | Is the wastewater treatment facility Yes  No  If no, or a new permit application Approximately 4,550 feet northwest Road in Montgomery County  Are the point(s) of discharge and Yes  No  If no, or a new or amendment perpoint of discharge and the discharge and the discharge 307:   | on, please give an accurate description: It of the intersection of E. Farm-to-Market 1097 and Bilnoski It the discharge route(s) in the existing permit correct?  Permit application, provide an accurate description of the large route to the nearest classified segment as defined in 30 tributary of Hegar Branch; thence to Hegar Branch; thence to  |  |  |  |
| A.  | Is the wastewater treatment facility Yes  No  If no, or a new permit application Approximately 4,550 feet northwest Road in Montgomery County  Are the point(s) of discharge and Yes  No  If no, or a new or amendment perpoint of discharge and the discharge and the discharge TAC Chapter 307:  From the plant site to an unnamed  | on, please give an accurate description: It of the intersection of E. Farm-to-Market 1097 and Bilnoski It the discharge route(s) in the existing permit correct?  Permit application, provide an accurate description of the large route to the nearest classified segment as defined in 30 tributary of Hegar Branch; thence to Hegar Branch; thence to  |  |  |  |
| A.  | Is the wastewater treatment facility Yes  No  If no, or a new permit application Approximately 4,550 feet northwest Road in Montgomery County  Are the point(s) of discharge and  No  If no, or a new or amendment period point of discharge and the discharge and the discharge and the period of the plant site to an unnamed Caney Creek in Segment No. 1010 of the period | on, please give an accurate description: It of the intersection of E. Farm-to-Market 1097 and Bilnoski  It the discharge route(s) in the existing permit correct?  Permit application, provide an accurate description of the large route to the nearest classified segment as defined in 30 tributary of Hegar Branch; thence to Hegar Branch; thence to of the San Jacinto River Basin.   |  |  |  |
| А.  | Is the wastewater treatment facility    Yes   | on, please give an accurate description: It of the intersection of E. Farm-to-Market 1097 and Bilnoski  the discharge route(s) in the existing permit correct?  ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 tributary of Hegar Branch; thence to Hegar Branch; thence to of the San Jacinto River Basin.  // are located: Montgomery discharge to a city, county, or state highway right-of-way, or |  |  |  |

**E.** Owner of effluent disposal site:

|    | If <b>yes</b> , indicate by a check mark if:   |
|----|--|
|    | ☐ Authorization granted ☐ 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: Click to enter text.   |
| D. | For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text. |
| Se | ection 11. TLAP Disposal Information (Instructions Page 32)  |
| A. | For TLAPs, is the location of the effluent disposal site in the existing permit accurate?  |
|    | □ Yes □ No   |
|    | If <b>no, or a new or amendment permit application</b> , provide an accurate description of the disposal site location:  |
|    | Click to enter text.   |
| В. | City nearest the disposal site: Click to enter text.   |
|    | County in which the disposal site is located: Click to enter text.   |
|    | For <b>TLAPs</b> , describe the routing of effluent from the treatment facility to the disposal site:  |
|    | Click to enter text.   |
|    |  |
| E. | For <b>TLAPs</b> , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.   |
|    |  |
| Se | ction 12. Miscellaneous Information (Instructions Page 32)   |
| 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 to enter text.   |

| C.   | Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?   |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  | □ Yes ⊠ No   |  |  |  |  |  |  |  |
|  | If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: Click to enter text.                 |  |  |  |  |  |  |  |
| D.   | Do you owe any fees to the TCEQ?   |  |  |  |  |  |  |  |
|  | □ Yes ⊠ No   |  |  |  |  |  |  |  |
| If <b>yes</b> , provide the following information: |  |  |  |  |  |  |  |  |
| Account number: Click to enter text.               |  |  |  |  |  |  |  |  |
|  | Amount past due: Click to enter text.  |  |  |  |  |  |  |  |
| E.   | Do you owe any penalties to the TCEQ?  |  |  |  |  |  |  |  |
|  | □ Yes ⊠ No   |  |  |  |  |  |  |  |
|  | If <b>yes</b> , please provide the following information:  |  |  |  |  |  |  |  |
|  | Enforcement order number: Click to enter text.   |  |  |  |  |  |  |  |
|  | Amount past due: Click to enter text.  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Se   | ection 13. Attachments (Instructions Page 33)  |  |  |  |  |  |  |  |
| Inc  | dicate which attachments are included with the Administrative Report. Check all that apply:  |  |  |  |  |  |  |  |
|  | Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant. |  |  |  |  |  |  |  |
| $\boxtimes$  | Original full-size USGS Topographic Map with the following information:  |  |  |  |  |  |  |  |
|  | Applicant's property boundary  Transferred for illustrations and the second for illustrations are second for illustrations.  |  |  |  |  |  |  |  |
|  | <ul> <li>Treatment facility boundary</li> <li>Labeled point of discharge for each discharge point (TPDES only)</li> </ul>  |  |  |  |  |  |  |  |
|  | <ul> <li>Highlighted discharge route for each discharge point (TPDES only)</li> </ul>  |  |  |  |  |  |  |  |
|  | <ul> <li>Onsite sewage sludge disposal site (if applicable)</li> <li>Effluent disposal site boundaries (TLAP only)</li> </ul>  |  |  |  |  |  |  |  |
|  | <ul> <li>New and future construction (if applicable)</li> </ul>  |  |  |  |  |  |  |  |
|  | • 1 mile radius information  |  |  |  |  |  |  |  |

• All ponds.

3 miles downstream information (TPDES only)

Other Attachments. Please specify: <u>Admin.o2-Proof of Application Fee, Admin.o3-Core Data</u>
Form, Admin.o4-Plain Language Summary, Admin.o5-Public Involvement Plant, Admin.o6-Downstream
and Adjacent Landowner Map and List, Admin.o7-Photographs, Admin.o8-Buffer Zone Map, Admin.o9SPIF

### Section 14. Signature Page (Instructions Page 34)

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

Permit Number: New

Applicant: Mark D. McDonald & Paul D. Smith

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):   | Mark D. McDonald |       |        |
|--------------------------------------|------------------|-------|--------|
| Signatory title: Owner and Co-Applie | cant             |       |        |
| ,                                    |                  |       |        |
|                                      |                  |       |        |
| Signature:                           |                  | Date: |        |
| (Use blue ink)                       |                  |       |        |
|                                      |                  |       |        |
| Subscribed and Sworn to before m     | a hy the said    |       |        |
|                                      |                  |       |        |
| on this                              | _day of          |       | , 20   |
| My commission expires on the         | day of           |       | , 20   |
|                                      |                  |       |        |
|                                      |                  |       | TV.    |
| er<br>Air                            |                  |       |        |
|                                      |                  |       |        |
| Notary Public                        |                  |       | [SEAL] |
| Notary rubiic                        |                  |       | [SEAL] |
|                                      |                  |       |        |
|                                      |                  |       |        |
| County. Texas                        |                  |       |        |
|                                      |                  |       |        |

# DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

A.

B.

C.

D.

E.

# Section 1. Affected Landowner Information (Instructions Page 36)

|             | ite by a check mark that the landowners map or drawing, with scale, includes the ring information, as applicable:   |
|-------------|---|
|             | he applicant's property boundaries  |
|             | he facility site boundaries within the applicant's property boundaries  |
|             | The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone  |
| 1           | The property boundaries of all landowners surrounding the applicant's property (Note: if he application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)              |
|             | The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream  |
|             | The property boundaries of the landowners located on both sides of the discharge route or one full stream mile downstream of the point of discharge   |
| 1           | he property boundaries of the landowners along the watercourse for a one-half mile adius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides   |
|             | he boundaries of the effluent disposal site (for example, irrigation area or subsurface lrainfield site) and all evaporation/holding ponds within the applicant's property  |
| □ T         | he property boundaries of all landowners surrounding the effluent disposal site   |
| f           | he boundaries of the sludge land application site (for land application of sewage sludge<br>or beneficial use) and the property boundaries of landowners surrounding the<br>pplicant's property boundaries where the sewage sludge land application site is located |
| a           | he property boundaries of landowners within one-half mile in all directions from the pplicant's property boundaries where the sewage sludge disposal site (for example, ludge surface disposal site or sludge monofill) is located                                  |
|             | ndicate by a check mark that a separate list with the landowners' names and mailing sses cross-referenced to the landowner's map has been provided.   |
| Indica      | te by a check mark in which format the landowners list is submitted:  |
| $\boxtimes$ | USB Drive □ Four sets of labels   |
|             | le the source of the landowners' names and mailing addresses: Montgomery County and County Appraisal Districts  |
|             | quired by <i>Texas Water Code § 5.115</i> , is any permanent school fund land affected by oplication?   |
|             | Yes ⊠ No  |

|    |              | es, provide the location and foreseeable impacts and effects this application has on the   |
|----|--------------|--|
|    | lanc         | ck to enter text.  |
|    |              |  |
|    |              |  |
| Se | ectio        | on 2. Original Photographs (Instructions Page 38)  |
|    |              | original ground level photographs. Indicate with checkmarks that the following ation is provided.  |
|    | $\boxtimes$  | At least one original photograph of the new or expanded treatment unit location  |
|    | $\boxtimes$  | At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured. |
|    |              | At least one photograph of the existing/proposed effluent disposal site  |
|    | $\boxtimes$  | A plot plan or map showing the location and direction of each photograph   |
| Se | ectio        | on 3. Buffer Zone Map (Instructions Page 38)   |
|    | Buff<br>info | Fer zone map. Provide a buffer zone map on $8.5 \times 11$ -inch paper with all of the following rmation. The applicant's property line and the buffer zone line may be distinguished by g dashes or symbols and appropriate labels.   |
| R  | Ruff         | The required buffer zone; and Each treatment unit; and   |
| D. |              | ck all that apply.   |
|    | D            | S Ownership  |
|    | C            | Restrictive easement   |
|    |              | Nuisance odor control  |
|    |              | J Variance   |
| C. |              | uitable site characteristics. Does the facility comply with the requirements regarding uitable site characteristic found in 30 TAC § 309.13(a) through (d)?  |
|    | D            | ☑ Yes □ No   |

# DOMESTIC WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Admin.09

#### **ATTACHMENT 1**

#### INDIVIDUAL INFORMATION

### Section 1. Individual Information (Instructions Page 41)

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

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

Full legal name (Last Name, First Name, Middle Initial): McDonald, Mark D.

Driver's License or State Identification Number: TDL 13281131

Date of Birth: 1/22/1968

Mailing Address: 11465 Bilnoski Road

City, State, and Zip Code: Willis, TX 77378

Phone Number: 832-731-1682 Fax Number: Click to enter text.

E-mail Address: mmcdonald@srsicorp.com

CN: New

#### For Commission Use Only:

**Customer Number:** 

Regulated Entity Number:

Permit Number:

#### ATTACHMENT 1

#### INDIVIDUAL INFORMATION

# Section 1. Individual Information (Instructions Page 41)

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

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

Full legal name (Last Name, First Name, Middle Initial): Smith, Paul D.

Driver's License or State Identification Number: TDL 10439677

Date of Birth: 10/30/1965

Mailing Address: 10995 Bilnoski Road

City, State, and Zip Code: Willis, TX 77378

Phone Number: 832-256-4635 Fax Number: Click to enter text.

E-mail Address: paul.smith@bldr.com

CN: New

#### For Commission Use Only:

**Customer Number:** 

Regulated Entity Number:

Permit Number:

# SCOMM/SSIQUE SCOMM/SSIQUE PROMENTAL OUT

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

## Section 1. Permitted or Proposed Flows (Instructions Page 43)

#### A. Existing/Interim I Phase

Design Flow (MGD): <u>0.150</u>

2-Hr Peak Flow (MGD): <u>o.6oo</u>

Estimated construction start date: Q1 2025

Estimated waste disposal start date: Q4 2025

#### **B.** Interim II Phase

Design Flow (MGD): <u>0.300</u>

2-Hr Peak Flow (MGD): 1.400

Estimated construction start date: Q2 2028

Estimated waste disposal start date: Q2 2029

#### C. Final Phase

Design Flow (MGD): <u>0.450</u>

2-Hr Peak Flow (MGD): 1.800

Estimated construction start date: Q3 2031

Estimated waste disposal start date: Q3 2032

#### D. Current Operating Phase

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

## Section 2. Treatment Process (Instructions Page 43)

#### A. Current Operating Phase

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

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

First phase flow will enter the plug flow activated sludge with nitrification plant through a bar screen into the aeration basin, thence to the clarifier, thence to the chlorine contact chamber for disinfection and discharge. Sludge from the bottom of the clarifier will either be returned to the aeration basin or wasted to the digester. Phase 2 will be an exact duplicate of Phase I, with flow first being screened in a screening facility, then going through a flow splitter box, splitting flow 50%-50%. The Final Phase will be an exact duplicate of the previous two phases, with flow being split equally three ways.

#### **B.** Treatment Units

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

Table 1.0(1) - Treatment Units

| Treatment Unit Type           | Number of Units | Dimensions (L x W x D)           |
|-------------------------------|-----------------|----------------------------------|
| Aeration Ph I/Ph II/Ph III    | 1/2/3           | 895 sq. ft. x 14.5 ft SWD (each) |
| Clarifiers Ph I/Ph II/Ph III  | 1/2/3           | 26 ft diam x 14.25 ft SWD (each) |
| Cl2 Contact Ph I/Ph II/Ph III | 1/2/3           | 92 sq ft x 12.5 ft SWD (each)    |
| Digestion Ph I/Ph II/Ph III   | 1/2/3           | 585 sq ft x 14.5 ft SWD (each)   |
|                               |                 |                                  |

#### C. Process Flow Diagram

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

Attachment: TECH.02

### Section 3. Site Information and Drawing (Instructions Page 44)

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

• Latitude: 30.507464

Longitude: -95.401283

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

• Latitude: <u>N/A</u>

Longitude: N/A

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.

| Provide the name and a des  | scription of the area s                     | served by the treatment   | t facility.                |
|---|---|---------------------------|----------------------------|
| The Willis 207 WWTP will ser County.  | ve a currently unnamed                      | d residential community i | n Montgomery               |
| Collection System Informate each uniquely owned collection systems. examples.         | ction system, existing Please see the instr | g and new, served by th   | is facility, including     |
| Collection System Information Collection System Name                                  | Owner Name                                  | Owner Type                | Population Served          |
| Willis 207 Collection System  | McDonald & Smith                            | Privately Owned           | Ultimately 6,000           |
|   |   | Choose an item.           | , ,                        |
|   |   | Choose an item.           |                            |
|   |   | Choose an item.           |                            |
|   |   | ļ.                        |                            |
| Section 4. Unbuilt F  | Phases (Instructi                           | ons Page 45)              |                            |
| Is the application for a rene   | wal of a permit that                        | contains an unbuilt pha   | ase or phases?             |
| □ Yes ⊠ No  |   |                           |                            |
| If yes, does the existing per years of being authorized b                             |   | that has not been const   | tructed <b>within five</b> |
| □ Yes □ No  |   |                           |                            |
| If yes, provide a detailed di Failure to provide sufficier recommending denial of the | nt justification may 1                      | result in the Executive   |                            |
| Click to enter text.  |   |                           |                            |
|   |   |                           |                            |
|   |   |                           |                            |
|   |   |                           |                            |
|   |   |                           |                            |
|   |   | ±                         |                            |
|   |   |                           |                            |

# Section 5. Closure Plans (Instructions Page 45)

**Attachment**: TECH.03

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

|      | □ Yes ⊠ No   |
|------|--|
| If y | ves, was a closure plan submitted to the TCEQ?   |
|      | □ Yes □ No   |
| If y | ves, provide a brief description of the closure and the date of plan approval.   |
| Cl   | ick to enter text.   |
|      |  |
|      |  |
|      | a and a second a second and a second a second and a second a second and a second and a second a second a second a second a second and a |
|      |  |
|      |  |
|      |  |
|      |  |
| Se   | ction 6. Permit Specific Requirements (Instructions Page 45)   |
|      | applicants with an existing permit, check the Other Requirements or Special ovisions of the permit.  |
|      | •  |
|      | Summary transmittal  |
|      | Have plans and specifications been approved for the existing facilities and each proposed phase?   |
|      | □ Yes ⊠ No   |
|      | If yes, provide the date(s) of approval for each phase: Click to enter text.   |
|      | Provide information, including dates, on any actions taken to meet a <i>requirement or</i>   |
|      | provision pertaining to the submission of a summary transmittal letter. Provide a copy of  |
|      | an approval letter from the TCEQ, if applicable.   |
|      | Click to enter text.   |
|      |  |
|      |  |
|      |  |
|      | 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<br>the buffer zone. If available, provide any new documentation relevant to maintaining the   |
|      | buffer zones.  |
|      | Click to enter text.   |
|      |  |
|      |  |
|      |  |

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

C. Other actions required by the current permit

Describe the method of grit disposal.

|    |     | Click to enter text.  |
|----|-----|---|
|    | 4.  | Grease and decanted liquid disposal   |
|    |     | Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.  |
|    |     | Describe how the decant and grease are treated and disposed of after grit separation.   |
|    |     | Click to enter text.  |
| E. | Sto | ormwater management   |
|    | 1.  | Applicability   |
|    |     | Does the facility have a design flow of 1.0 MGD or greater in any phase?  |
|    |     | □ Yes ⊠ No  |
|    |     | Does the facility have an approved pretreatment program, under 40 CFR Part 403?   |
|    |     | □ Yes ⊠ No  |
|    |     | If no to both of the above, then skip to Subsection F, Other Wastes Received.   |
|    | 2.  | MSGP coverage   |
|    |     | Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?   |
|    |     | □ Yes □ No  |
|    |     | <b>If yes</b> , please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:   |
|    |     | TXR05 Click to enter text. or TXRNE Click to enter text.  |
|    |     | If no, do you intend to seek coverage under TXR050000?  |
|    |     | □ Yes □ No  |
|    | 3.  | Conditional exclusion   |
|    |     | Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)? |
|    |     | □ Yes □ No  |
|    |     | <b>If yes</b> , please explain below then proceed to Subsection F, Other Wastes Received:   |

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

|    | Click to enter text.  |    |
|----|---|----|
|    | Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling w require compliance with all individual permit requirements including 2-hour peak flo limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application. |    |
| F. | Discharges to the Lake Houston Watershed  |    |
|    | Does the facility discharge in the Lake Houston watershed?  |    |
|    | ⊠ Yes □ No  |    |
|    | If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions<br>See Attachment TECH.04  | 81 |
| G. | Other wastes received including sludge from other WWTPs and septic waste  |    |
|    | 1. Acceptance of sludge from other WWTPs  |    |
|    | Does or will the facility accept sludge from other treatment plants at the facility site?   |    |
|    | □ Yes ⊠ No  |    |
|    | If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.   |    |
|    | In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an  |    |
|    | estimate of the $BOD_5$ concentration of the sludge, and the design $BOD_5$ concentration of the influent from the collection system. Also note if this information has or has no changed since the last permit action.   |    |
|    | Click to enter text.  |    |
|    | Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.   |    |
|    | 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 the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the  $BOD_5$  concentration of the septic waste, and the design  $BOD_5$  concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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

# Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)

Is the facility in operation?

□ Yes ⊠ No

3.

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

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

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

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

| Pollutant                    | Average<br>Conc. | Max<br>Conc. | No. of<br>Samples | Sample<br>Type | Sample<br>Date/Time |
|------------------------------|------------------|--------------|-------------------|----------------|---------------------|
| CBOD <sub>5</sub> , mg/l     |                  |              |                   |                |                     |
| Total Suspended Solids, mg/l |                  |              |                   |                |                     |
| Ammonia Nitrogen, mg/l       |                  |              |                   |                |                     |
| Nitrate Nitrogen, mg/l       |                  |              |                   |                |                     |

| Total Kjeldahl Nitrogen, mg/l           |  |  |  |
|---|--|--|--|
| Sulfate, mg/l                           |  |  |  |
| Chloride, mg/l                          |  |  |  |
| Total Phosphorus, mg/l                  |  |  |  |
| pH, standard units                      |  |  |  |
| Dissolved Oxygen*, mg/l                 |  |  |  |
| Chlorine Résidual, mg/l                 |  |  |  |
| <i>E.coli</i> (CFU/100ml) freshwater    |  |  |  |
| Entercocci (CFU/100ml)<br>saltwater     |  |  |  |
| Total Dissolved Solids, mg/l            |  |  |  |
| Electrical Conductivity,<br>µmohs/cm, † |  |  |  |
| Oil & Grease, mg/l                      |  |  |  |
| Alkalinity (CaCO <sub>3</sub> )*, mg/l  |  |  |  |

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

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

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

# Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Not yet chosen

Facility Operator's License Classification and Level: Corhigher

Facility Operator's License Number: Click to enter text.

# Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

| A | ١. | WWTP' | S | Biosolids | S | Management | I | acilit | yΊ | ľy | p | e |
|---|----|-------|---|-----------|---|------------|---|--------|----|----|---|---|
|   |    |       |   |           |   |            |   |        |    |    |   |   |

Check all that apply. See instructions for guidance

 $\square$  Design flow>= 1 MGD

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

#### C. Biosolids Management

B.

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

#### **Biosolids Management**

| Management<br>Practice | Handler or<br>Preparer<br>Type                    | Bulk or Bag<br>Container | Amount (dry<br>metric tons) | Pathogen<br>Reduction<br>Options       | Vector<br>Attraction<br>Reduction<br>Option |
|------------------------|---|--------------------------|-----------------------------|--|---|
| Other                  | Off-site<br>Third-Party<br>Handler or<br>Preparer | Not Applicable           |                             | Class B: PSRP<br>Lime<br>Stabilization | Choose an item.                             |
| Choose an item.        | Choose an item.                                   | Choose an item.          |                             | Choose an item.                        | Choose an item.                             |
| Choose an item.        | Choose an item.                                   | Choose an item.          |                             | Choose an item.                        | Choose an item.                             |

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

#### D. Disposal site

Disposal site name: Richey Road MUD WWTP

TCEQ permit or registration number: WQ0011154001

County where disposal site is located: Harris

#### E. Transportation method

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

Name of the hauler: Magna Flow Environmental

Hauler registration number: 21484

Sludge is transported as a:

Liquid ⊠ semi-liquid □ semi-solid □ solid

# Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

#### A.

| Benefi                   | icial us | se au       | ithorization   |
|--------------------------|----------|-------------|--|
| Does t<br>benefi         |          |             | permit include authorization for land application of sewage sludge for   |
|                          | Yes      | $\boxtimes$ | No   |
| <b>If yes,</b><br>benefi | •        |             | questing to continue this authorization to land apply sewage sludge for  |
|                          | Yes      |             | No   |
|                          | Form     |             | pleted <b>Application for Permit for Beneficial Land Use of Sewage Sludge 10451)</b> attached to this permit application (see the instructions for |
|                          | Yes      |             | No   |
|                          |          |             |  |

| B.   | Sludg   | ge processing authorization   |        |            |             |                         |  |  |  |
|------|---|---|--------|------------|-------------|-------------------------|--|--|--|
|      | Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?   |   |        |            |             |                         |  |  |  |
|      | Slu   | udge Composting   |        | Yes        | $\boxtimes$ | No                      |  |  |  |
|      | Ma  | arketing and Distribution of sludge                                     |        | Yes        | $\boxtimes$ | No                      |  |  |  |
|      | Slu   | ıdge Surface Disposal or Sludge Monofill                                |        | Yes        | $\boxtimes$ | No                      |  |  |  |
|      | Te  | mporary storage in sludge lagoons                                       |        | Yes        | $\boxtimes$ | No                      |  |  |  |
| 1    | If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed <b>Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)</b> attached to this permit application?  ☐ Yes ☐ No |   |        |            |             |                         |  |  |  |
| Se   | ction   | 11. Sewage Sludge Lagoons (Ins  | tru    | ctions     | Page        | 2 53)                   |  |  |  |
| Do   | es this   | facility include sewage sludge lagoons?                                 |        |            |             |                         |  |  |  |
|      | □ Y   | es 🛮 No   |        |            |             |                         |  |  |  |
| If y | es, coi   | mplete the remainder of this section. If no,                            | proc   | eed to Se  | ction       | 12.                     |  |  |  |
| A.   | Locati  | ion information   |        |            |             |                         |  |  |  |
|      |   | ollowing maps are required to be submitted<br>de the Attachment Number. | as p   | art of th  | e app       | lication. For each map, |  |  |  |
|      | Original General Highway (County) Map:  |   |        |            |             |                         |  |  |  |
|      |   | Attachment: Click to enter text.  |        |            |             |                         |  |  |  |
|      | •   | USDA Natural Resources Conservation Ser                                 | vice S | Soil Map:  |             |                         |  |  |  |
|      |   | Attachment: Click to enter text.  |        |            |             |                         |  |  |  |
|      | •   | Federal Emergency Management Map:                                       |        |            |             |                         |  |  |  |
|      |   | Attachment: Click to enter text.  |        |            |             |                         |  |  |  |
|      | •   | Site map:   |        |            |             |                         |  |  |  |
|      |   | Attachment: Click to enter text.  |        |            | _           |                         |  |  |  |
|      | Discus<br>apply.  | ss in a description if any of the following ex                          | cist w | ⁄ithin th€ | e lago      | on area. Check all that |  |  |  |
|      |   | Overlap a designated 100-year frequency                                 | flood  | d plain    |             |                         |  |  |  |
|      |   | Soils with flooding classification                                      |        |            |             |                         |  |  |  |
|      |   | Overlap an unstable area  |        |            |             |                         |  |  |  |
|      |   | l Wetlands  |        |            |             |                         |  |  |  |
|      |   | Located less than 60 meters from a fault                                |        |            |             |                         |  |  |  |
|      |   | None of the above   |        |            |             |                         |  |  |  |
|      | Attachment: Click to enter text.  |   |        |            |             |                         |  |  |  |

|    | the protective measures to be utilized including type and size of protective structures:  Click to enter text.   |  |  |  |  |  |  |  |
|----|--|--|--|--|--|--|--|--|
|    |  |  |  |  |  |  |  |  |
|    |  |  |  |  |  |  |  |  |
| D  | Townsers store as information  |  |  |  |  |  |  |  |
| D. | Temporary storage information  |  |  |  |  |  |  |  |
|    | Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in <i>Section 7 of Technical Report 1.0.</i> |  |  |  |  |  |  |  |
|    | Nitrate Nitrogen, mg/kg: Click to enter text.  |  |  |  |  |  |  |  |
|    | Total Kjeldahl Nitrogen, mg/kg: Click to enter text.   |  |  |  |  |  |  |  |
|    | Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.  |  |  |  |  |  |  |  |
|    | Phosphorus, mg/kg: Click to enter text.  |  |  |  |  |  |  |  |
|    | Potassium, mg/kg: Click to enter text.   |  |  |  |  |  |  |  |
|    | pH, standard units: Click to enter text.   |  |  |  |  |  |  |  |
|    | Ammonia Nitrogen mg/kg: Click to enter text.   |  |  |  |  |  |  |  |
|    | Arsenic: Click to enter text.  |  |  |  |  |  |  |  |
|    | Cadmium: Click to enter text.  |  |  |  |  |  |  |  |
|    | Chromium: Click to enter text.   |  |  |  |  |  |  |  |
|    | Copper: Click to enter text.   |  |  |  |  |  |  |  |
|    | Lead: Click to enter text.   |  |  |  |  |  |  |  |
|    | Mercury: Click to enter text.  |  |  |  |  |  |  |  |
|    | Molybdenum: Click to enter text.   |  |  |  |  |  |  |  |
|    | Nickel: Click to enter text.   |  |  |  |  |  |  |  |
|    | Selenium: Click to enter text.   |  |  |  |  |  |  |  |
|    | Zinc: Click to enter text.   |  |  |  |  |  |  |  |
|    | Total PCBs: Click to enter text.   |  |  |  |  |  |  |  |
|    | Provide the following information:   |  |  |  |  |  |  |  |
|    | Volume and frequency of sludge to the lagoon(s): Click to enter text.  |  |  |  |  |  |  |  |
|    | Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.   |  |  |  |  |  |  |  |
|    | Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.  |  |  |  |  |  |  |  |
| C. | Liner information  |  |  |  |  |  |  |  |
|    | Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?  |  |  |  |  |  |  |  |

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

Yes □ No

|    | Clicl | x to enter text.   |
|----|-------|--|
|    |       |  |
|    |       |  |
|    |       |  |
| D. |       | levelopment plan   |
|    |       | de a detailed description of the methods used to deposit sludge in the lagoon(s):  |
|    | Click | t to enter text.   |
|    |       |  |
|    |       |  |
|    |       |  |
|    | Attac | h the following documents to the application.  |
|    | •     | Plan view and cross-section of the sludge lagoon(s)  |
|    |       | Attachment: Click to enter text.   |
|    | •     | Copy of the closure plan   |
|    |       | Attachment: Click to enter text.   |
|    | •     | Copy of deed recordation for the site  |
|    |       | Attachment: Click to enter text.   |
|    | •     | Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons   |
|    |       | Attachment: Click to enter text.   |
|    | •     | Description of the method of controlling infiltration of groundwater and surface water from entering the site  |
|    |       | Attachment: Click to enter text.   |
|    | •     | Procedures to prevent the occurrence of nuisance conditions  |
|    |       | Attachment: Click to enter text.   |
| E. | Groui | ndwater monitoring   |
|    | groun | undwater monitoring currently conducted at this site, or are any wells available for dwater monitoring, or are groundwater monitoring data otherwise available for the e lagoon(s)?          |
|    |       | Yes □ No   |
|    | types | undwater monitoring data are available, provide a copy. Provide a profile of soil encountered down to the groundwater table and the depth to the shallowest dwater as a separate attachment. |
|    | Δt    | tachment: Click to enter text  |

Section 12. Authorizations/Compliance/Enforcement (Instructions

E.

# Page 55)

| A. | Additi         | ional a  | utho        | prizations   |   |
|----|----------------|----------|-------------|--|---|
|    |                |          |             | ee have additional authorizations for this facility, such as reuse udge permit, etc?     |   |
|    |                | Yes      | $\boxtimes$ | No   |   |
|    | If yes,        | provi    | de th       | ne TCEQ authorization number and description of the authorization:                       |   |
| C  | lick to ε      | enter t  | ext.        |  |   |
| В. |                |          |             | rement status  |   |
|    | Is the p       | _        |             | currently under enforcement for this facility?   |   |
|    |                | Yes      | $\boxtimes$ | No   |   |
|    | Is the penforc |          |             | required to meet an implementation schedule for compliance or                            |   |
|    |                | Yes      |             | No   |   |
|    |                |          |             | uestion, provide a brief summary of the enforcement, the implementation current status:  | n |
| Cl | ick to e       | enter to | ext.        |  |   |
| Co | ation          | 12       | D C I       | DA /CEDCI A Mastes (Instructions Descript)   |   |
| 26 | ction          | 13.      | KCI         | RA/CERCLA Wastes (Instructions Page 55)  |   |
| A. | <b>RCRA</b>    | hazar    | dous        | s wastes   |   |
|    |                |          |             | eceived in the past three years, does it currently receive, or will it receive<br>waste? | ĵ |
|    |                | Yes      | $\boxtimes$ | No   |   |

B. Remediation activity wastewater

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

Yes 🛭 No

#### C. Details about wastes received

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

Attachment: Click to enter text.

### Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

#### **CERTIFICATION:**

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

| Printed  | Name    | N/A   | - New | Permit |
|----------|---------|-------|-------|--------|
| Title: C | lick to | enter | text. |        |

| Signature: |  |
|------------|--|
| Date:      |  |

# DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

## Section 1. Justification for Permit (Instructions Page 57)

#### A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

| Mark D. McDonald and Paul D. Smith, Co-applicants, will provide wastewater utility services   |
|---|
| to the proposed Willis 207 single family home community. There are currently 2,000            |
| connections proposed. There are no other facilities in the area that could serve the proposed |
| development. See Attachment TECH.06 - Development Schedule.                                   |
|   |
|   |
|   |
|   |

#### B. Regionalization of facilities

For additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> Treatment<sup>1</sup>.

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

#### 1. Municipally incorporated areas

| If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN |
|--|
| areas.   |
| Is any portion of the proposed service area located in an incorporated city?             |

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment: Click to enter text.

#### 2. Utility CCN areas

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

□ Yes ⊠ No

<sup>1</sup> https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

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

Attachment: Click to enter text.

#### 3. Nearby WWTPs or collection systems

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

⊠ Yes □ No

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

**Attachment**: TECH.07

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

Attachment: TECH.07

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

Attachment: N/A

## Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

□ Yes ⊠ No

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

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

#### A. Current organic loading

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

Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34):  $\underline{\text{Click}}$  to enter text.

Provide the source of the average organic strength or BOD<sub>5</sub> concentration.

| Click to enter text. |  |  |
|----------------------|--|--|
|                      |  |  |
|                      |  |  |
|                      |  |  |

#### **B.** Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

| Source                            | Total Average Flow (MGD) | Influent BOD5<br>Concentration (mg/l) |
|-----------------------------------|--------------------------|---------------------------------------|
| Municipality                      |                          |                                       |
| Subdivision                       | 0.150 / 0.300 / 0.450    | 300 / 300 / 300                       |
| Trailer park - transient          |                          |                                       |
| Mobile home park                  |                          |                                       |
| School with cafeteria and showers |                          |                                       |
| School with cafeteria, no showers |                          |                                       |
| Recreational park, overnight use  |                          |                                       |
| Recreational park, day use        |                          |                                       |
| Office building or factory        |                          |                                       |
| Motel                             |                          |                                       |
| Restaurant                        |                          |                                       |
| Hospital                          |                          |                                       |
| Nursing home                      |                          |                                       |
| Other                             |                          |                                       |
| TOTAL FLOW from all sources       | 0.150 / 0.300 / 0.450    |                                       |
| AVERAGE BOD₅ from all sources     |                          | 300 / 300 / 300                       |

# Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

# A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: <u>E. Coli 126 mpn/100 ml</u>

| B.  | Interim II Phase Design Effluent Quality  |  |  |  |  |
|---|---|--|--|--|--|
| Biochemical Oxygen Demand (5-day), mg/l: 10 |   |  |  |  |  |
|   | Total Suspended Solids, mg/l: <u>15</u>   |  |  |  |  |
|   | Ammonia Nitrogen, mg/l: 3   |  |  |  |  |
|   | Total Phosphorus, mg/l: <u>N/A</u>  |  |  |  |  |
|   | Dissolved Oxygen, mg/l: 4   |  |  |  |  |
|   | Other: <u>E. Coli 126 mpn/100 ml</u>  |  |  |  |  |
| C.  | Final Phase Design Effluent Quality   |  |  |  |  |
|   | Biochemical Oxygen Demand (5-day), mg/l: 10   |  |  |  |  |
|   | Total Suspended Solids, mg/l: <u>15</u>   |  |  |  |  |
|   | Ammonia Nitrogen, mg/l: 3   |  |  |  |  |
|   | Total Phosphorus, mg/l: <u>N/A</u>  |  |  |  |  |
|   | Dissolved Oxygen, mg/l: 4   |  |  |  |  |
|   | Other: <u>E. Coli 126 mpn/100 ml</u>  |  |  |  |  |
| D.  | . Disinfection Method   |  |  |  |  |
|   | Identify the proposed method of disinfection.   |  |  |  |  |
|   | oxtimes Chlorine: 1-4 mg/l after 20 minutes detention time at peak flow   |  |  |  |  |
|   | Dechlorination process: N/A   |  |  |  |  |
|   | ☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow   |  |  |  |  |
|   | □ Other: <u>Click to enter text.</u>  |  |  |  |  |
| C o   | stion 4 Design Coloulations (Instructions Bore 50)  |  |  |  |  |
|   | ction 4. Design Calculations (Instructions Page 59)   |  |  |  |  |
|   | tach design calculations and plant features for each proposed phase. Example 4 of the structions includes sample design calculations and plant features.  |  |  |  |  |
|   | Attachment: TECH.01   |  |  |  |  |
|   |   |  |  |  |  |
| Se  | ction 5. Facility Site (Instructions Page 60)   |  |  |  |  |
| A.  | 100-year floodplain   |  |  |  |  |
|   | Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?  |  |  |  |  |
|   | ⊠ Yes □ No  |  |  |  |  |
|   | <b>If no</b> , describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures. |  |  |  |  |

Click to enter text.

|    | Provide the source(s) used to determine 100-year frequency flood plain.   |    |
|----|---|----|
|    | FEMA Flood Map 48339C0125G  |    |
|    | For a new or expansion of a facility, will a wetland or part of a wetland be filled?  |    |
|    | □ Yes ⊠ No  |    |
|    | <b>f yes</b> , has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit   | t? |
|    | □ Yes □ No  |    |
|    | <b>f yes</b> , provide the permit number: <u>Click to enter text.</u>   |    |
|    | <b>f no,</b> provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.   |    |
| B. | Wind rose   |    |
|    | Attach a wind rose: <u>Included on Attachment TECH.o3</u>   |    |
| Se | tion 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)  |    |
| Α. | Beneficial use authorization  |    |
|    | Are you requesting to include authorization to land apply sewage sludge for beneficial to property located adjacent to the wastewater treatment facility under the wastewater permit?   |    |
|    | □ Yes ⊠ No  |    |
|    | f yes, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451): Click to enter text.   | :  |
| B. | Sludge processing authorization   |    |
|    | dentify the sludge processing, storage or disposal options that will be conducted at the vastewater treatment facility:   | ĵ  |
|    | □ Sludge Composting   |    |
|    | ☐ Marketing and Distribution of sludge  |    |
|    | ☐ Sludge Surface Disposal or Sludge Monofill  |    |
|    | f any of the above, sludge options are selected, attach the completed Domestic Vastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 0056): Click to enter text. |    |
| Se | tion 7. Sewage Sludge Solids Management Plan (Instructions Pag<br>61)   | e  |

Attach a solids management plan to the application.

Attachment: TECH.04

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

Treatment units and processes dimensions and capacities

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

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

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

| Section 1. Domestic Drinking Water Supply (Instructions Page 64)  |
|---|
| Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge? |
| □ Yes ⊠ No  |
| If <b>no</b> , proceed it Section 2. <b>If yes</b> , provide the following:   |
| Owner of the drinking water supply: Click to enter text.  |
| Distance and direction to the intake: Click to enter text.  |
| Attach a USGS map that identifies the location of the intake.   |
| Attachment: Click to enter text.  |
| Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)  |
| Does the facility discharge into tidally affected waters?   |
| □ Yes ⊠ No  |
| If <b>no</b> , proceed to Section 3. <b>If yes</b> , complete the remainder of this section. If no, proceed to Section 3.                           |
| A. Receiving water outfall  |
| Width of the receiving water at the outfall, in feet: Click to enter text.  |
| B. Oyster waters  |
| Are there oyster waters in the vicinity of the discharge?   |
| □ Yes □ No  |
| If yes, provide the distance and direction from outfall(s).   |
| Click to enter text.  |
| C. Sea grasses  |
| Are there any sea grasses within the vicinity of the point of discharge?  |
| □ Yes □ No  |
| If yes, provide the distance and direction from the outfall(s).   |
| Click to enter text.  |

#### Section 3. Classified Segments (Instructions Page 64) Is the discharge directly into (or within 300 feet of) a classified segment? $\boxtimes$ Yes No If yes, this Worksheet is complete. If no, complete Sections 4 and 5 of this Worksheet. **Description of Immediate Receiving Waters (Instructions** Section 4. **Page 65)** Name of the immediate receiving waters: unnamed tributary of Hegar Branch A. Receiving water type Identify the appropriate description of the receiving waters. $\boxtimes$ Stream Freshwater Swamp or Marsh Lake or Pond Surface area, in acres: Click to enter text. Average depth of the entire water body, in feet: Click to enter text. Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text. Man-made Channel or Ditch Open Bay Tidal Stream, Bayou, or Marsh Other, specify: Click to enter text. **B.** Flow characteristics If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area upstream of the discharge. For new discharges, characterize the area downstream of the discharge (check one). Intermittent - dry for at least one week during most years Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses Perennial - normally flowing Check the method used to characterize the area upstream (or downstream for new dischargers). 7. USGS flow records Historical observation by adjacent landowners Personal observation $\boxtimes$ Other, specify: Click to enter text.

| C.   | Down   | stream perennial confluences  |             |  |
|--|--|---|-------------|--|
| List the names of all perennial streams that join the receiving water within three adownstream of the discharge point. |  |   |             |  |
|  | Hegai  | Branch and Caney Creek  |             |  |
|  |  |   |             |  |
| D.   | Down   | stream characteristics  |             |  |
|  |  | receiving water characteristics<br>rge (e.g., natural or man-made o |             | vithin three miles downstream of the nds, reservoirs, etc.)? |
|  |  | Yes ⊠ No  |             |  |
|  | If yes,  | discuss how.  |             | ā  |
|  | Click  | to enter text.  |             |  |
|  |  |   |             |  |
|  |  |   |             |  |
|  |  |   |             |  |
| E.   | Norma  | al dry weather characteristics                                      |             |  |
|  | Provide general observations of the water body during normal dry weather conditions.                         |   |             |  |
|  | Stream is normally flowing, even during dry weather conditions, due to being fed by a small spring upstream. |   |             |  |
|  | spring   | <u>upstream.</u>  |             |  |
|  |  |   |             |  |
|  |  |   |             |  |
|  |  | nd time of observation: <u>3/14/20</u>                              | 7,77,7      |  |
|  | Was th   | e water body influenced by stor                                     | rmwater i   | runoff during observations?                                  |
|  |  | Yes ⊠ No  |             |  |
| Se   | ction  | 5. General Characteris  | stics of    | the Waterbody (Instructions                                  |
|  |  | Page 66)  |             |  |
| Α.   | Upstre   | am influences   |             |  |
|  |  | mmediate receiving water upstraced by any of the following? Ch      |             | he discharge or proposed discharge site nat apply.           |
|  |  | Oil field activities  |             | Urban runoff   |
|  |  | Upstream discharges   | $\boxtimes$ | Agricultural runoff  |
|  |  | Septic tanks  | 1000        | Other(s), specify: Click to enter text.                      |

| B.   | Waterb  | oody uses  |             |  |
|--|---|--|-------------|--|
|  | Observed or evidences of the following uses. Check all that apply.                                    |  |             |  |
|  | $\boxtimes$   | Livestock watering   |             | Contact recreation                                     |
|  |   | Irrigation withdrawal  |             | Non-contact recreation                                 |
|  |   | Fishing  |             | Navigation   |
|  |   | Domestic water supply  |             | Industrial water supply                                |
|  |   | Park activities  | $\boxtimes$ | Other(s), specify: unknown                             |
| C.   | Waterb  | oody aesthetics  |             |  |
| Check one of the following that best describes the aesthetics of the receiving water and the surrounding area. |   |  |             |  |
|  | ☑ Wilderness: outstanding natural beauty; usually wooded or unpastured area; wate clarity exceptional |  |             |  |
|  |   | Natural Area: trees and/or native v<br>fields, pastures, dwellings); water | _           | ation; some development evident (from<br>ty discolored |
|  |   | Common Setting: not offensive; de or turbid                                | velop       | oed but uncluttered; water may be colored              |
|  |   | Offensive: stream does not enhance dumping areas; water discolored         | e aes       | thetics; cluttered; highly developed;                  |
|  |   |  |             |  |

C.

Stream survey was unable to be performed due to discharge being at the edge of the applicant's property and the downstream portion being on others' private property

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

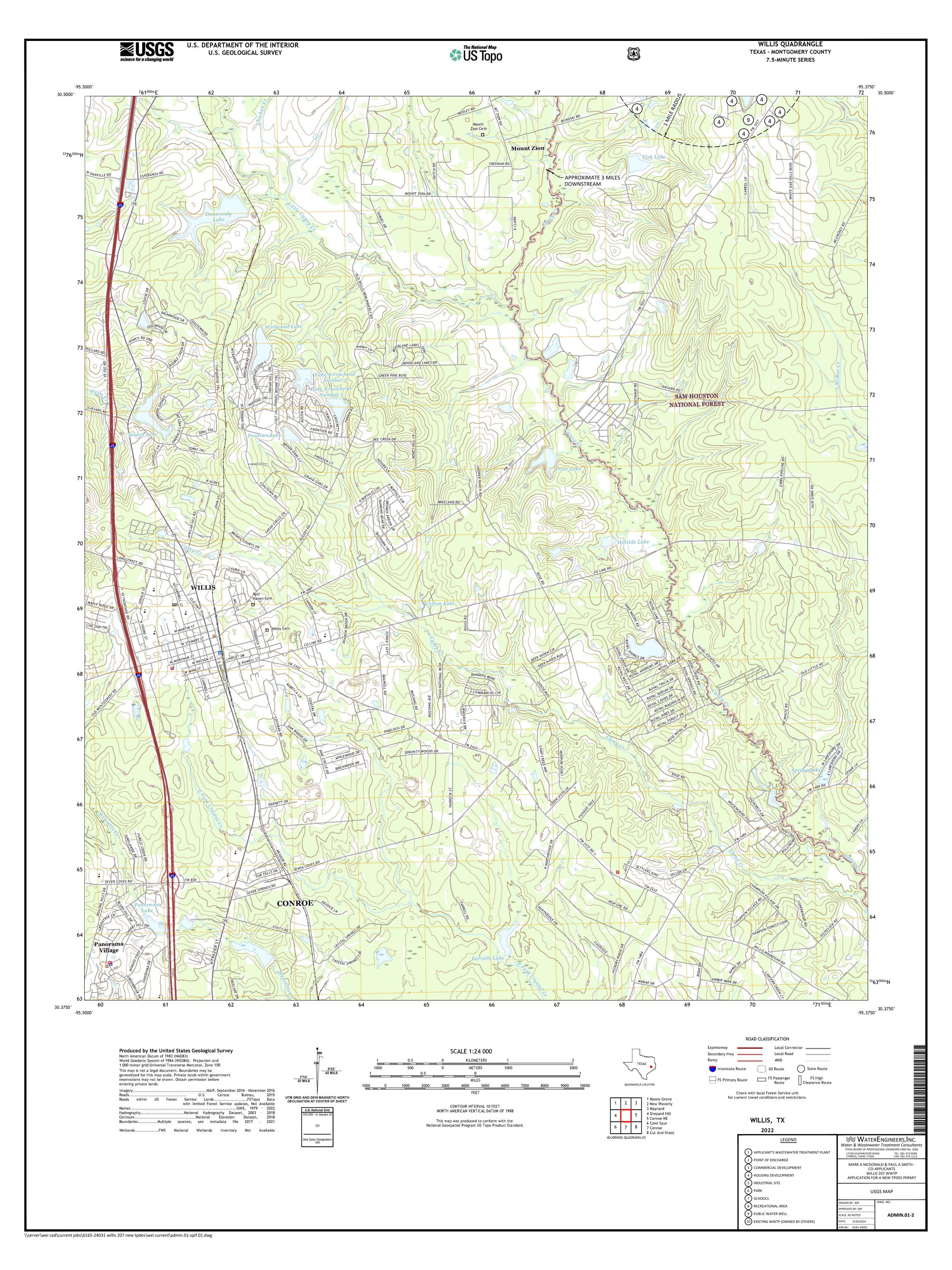
Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

| Section 1. General information (instructions Page 66)  |
|--|
| Date of study: Click to enter text. Time of study: Click to enter text.  |
| Stream name: Click to enter text.  |
| Location: Click to enter text.   |
| Type of stream upstream of existing discharge or downstream of proposed discharge (check one).                       |
| ☐ Perennial ☐ Intermittent with perennial pools  |
| Section 2. Data Collection (Instructions Page 66)  |
| Number of stream bends that are well defined: Click to enter text.   |
| Number of stream bends that are moderately defined: Click to enter text.   |
| Number of stream bends that are poorly defined: Click to enter text.   |
| Number of riffles: Click to enter text.  |
| Evidence of flow fluctuations (check one):   |
| □ Minor □ moderate □ severe  |
| Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification. |
| Click to enter text.   |

# ATTACHMENT ADMIN.01 USGS Topographic Map

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





## **Proof of Payment**

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

## WATER QUALITY PERMIT

### PAYMENT SUBMITTAL FORM

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

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

#### Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WOP Waste Permit No: New

1. Check or Money Order Number: 1302

2. Check or Money Order Amount: \$1,250.00

3. Date of Check or Money Order: 3/19/2024

4. Name on Check or Money Order: WaterEngineers, Inc.

5. APPLICATION INFORMATION

Name of Project or Site: Willis 207 WWTP

Physical Address of Project or Site: 4,550 feet northwest of the intersection of E. FM 1097 and Bilnoski Road in Montgomery County

If the check is for more than one application, attach a list which includes the name of each nd Dhysical Address, evently as provided on the application

WATERENGINEERS, INC.

17230 HUFFMEISTER ROAD, SUITE A CYPRESS, TX 77429 (281) 373-0500

AmegyBank.

P.O. Box 27459 Houston, Texas 77227-7459 AmegyBank.com • 713-235-8810 35-1125/1130

3/19/2024

PAY TO THE ORDER OF

**TCEQ** 

\*1,250.00

One Thousand Two Hundred Fifty and 00/100\*\*

1302

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

VOID AFTER NINETY DAYS

мемо

New TPDES Permit- Mark McDonald & Paul S MI +h

#\*\*OOOO 130 2#\*\* | | 11130 11258 | 580 1322529#

## **Core Data Form**

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



**TCEQ Core Data Form** 

| TCEQ Use Only |  |
|---------------|--|
|               |  |

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

| <u>SECTION I: G</u> | eneral In | <u>formation</u> |
|---------------------|-----------|------------------|
|---------------------|-----------|------------------|

| DOTTON   | 11 001   | CI UI IIIIOI II         | IIIIII               |            |                   |           |         |                                  |                       |            |        |                        |
|--|--|-------------------------|----------------------|------------|-------------------|-----------|---------|----------------------------------|-----------------------|------------|--------|------------------------|
| 1. Reason for Submission (If other is checked please describe in space provided.)  New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)  |  |                         |                      |            |                   |           |         |                                  |                       |            |        |                        |
|  |  |                         |                      |            |                   |           |         |                                  |                       | ation.)    |        |                        |
|  |  | ata Form should         |                      | vith the r | enewal fo         | rm)       |         | Other                            |                       |            |        |                        |
| 2. Custome   | Referenc   | e Number <i>(if iss</i> | sued)                |            | this link to      |           | 3. F    | Regu                             | lated Entity Refe     | rence Nu   | mber   | (if issued)            |
| CN   | CN for CN or RN nu Central Reg   |                         |                      |            |                   |           |         | N                                |                       |            |        |                        |
| ECTION   | II: Cu   | stomer Info             | ormation             |            |                   |           |         |                                  |                       |            |        |                        |
| 4. General C   | ustomer  | Information             | 5. Effective         | Date for   | Custome           | er Infori | natio   | n Up                             | dates (mm/dd/yyy      | y)         |        |                        |
| ☑ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership   |  |                         |                      |            |                   |           |         |                                  | Intity Ownership      |            |        |                        |
|  |  |                         |                      |            |                   |           |         |                                  | er of Public Accou    |            |        |                        |
|  |  |                         | -                    | •          |                   |           | •       |                                  |                       | curren     | t and  | active with the        |
|  |  | f State (SOS)           |                      |            |                   |           | _       | _                                | 50 N N                | 101        |        |                        |
| 6. Customer  | Legal Na   | me (If an individua     | l, print last name   | first: eg: | Doe, John         | )         |         | f new                            | Customer, enter p     | revious C  | ustome | r below:               |
| Mark A. I  |  |                         |                      |            |                   |           |         |                                  |                       |            |        |                        |
| 7. TX SOS/C  | •  | Number                  | 8. TX State 1        | •          | l digits)         |           | 9       | ). Fed                           | derał Tax ID (9 digit | s) 10.     | DUNS   | Number (if applicable) |
| N/A-Indiv  | divid N/A-Individ  |                         |                      |            |                   |           |         |                                  |                       |            |        |                        |
| 11. Type of  | 1. Type of Customer:   |                         |                      |            |                   |           |         | Partnership: ☐ General ☐ Limited |                       |            |        |                        |
|  |  | County  Federal         | ☐ State ☐ Other      |            | ☐ Sole            | Propriet  | ·       |                                  | Other:                |            |        |                        |
| <b>12. Number</b>  | of Employ<br>] 21-100  | /ees 101-250            | 251-500              | <u></u> 50 | )1 and hig        | her       | 1       | 3. In<br>Y€                      | dependently Owi<br>es |            | Opera  | ted?                   |
| 14. Custome  | <b>r Role</b> (Pr  | oposed or Actual) -     | - as it relates to t | the Regul  | ated Entity       | listed or | this f  | orm. F                           | Please check one of   | the follow | ing:   |                        |
| ⊠Owner   |  | ☐ Opera                 | tor                  |            | Owner             | & Opera   | ator    |                                  |                       |            |        |                        |
| Occupation   | nal Licens   | ee 🗌 Respo              | onsible Party        |            | ] Volunta         | ry Clea   | nup A   | pplic                            | ant                   | r:         |        |                        |
|  | 11465  | Bilnoski Roa            | ad                   |            |                   |           |         |                                  |                       |            |        |                        |
| 15. Mailing<br>Address:  |  |                         | _                    |            |                   |           |         |                                  |                       |            |        |                        |
| Addiess.   | City   | Willis                  |                      | Stat       | e TX              |           | ZIP     | 7                                | 7378                  | ZIP        | + 4    |                        |
| 16. Country  | Mailing In   | formation (if outsi     | ide USA)             |            |                   | 17. E     | -Mail   | Addı                             | ress (if applicable)  |            |        |                        |
|  |  |                         |                      |            |                   | mm        | cdor    | nald                             | @srsicorp.com         | n          |        |                        |
| 18. Telephoi   | 8. Telephone Number   19. Extension or Code   20. Fax Number (if applicable) |                         |                      |            |                   |           |         | le)                              |                       |            |        |                        |
| (832)731-1682 ( ) -  |  |                         |                      |            |                   |           |         |                                  |                       |            |        |                        |
| ECTION   | III: Re  | egulated En             | tity Infor           | matio      | n                 |           |         |                                  |                       |            |        |                        |
| 21. General F  | Regulated  | Entity Informati        | on (If 'New Re       | gulated L  | =<br>Entity" is s | elected   | belov   | v this                           | form should be a      | compani    | ed by  | a permit application)  |
| New Regulation     New | ulated Enti  | ty 🔲 Update             | to Regulated E       | intity Nar | ne 🗌              | Update    | to Re   | egula                            | ted Entity Informa    | tion       |        |                        |
| _  |  | •                       | -                    | -          |                   | orde      | r to n  | neet                             | TCEQ Agenc            | y Data :   | Stand  | lards (removal         |
|  |  | ndings such             |                      |            |                   |           |         |                                  |                       |            |        |                        |
|  |  | ame (Enter name         |                      | the regul  | ated actior       | is taking | g place | ).)                              |                       | _          |        |                        |
| Willis 207   | Wastey   | vater Treatme           | ent Plant            |            |                   |           |         |                                  |                       |            |        |                        |

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| 23. Street Address                                    | of                | No address has been assigned |                     |          |                   |          |                        |         |             |                         |       |           |      |                |
|---|-------------------|------------------------------|---------------------|----------|-------------------|----------|------------------------|---------|-------------|-------------------------|-------|-----------|------|----------------|
| the Regulated Entity                                  |                   |                              |                     |          |                   | -11      |                        |         | 1-1         |                         |       |           |      |                |
| (No PO Boxes)   |                   | City                         |                     |          | State             |          | ZIF                    | P       |             |                         |       | ZIP + 4   |      |                |
| 24. County  |                   | Kaufma                       | n                   |          |                   |          |                        |         |             |                         | 1189  |           |      | ,              |
|   |                   | Ent                          | er Physical L       | ocatio   | n Description     | if no    | street add             | dress   | is prov     | ided.                   |       |           | _    |                |
| 25. Description to                                    |                   | Approxi                      | mately 4,5          | 50 fe    | et northwe        | st of    | the inte               | rsec    | tion of     | E. Farm                 | -to   | -Mark     | et   | Road           |
| Physical Location:                                    |                   | 1097 and                     | d Bilnoski 1        | Road     | l in Montgo       | omer     | y Count                | .y      |             |                         |       |           |      |                |
| 26. Nearest City                                      | t City            |                              |                     |          |                   |          |                        |         | State       | )                       |       | N         | ear  | est ZIP Code   |
| Willis  |                   |                              |                     |          |                   | jo       |                        |         | TX          |                         |       | 7         | 73   | 78             |
| 27. Latitude (N) In                                   | Decim             | al:                          | 30.507478           | 3        |                   |          | 28. Longi              | itude   | (W) l       | n Decimal:              | 9     | 5.4010    | 061  |                |
| Degrees   |                   | Minutes                      |                     | Seco     |                   |          | Degrees                |         |             | Minutes                 |       |           |      | Seconds        |
| 30  |                   | 3                            | 30                  |          | 26.92             |          | -                      | .95     |             |                         | 24    |           |      | 03.82          |
| 29. Primary SIC Cod                                   | <b>de</b> (4 digi | ts) 30.                      | Secondary SI        | C Cod    | le (4 digits)     |          | rimary NA<br>digits)   | AICS    | Code        | <b>32. S</b><br>(5 or 6 |       |           | IAIC | CS Code        |
| 6552  |                   |                              |                     |          |                   | 237      | -                      |         |             | (0 010                  | uigia | .,        |      |                |
| 33. What is the Prim                                  | nary Bu           | siness of t                  | his entity?         | 'Do not  | repeat the SIC or |          |                        |         |             | l.                      |       |           |      |                |
| Developing land                                       |                   |                              |                     |          |                   |          |                        |         |             |                         |       |           |      |                |
|   |                   |                              | 11465 Bilnoski Road |          |                   |          |                        |         |             |                         |       |           |      |                |
| 34. Mailing   |                   |                              |                     |          |                   |          |                        |         |             |                         |       |           |      |                |
| Address:  |                   | City                         | Willis              |          | State             | Т        | x                      | ZIP     |             | 77378                   |       | ZIP+      | 4    |                |
| 35. E-Mail Add  | lress:            |                              |                     |          |                   |          | sbellesco              |         | nail.com    |                         |       |           |      |                |
|   | _                 | e Number                     |                     |          | 37. Extensio      |          |                        | Co      |             | 8. Fax Num              | nber  | (if app   | lica | ble)           |
| ( 8   | 32 ) 73           | 1-1682                       |                     |          |                   |          |                        |         |             | (                       | )     | •         |      |                |
| 9. TCEQ Programs ar<br>orm. See the Core Data F       | nd ID N           | umbers Che                   | eck all Programs    | and w    | rite in the permi | ts/regis | stration num           | nbers t | that will b | e affected by           | the i | updates   | subr | nitted on this |
| ☐ Dam Safety  |                   | Districts                    |                     |          | Edwards Aquifer   |          | ☐ Em                   | nission | ns Invento  | ory Air                 |       | ndustrial | Haz  | ardous Waste   |
|   |                   |                              |                     |          |                   |          |                        |         |             |                         |       |           |      |                |
| Municipal Solid Wa                                    | iste              | ☐ New Sou                    | rce Review Air      |          | OSSF              |          | Petroleum Storage Tank |         |             |                         | ☐ PWS |           |      |                |
|   |                   |                              |                     | <u> </u> |                   |          |                        |         |             |                         |       |           |      |                |
| Sludge  | - 1               | Storm Wa                     | ater                | Ш        | Title V Air       |          | ☐ Tire                 | es      |             |                         | П     | Jsed Oil  |      |                |
| ☐ Voluntary Cleanup                                   |                   |                              |                     |          |                   |          |                        | Other:  |             |                         |       |           |      |                |
|   |                   | New                          |                     |          |                   |          |                        |         | <u> </u>    |                         |       |           |      |                |
| SECTION IV: 1   |                   |                              | ormation            |          |                   |          |                        |         |             |                         |       |           |      |                |
| 40. Name: Shelle                                      | ey Yo             | ung                          |                     |          |                   |          | 41. Title:             |         | Consu       | lting Eng               | gine  | eer       |      |                |
| 42. Telephone Numbe                                   |                   | 43. Ext./0                   | Code 4              | 4. Fax   | Number            |          | 45. E-Ma               | ail Ac  | ddress      |                         |       |           |      |                |
| (281) 373-0500  |                   |                              | (                   | 281      | ) 373-1113        |          | syoun                  | g@v     | watere      | ngineers.               | cor   | n         |      |                |
| SECTION V: A  | utho              | rized S                      | ignature            |          |                   |          |                        |         |             |                         |       |           |      |                |
| <b>6.</b> By my signature be ignature authority to su | low, I c          | ertify, to the               | e best of my ki     |          |                   |          |                        |         |             |                         |       |           |      |                |

signature authority to identified in field 39.

| Company:        | WaterEngineers, Inc. | Job Title: | Engineer |        | ·              |
|-----------------|----------------------|------------|----------|--------|----------------|
| Name(In Print): | Shelley Young, P.E.  |            |          | Phone: | (281) 373-0500 |
| Signature:      | Shelley Young        |            |          | Date:  | 3/19/2024      |
|                 |                      |            |          |        |                |

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## **TCEQ Core Data Form**

| TCEQ Use Only |  |
|---------------|--|
|               |  |

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

|  |                              | ssion (If other is        |                                       |             |                                    | •          | •                 | •                                  | .,           |   |                 |                          |
|--|------------------------------|---------------------------|---------------------------------------|-------------|------------------------------------|------------|-------------------|------------------------------------|--------------|---|-----------------|--------------------------|
|  |                              | stration or Authori       | · · · · · · · · · · · · · · · · · · · |             |                                    |            |                   |                                    |              | rogram applica                            | tion.)          |                          |
|  |                              | Data Form should          |                                       | ith the     | renew                              | al forn    | n)   L            | Oth                                |              |   |                 |                          |
| 2. Customer  | Referenc                     | ce Number <i>(if i</i> ss | ued)                                  | for Cl      | w this lin<br>N or RN<br>entral Re | numbe      | ers in            | 3. Rec                             | julate       | d Entity Refer                            | ence Number     | (if issued)              |
| ECTION   | II: Cu                       | stomer Info               | rmation                               |             |                                    |            |                   |                                    |              |   |                 |                          |
| 4. General C   | ustomer                      | Information               | 5. Effective D                        | Date fo     | or Cust                            | tomer      | Inform            | ation l                            | Jpdate       | es (mm/dd/yyy)                            | )               |                          |
| ☑ New Customer       ☐ Update to Customer Information       ☐ Change in Regulated Entity Ownership         ☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) |                              |                           |                                       |             |                                    |            |                   |                                    |              |   |                 |                          |
| The Custo  | mer Na                       | me submitted              | here may be                           | e upo       | dated                              | auto       | matic             | ally b                             | ased         | on what is                                | current and     | active with the          |
| Texas Sec  | retary c                     | of State (SOS)            | or Texas Co                           | mpt         | roller                             | of Pu      | ıblic A           | lccou                              | nts (        | CPA).                                     |                 |                          |
| 6. Customer  | Legal Na                     | me (If an individua       | l, print last name                    | first: e    | g: Doe,                            | John)      |                   | <u>If ne</u>                       | ew Cu        | stomer, enter pr                          | evious Custom   | er below:                |
| Paul D. Si   | mith                         |                           |                                       |             |                                    |            |                   |                                    |              |   |                 |                          |
| 7. TX SOS/C  | _                            | Number                    | 8. TX State T                         | ax ID       | (11 digits                         | ;)         |                   | 9. F                               | edera        | al Tax ID (9 digits                       | 10. DUN         | S Number (if applicable) |
| N/A-Indiv  | /id                          | -                         | N/A-Indiv                             | id          |                                    |            |                   |                                    | -            |   |                 |                          |
| 11. Type of 0  | rpe of Customer: Corporation |                           |                                       |             |                                    | ndividu    | ıal               | l Partnership: ☐ General ☐ Limited |              |   |                 |                          |
| Government:  | City 🗌                       | County   Federal          | ] State ☐ Other                       |             |                                    | Sole Pr    | oprieto           | rship                              |              | Other:                                    |                 |                          |
| <b>12. Number</b>  | of Emplo                     | yees                      | 251-500                               |             | 501 an                             | d high     | er                |                                    | Indep<br>Yes | endently Own                              | •               | ited?                    |
| 14. Custome  | er Role (P                   | roposed or Actual) -      | as it relates to th                   | he Reg      | ulated E                           | Entity lis | sted on t         | his forn                           | n. Plea      | se check one of t                         | he following:   |                          |
| ⊠Owner<br>☐Occupation  | nal Licens                   | ☐ Opera                   | or<br>nsible Party                    |             |                                    |            | Operat<br>y Clean |                                    | licant       | □Other                                    |                 |                          |
|  | 10995                        | Bilnoski Roa              | ıd                                    |             |                                    |            |                   |                                    |              |   |                 |                          |
| 15. Mailing Address:   |                              |                           |                                       |             |                                    |            |                   |                                    |              |   |                 |                          |
| Address.   | City                         | Willis                    |                                       | St          | ate                                | TX         |                   | ZIP                                | 7737         | 78  | ZIP + 4         |                          |
| 16. Country  | Mailing Ir                   | formation (if outsi       | de USA)                               | -1-         |                                    |            | 17. E-I           | Mail Ac                            | dres         | S (if applicable)                         | <u>.</u>        |                          |
|  |                              |                           |                                       |             |                                    |            | paul.             | smith                              | ı@bl         | dr.com                                    |                 |                          |
| 18. Telephor   | ne Numbe                     | er                        | ,                                     | 19. Ex      | tensio                             | n or C     | ode               |                                    |              | 20. Fax Num                               | ber (if applica | ble)                     |
| ( 832 ) 25   | 6-4635                       |                           |                                       |             |                                    |            |                   |                                    |              | ( )                                       | -               |                          |
| <b>ECTION</b>  | III: R                       | egulated En               | <u>tity Inforr</u>                    | <u>nati</u> | <u>on</u>                          |            |                   |                                    |              |   |                 |                          |
| <b>21. General F</b><br>⊠ New Regu   | _                            |                           | on (If 'New Reg<br>to Regulated Er    |             | _                                  |            |                   |                                    |              | <i>m should be ac</i><br>Entity Informati |                 | a permit application)    |
| •  |                              | tity Name sub             | •                                     | -           |                                    | d in o     | order             | to me                              | et T         | CEQ Agency                                | Data Stan       | dards (removal           |
| 22. Regulate   | d Entity N                   | lame (Enter name          | of the site where                     | the reg     | ulated a                           | action is  | s taking          | place.)                            |              |   |                 |                          |
| Willis 207   | Waster                       | water Treatme             | ent Plant                             |             |                                    |            |                   |                                    |              |   |                 |                          |

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| 23. Street Address of   | No address has been assigned |  |             |                   |          |                           |                |                       |                 |                 |  |  |
|---|------------------------------|--|-------------|-------------------|----------|---------------------------|----------------|-----------------------|-----------------|-----------------|--|--|
| the Regulated Entity:   |                              |  |             |                   |          |                           |                |                       |                 |                 |  |  |
| (No PO Boxes)   | City                         | ity State ZIP  |             |                   |          |                           |                |                       |                 |                 |  |  |
| 24. County  | Kaufr                        | aufman   |             |                   |          |                           |                |                       |                 |                 |  |  |
|   | 18.5                         | Enter Physical   | Location    | on Descriptio     | n if no  | street addre              | ss is prov     | ided.                 |                 |                 |  |  |
| 25. Description to Physical Location:                           | Appro                        | roximately 4,550 feet northwest of the intersection of E. Farm-to-Market Road and Bilnoski Road in Montgomery County |             |                   |          |                           |                |                       |                 |                 |  |  |
| 26. Nearest City  |                              |  |             |                   |          |                           | State          | ·                     | Nea             | rest ZIP Code   |  |  |
| Willis  |                              |  |             |                   |          |                           | TX             |                       | 773             | 378             |  |  |
| 27. Latitude (N) In Dec   | imal:                        | 30.507478  |             |                   |          | 28. Longitud              | le (W) In      | Decimal:              | 95.40106        | 1               |  |  |
| Degrees   | Minutes                      |  | Seco        | nds               |          | Degrees                   |                | Minutes               |                 | Seconds         |  |  |
| 30  |                              | 30   |             | 26.92             |          | -95                       |                | 24                    | 4               | 03.82           |  |  |
| 29. Primary SIC Code (4   | digits)                      | 30. Secondary S  | SIC Co      | de (4 digits)     |          | Primary NAIC<br>6 digits) | S Code         | 32. Sec<br>(5 or 6 di | condary NA      | CS Code         |  |  |
| 6552  |                              |  |             |                   | 1        | 210                       |                |                       | ×               |                 |  |  |
| 33. What is the Primary   | Business                     | of this entity?  | (Do not     | repeat the SIC or | NAICS    | description.)             |                | I                     |                 |                 |  |  |
| Developing land   |                              |  | ,           | ,                 |          | ()                        |                |                       |                 |                 |  |  |
|   |                              |  |             |                   | 114      | l65 Bilnoski F            | Road           |                       |                 |                 |  |  |
| 34. Mailing   |                              |  |             |                   |          |                           |                |                       |                 |                 |  |  |
| Address:  | City                         | Willis   |             | State             | Τ.       | TX ZIF                    | ,              | ZIP+4                 |                 |                 |  |  |
| 35. E-Mail Address  | :                            |  |             |                   | tex      | asbellescc@g              | gmail.com      | 1                     |                 |                 |  |  |
| 36. Teleph  | one Numb                     | er   |             | 37. Extension     | on or (  | Code                      | 3              | 8. Fax Numb           | er (if applic   | able)           |  |  |
| ( 832 )   | 731-1682                     |  |             |                   |          |                           |                | ( )                   |                 |                 |  |  |
| 39. TCEQ Programs and ID form. See the Core Data Form i         |                              |  |             | write in the perm | its/regi | stration number           | s that will be | e affected by th      | e updates sub   | omitted on this |  |  |
| ☐ Dam Safety  | ☐ Distri                     | <u>_</u>   |             | Edwards Aquife    | er .     | ☐ Emiss                   | ions Invento   | ory Air               | ] Industrial Ha | zardous Waste   |  |  |
|   |                              |  |             |                   |          |                           |                |                       |                 |                 |  |  |
| ☐ Municipal Solid Waste   | ☐ New S                      | Source Review Air  |             | OSSF              |          | ☐ Petrole                 | eum Storage    | e Tank                | ] PWS           |                 |  |  |
|   |                              |  |             |                   |          |                           |                |                       |                 |                 |  |  |
| Sludge  | ☐ Storm                      | n Water  |             | Title V Air       |          | Tires                     |                |                       | Used Oil        |                 |  |  |
| ☐ Voluntary Cleanup   |                              | Waste Water  |             |                   |          |                           |                |                       |                 |                 |  |  |
| LI voluntary Oleanup  |                              | 2 AAGIGI   |             | vvasicvvalci Ayi  | ioultur  | e     Water               | ragnis         |                       | Other:          |                 |  |  |
| CE CONTON ATT   | New                          |  |             |                   |          |                           |                |                       |                 |                 |  |  |
| SECTION IV: Pre   | parer l                      | <u>nformation</u>  | 1           |                   |          |                           | 1              |                       |                 |                 |  |  |
| 40. Name: Shelley Y   | oung                         |  |             |                   |          | 41. Title:                | Consu          | lting Engi            | neer            |                 |  |  |
| 42. Telephone Number  | 43. E                        | xt./Code   | 44. Fa      | x Number          |          | 45. E-Mail                | Address        |                       |                 |                 |  |  |
| (281) 373-0500  |                              |  | (281        | ) 373-1113        |          | syoung@                   | watere         | ngineers.co           | om              |                 |  |  |
| SECTION V: Aut  | horized                      | Signature  |             |                   |          |                           |                |                       |                 |                 |  |  |
| <b>46.</b> By my signature below, signature authority to submit | I certify, to                | the best of my   | :<br>knowle |                   |          |                           |                |                       |                 |                 |  |  |

identified in field 39.

| Company:        | WaterEngineers, Inc. | Job Title: | Engineer |        |                |
|-----------------|----------------------|------------|----------|--------|----------------|
| Name(In Print): | Shelley Young, P.E.  |            |          | Phone: | (281) 373-0500 |
| Signature:      | Shelly Jounes        |            |          | Date:  | 3/19/2024      |

TCEQ-10400 (04/15) Page 2 of 2

## **Plain Language Summary**

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



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Mark D. McDonald and Paul D. Smith (Co-Applicants) (CN New) proposes to operate the Willis 207 Wastewater Treatment Plant (RN New), an activated sludge process with nitrification operated in the complete mix mode. The facility will be located at approximately 4,550 feet northwest of the intersection of Bilnoski Road and E. Farm-to-Market Road 1097, in near Willis, Montgomery County, Texas 77378. This application for a new application to discharge a daily average flow of 450,000 gallons per day of treated domestic wastewater..

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

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

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

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

Mark D. McDonald (CN New) and Paul D. Smith ((CN New)) propone operar la Planta de Tratamiento de Aguas Residuales de Willis 207 (RN New), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas aproximadamente 4550 pies al sureste de la intersección de Carretera Bilnoski y Carretera Granja-a-Mercado 2860 Este en Condado de Montgomery, Texas 77378.. Esta solicitud es para una nueva aplicación para descargar a un flujo promedio diario de 450,000 galones por día de aguas residuales domésticas tratadas.

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

## **Public Involvement Plan**

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



Texas Commission on Environmental Quality

#### Public Involvement Plan Form for Permit and Registration Applications

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

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

| Section 1. Preliminary Screening   |
|--|
| New Permit or Registration Application  New Activity - modification, registration, amendment, facility, etc. (see instructions)  |
| If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.   |
|  |
| Section 2. Secondary Screening   |
| Requires public notice,  |
| Considered to have significant public interest, and  |
| \times Located within any of the following geographical locations:   |
| <ul> <li>Austin</li> <li>Dallas</li> <li>Fort Worth</li> <li>Houston</li> <li>San Antonio</li> <li>West Texas</li> <li>Texas Panhandle</li> <li>Along the Texas/Mexico Border</li> <li>Other geographical locations should be decided on a case-by-case basis</li> </ul> |
| If all the above boxes are not checked, a Public Involvement Plan is not necessary.  Stop after Section 2 and submit the form.   |
| Public Involvement Plan not applicable to this application. Provide <b>brief</b> explanation.  |
| The area affected by this permit action is not environmentally highly sensitive and, to the best of my knowledge, not been part of any other contested permit action.  |
|  |

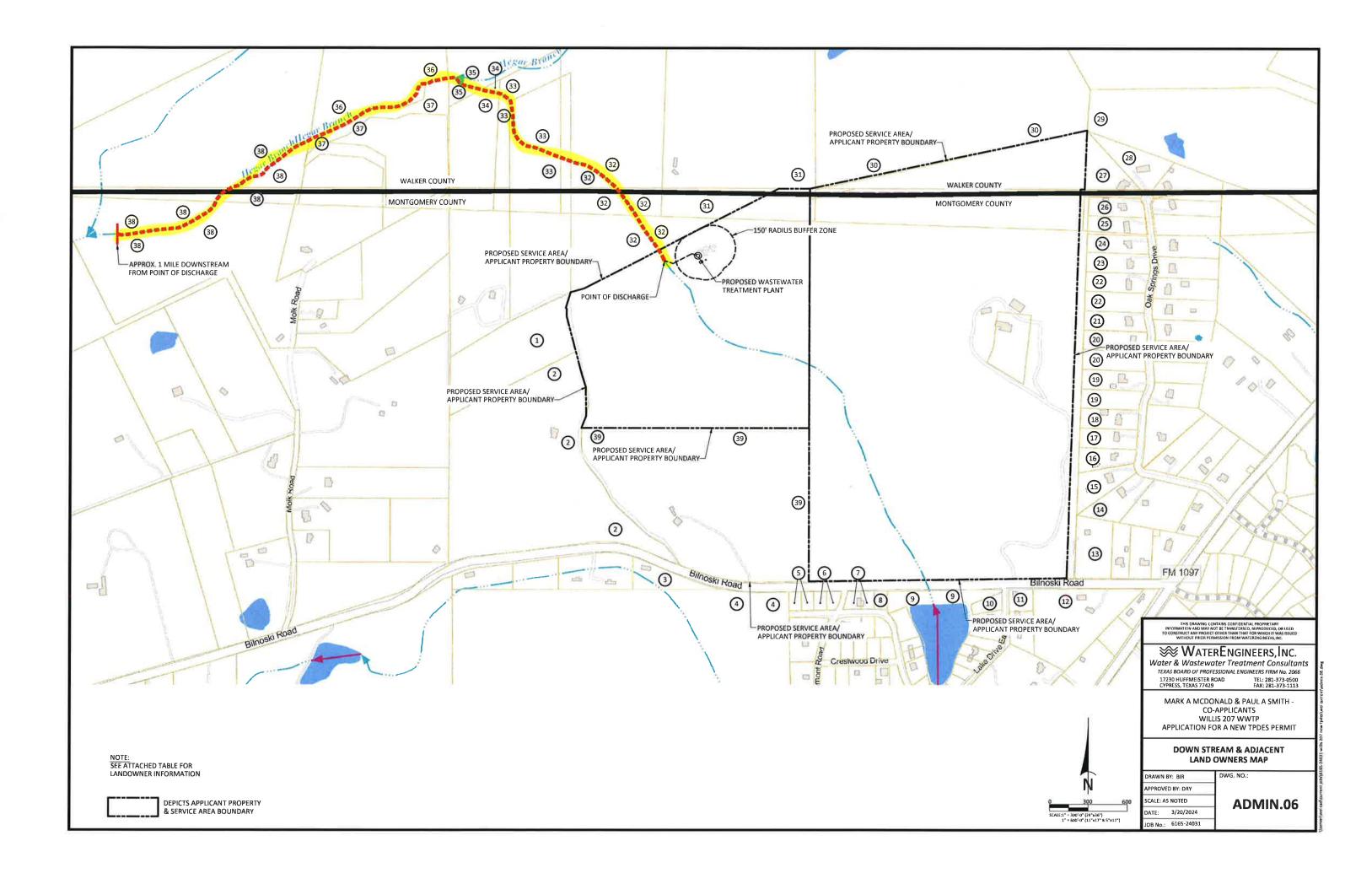
| Section 3. Application Information   |
|--|
| Type of Application (check all that apply):  |
| Air Initial Federal Amendment Standard Permit Title V  |
| Waste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire Radioactive Material Licensing Underground Injection Control |
| Water Quality  |
| Texas Pollutant Discharge Elimination System (TPDES)   |
| Texas Land Application Permit (TLAP)   |
| State Only Concentrated Animal Feeding Operation (CAFO)  |
| Water Treatment Plant Residuals Disposal Permit  |
| Class B Biosolids Land Application Permit  |
| Domestic Septage Land Application Registration   |
|  |
| Water Rights New Permit  |
| New Appropriation of Water   |
| New or existing reservoir  |
| Amondment to an Eviating Water Dight   |
| Amendment to an Existing Water Right   |
| Add a New Appropriation of Water  Add a New or Existing Reservoir  |
| Major Amendment that could affect other water rights or the environment  |
| Major Amendment that could affect other water rights of the environment  |
| Section 4. Plain Language Summary  |
| Provide a brief description of planned activities.   |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

| Section 5. Community and Demographic Information  |
|---|
| Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.                                   |
| Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information. |
| magaage notice to necessary). Thease provide the following mornation  |
| (City)  |
| (County)  |
|   |
|   |
| (Census Tract) Please indicate which of these three is the level used for gathering the following information.  |
| City Census Tract   |
| (a) Percent of people over 25 years of age who at least graduated from high school  |
|   |
| (b) Don gamita in game for a smalleting many the considired largeting   |
| (b) Per capita income for population near the specified location  |
|   |
| (c) Percent of minority population and percent of population by race within the specified location  |
|   |
| (d) Percent of Linguistically Isolated Households by language within the specified location   |
| (a) rescent of Linguistically isolated Households by language within the specified location   |
|   |
| (e) Languages commonly spoken in area by percentage   |
|   |
| (f) Community and/or Stakeholder Groups   |
| (1) Community and/of Stateholder Groups   |
|   |
| (g) Historic public interest or involvement   |
|   |
|   |

| Section 6. Planned Public Outreach Activities   |
|---|
| (a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?   |
| Yes No  |
| (b) If yes, do you intend at this time to provide public outreach other than what is required by rule?  |
| Yes No  |
| If Yes, please describe.  |
|   |
| If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.  (c) Will you provide notice of this application in alternative languages? |
| Yes No  |
| Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.               |
| If yes, how will you provide notice in alternative languages?   |
| Publish in alternative language newspaper   |
| Posted on Commissioner's Integrated Database Website  |
| Mailed by TCEQ's Office of the Chief Clerk  |
| Other (specify)   |
| (d) Is there an opportunity for some type of public meeting, including after notice?  |
| Yes No  |
| (e) If a public meeting is held, will a translator be provided if requested?  |
| Yes No  |
| (f) <u>Hard</u> copies of the application <u>will</u> be available at the following (check all that apply):   |
| TCEQ Regional Office TCEQ Central Office  |
| Public Place (specify)  |
|   |
| Section 7. Voluntary Submittal  |
| For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.   |
| Will you provide notice of this application, including notice in alternative languages?  Yes No   |
| What types of notice will be provided?  |
| Publish in alternative language newspaper   |
| Posted on Commissioner's Integrated Database Website  |
| Mailed by TCEQ's Office of the Chief Clerk  |
| Other (specify)   |
|   |
|   |

# ATTACHMENT ADMIN.06 Affected Landowners Map and Table

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



#### **TABLE "ADMIN.06"**

#### MARK D. MCDONALD & PAUL D. SMITH-CO-APPLICANTS Willis 207 Wastewater Treatment Plant

## Adjacent & Downstream Land Ownership Table Source: Montgomery County & Walker County Appraisal Districts

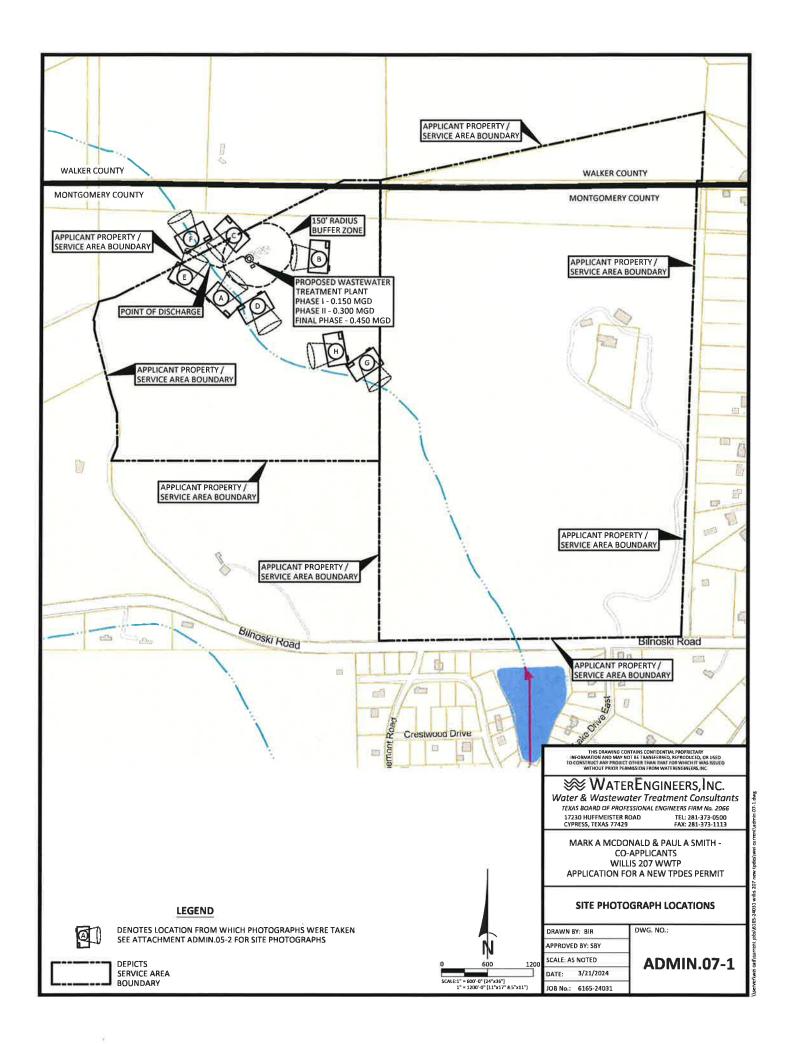
| Tract No.                       | Title Owner & Address        |
|---------------------------------|------------------------------|
| (See Attachment "ADMIN.04" Map) |                              |
|                                 | GERRY WOODRUFF               |
| 1                               | 10277 BILNOSKI ROAD          |
|                                 | WILLIS TX 77378              |
|                                 | MICHAEL HILL                 |
| 2                               | 10255 BILNOSKI ROAD          |
|                                 | WILLIS TX 77378              |
|                                 | JAMES HENNESSEY              |
| 3                               | 10250 BILNOSKI ROAD          |
|                                 | WILLIS TX 77378              |
|                                 | MYRA MUNIZ IRREVOCABLE TRUST |
| 4                               | 4652 OAK ALY                 |
|                                 | KERRVILLE TX 78028           |
|                                 | DIV REAL ESTATE LLC          |
| 5                               | 18050 PINEMONT               |
|                                 | WILLIS TX 77378              |
|                                 | 211 AP LLC SERIES M          |
| 6                               | 502 W MONTGOMERY             |
|                                 | WILLIS TX 77378              |
|                                 | ARTURO & MELISSA HERNANDEZ   |
| 7                               | 11133 LAKE DRIVE W           |
|                                 | WILLIS TX 77378              |
|                                 | JOSHUA CURTUSAN              |
| 8                               | 4734 BROKEN ELM DRIVE        |
|                                 | SPRING TX 77388              |
|                                 | AFTON PARK CIVIC IMP ASSN    |
| 9                               | 11054 NORTHLINE ROAD         |
|                                 | WILLIS TX 77378              |
|                                 |                              |
| 10                              | NOT USED                     |
|                                 | WILLIAM SNEAD                |
| 11                              | 18204 LAKE DRIVE E           |
|                                 | WILLIS TX 77378              |
|                                 | WILLIAM & PAT KERCHEVAL      |
| 12                              | 11490 BILNOSKI ROAD          |
|                                 | WILLIS TX 77378              |

|    | TOGEDIL 6 MADIA ADAMG        |
|----|------------------------------|
| 12 | JOSEPH & MARIA ADAMS         |
| 13 | 11491 BILNOSKI ROAD          |
|    | WILLIS TX 77378              |
|    | AMANDA VEST                  |
| 14 | 11504 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | BRADLEY WARREN               |
| 15 | P O BOX 1132                 |
|    | WILLIS TX 77378              |
|    | LARRY & PATSY MOORE          |
| 16 | 11492 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | DALE BYRD LIVING TRUST       |
| 17 | 11486 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | FARON & SHELLY YOUNG         |
| 18 | 11480 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | STEPHEN SINNER               |
| 19 | 11468 OAK SPRINGS DRIVE      |
| 17 | WILLIS TX 77378              |
|    | JOHNNY & SUSAN POSEY         |
| 20 |                              |
| 20 | 11456 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | RYAN BRZYMIALKIEWICZ         |
| 21 | 17380 CARROLL LANE           |
|    | WILLIS TX 77378              |
|    | ROY & LINDA ANDERSON         |
| 22 | 11438 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | ALBERTO MORANCHEL            |
| 23 | 11432 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | BENNY & PATRICIA MIERS       |
| 24 | 11426 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | TONY & EVELYN SIMMONS        |
| 25 | 11420 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | MARIANNA & KEVIN ROSSI       |
| 26 | 11414 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | BERNICE MOORE & SHERRI ALLEN |
| 27 | 11408 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | HELEN FLORENCE               |
| 28 | 11402 OAK SPRINGS DRIVE      |
|    | WILLIS TX 77378              |
|    | WILLIO IX //J/0              |
|    |                              |

|    | 7                          |
|----|----------------------------|
|    | ESTATE OF JUANTIA FLORENCE |
| 29 | P O BOX 367                |
|    | LA MARQUE TX 77568         |
|    | MICHAEL & DAVID FLORENCE   |
| 30 | P O BOX 367                |
|    | LA MARQUE TX 77568         |
|    | JOHN & JODIE REED          |
| 31 | P O BOX 334                |
|    | WILLIS TX 77378-0334       |
|    | VICTOR & MARTHA SCHINDLER  |
| 32 | P O BOX 1022               |
|    | WILLIS TX 77378-1022       |
|    | FINCA DE ARBOLES LLC       |
| 33 | 500 ADAMS LANE             |
|    | NEW WAVERLY TX 77358       |
|    | KAY ALLBRITTON             |
| 34 | 5421 LINCREST              |
|    | HOUSTON TX 77056           |
|    | FRED BENNETT EST           |
| 35 | P O BOX 904                |
|    | HUNTSVILLE TX 77342        |
|    | CAROL BOMNSKIE             |
| 36 | 4005 MARSH STREET          |
|    | BRYAN TX 77803             |
|    | JEFFREY & KIMBERLY FULKS   |
| 37 | 15202 BLUE THISTLE DRIVE   |
|    | CYPRESS TX 77433           |
|    | EUGENE MOLK                |
| 38 | 131 LA QUINTA              |
|    | CONROE TX 77304            |
|    |                            |
| 39 | APPLICANT                  |

## **Photographs**

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



#### PROPOSED WASTEWATER TREATMENT PLANT SITE -LOOKING EAST





PROPOSED WASTEWATER TREATMENT PLANT SITE - LOOKING WEST





WATER ENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD
CYPRESS, TEXAS 77429
FAX: 281-373-0113

MARK A MCDONALD & PAUL A SMITH -CO-APPLICANTS WILLIS 207 WWTP APPLICATION FOR A NEW TPDES PERMIT

#### SITE PHOTOGRAPHS

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

JOB No.: 6165-24031

DWG. NO.:

**ADMIN.07-2** 3/20/2024

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

JORNAL

#### POINT OF DISCHARGE





#### **UPSTREAM OF POINT OF DISCHARGE**





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

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

MARK A MCDONALD & PAUL A SMITH -CO-APPLICANTS WILLIS 207 WWTP APPLICATION FOR A NEW TPDES PERMIT

#### SITE PHOTOGRAPHS

DWG. NO.:

DRAWN BY: BIR APPROVED BY: SBY

SCALE: AS NOTED

DATE: 3/20/2024 JOB No.: 6165-24031 **ADMIN.07-3** 

#### **50FT DOWNSTREAM OF POINT OF DISCHARGE**





#### **100FT DOWNSTREAM OF POINT OF DISCHARGE**





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

INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

#### ₩ WATERENGINEERS,INC.

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

MARK A MCDONALD & PAUL A SMITH -CO-APPLICANTS WILLIS 207 WWTP APPLICATION FOR A NEW TPDES PERMIT

#### SITE PHOTOGRAPHS

DWG. NO.:

DRAWN BY: BIR
APPROVED BY: SBY

DATE: 3/20/2024

JOB No.: 6165-24031

**ADMIN.07-4** 

#### 1220FT UPSTREAM OF POINT OF DISCHARGE LOOKING DOWNSTREAM





#### 1220FT UPSTREAM OF POINT OF DISCHARGE LOOKING UPSTREAM





INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUE WITHOUT PRIOR PERMISSION FROM WATERENGINEERS,INC.

#### ₩ WATERENGINEERS, INC.

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

MARK A MCDONALD & PAUL A SMITH -CO-APPLICANTS WILLIS 207 WWTP APPLICATION FOR A NEW TPDES PERMIT

#### SITE PHOTOGRAPHS

DWG. NO.:

DRAWN BY: BIR
APPROVED BY: SBY

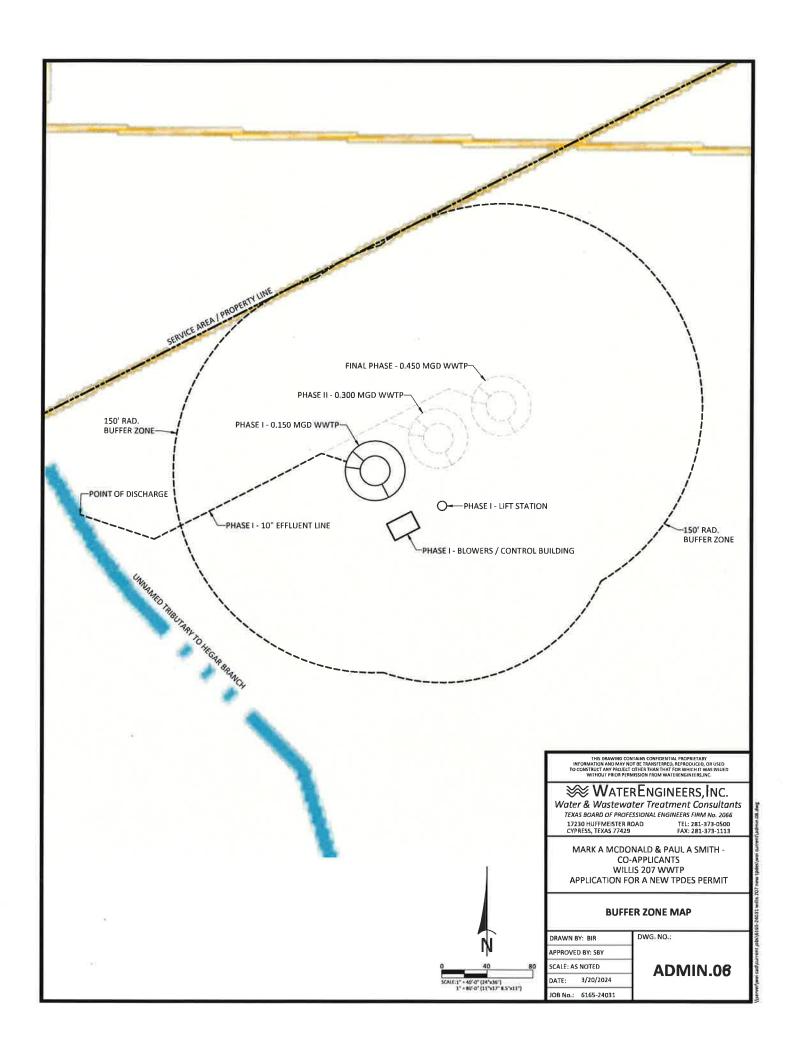
SCALE: AS NOTED

DATE: 3/20/2024 JOB No.: 6165-24031 **ADMIN.07-5** 

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

## **Buffer Zone Map**

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



# ATTACHMENT ADMIN.09 Supplemental Permit Information Form and USGS Map

(Reference Administrative Report Page 14)

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

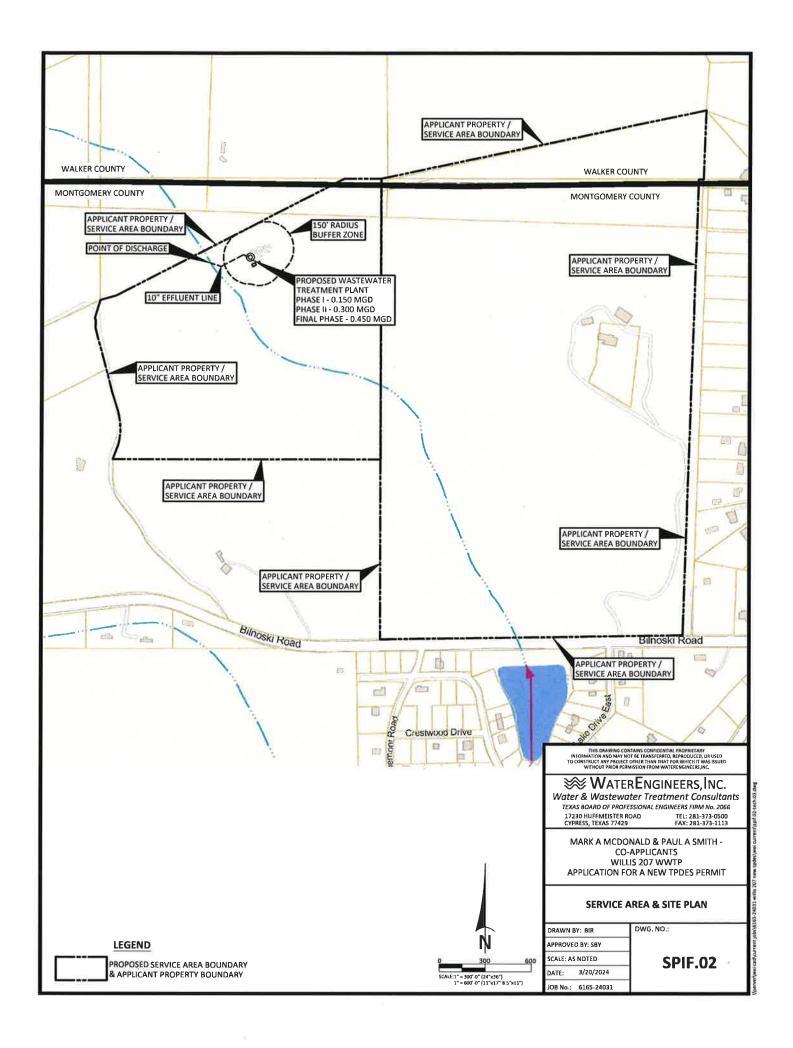
## FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

| dmentNew  |  |  |  |
|---|--|--|--|
| egment Number:  |  |  |  |
|   |  |  |  |
|   |  |  |  |
| U.S. Fish and Wildlife  |  |  |  |
| U.S. Army Corps of Engineers  |  |  |  |
|   |  |  |  |
| nly. (Instructions, Page 53)  |  |  |  |
| will mail a copy to each agency as required by<br>t completely addressed or further information<br>nation before issuing the permit. Address  |  |  |  |
| Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671. |  |  |  |
|   |  |  |  |
| Co-Applicants)  |  |  |  |
| EPA ID No. TX <u>New</u>  |  |  |  |
| n that includes street/highway, city/vicinity,  Road and E. Farm-to-Market Road 1097, Willis,   |  |  |  |
|   |  |  |  |

|    |   | e the name, address, phone and fax number of an individual that can be contacted to<br>r specific questions about the property.  |  |
|----|---|--|--|
|    | Prefix  | (Mr., Ms., Miss): <u>Ms.</u>   |  |
|    | First a   | nd Last Name: Shelley Young  |  |
|    | Creder  | ntial (P.E, P.G., Ph.D., etc.): <u>P.E.</u>  |  |
|    | Title: <u>F</u>   | Engineer   |  |
|    | Mailing   | g Address: <u>17230 Huffmeister Road, Suite A</u>  |  |
|    | City, S   | tate, Zip Code: <u>Cypress, TX 77429</u>   |  |
|    | Phone   | No.: <u>281-373-0500</u> Ext.: Click here to enter text. Fax No.: <u>281-373-1113</u>  |  |
|    | E-mail  | Address: syoung@waterengineers.com   |  |
| 2. | List th   | e county in which the facility is located: Montgomery  |  |
| 3. | please  | property is publicly owned and the owner is different than the permittee/applicant, list the owner of the property.  |  |
|    | N/A   |  |  |
|    |   |  |  |
|    |   |  |  |
| 4. | Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number. |  |  |
|    |   | the plant site to an unnamed tributary of Hegar Branch; thence to Hegar Branch; e to Caney Creek in Segment No. 1010 of the San Jacinto River Basin.   |  |
| 5. | plotted<br>route f  | provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge from the point of discharge for a distance of one mile downstream. (This map is ed in addition to the map in the administrative report). |  |
|    | Provid  | e original photographs of any structures 50 years or older on the property.  |  |
|    | Does y  | our project involve any of the following? Check all that apply.  |  |
|    | $\boxtimes$   | Proposed access roads, utility lines, construction easements   |  |
|    |   | Visual effects that could damage or detract from a historic property's integrity   |  |
|    |   | Vibration effects during construction or as a result of project design   |  |
|    |   | Additional phases of development that are planned for the future   |  |
|    |   | Sealing caves, fractures, sinkholes, other karst features  |  |

|    | ☐ Disturbance of vegetation or wetlands   |
|----|---|
| 1. | List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):  The plant site will encompass approximately 2.5 acres. Excavation is not expected to be more than 10-12'. Other disturbances will include clearing and grubbing of the site. |
| 2  | Describe existing disturbances respective and land uses   |
| 2. | Describe existing disturbances, vegetation, and land use:  Land is currently vacant and used for agriculture.   |
|    | E FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR IENDMENTS TO TPDES PERMITS   |
| 3. | List construction dates of all buildings and structures on the property:  See No. 2 above   |
| 4. | Provide a brief history of the property, and name of the architect/builder, if known.  See No. 2 above  |
|    |   |





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

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

## ATTACHMENT TECH.01-01 DESIGN & LOADING CRITERIA WILLIS 207 WASTEWATER TREATMENT PLANT 150,000 GPD @ Qp = 4.0\*Q

| Parameter                       | <u> </u> | Parameter                                    |       |
|---------------------------------|----------|--|-------|
| INFLUENT CONDITIONS             |          | Clarifier                                    |       |
| Average Daily Flow, mgd         | 0.150    | Allow OFR @ Qp, gpd/sf                       | 1200  |
| Ratio Average/Peak Flow         | 4.00     | Req'd Diameter, ft                           | 25.23 |
| Peak 2-Hour Flow, gpm           | 417      | Actual Diameter, ft                          | 26.00 |
| BOD, mg/l                       | 300      | Side Water Depth, ft                         | 14.25 |
| BOD, lb/day                     | 375      | Net Basin Area sq ft                         | 531   |
|                                 |          | Total Volume, cu ft                          | 7,566 |
| INFLUENT PUMPING                |          | Avg. SOR, gpd/sq ft                          | 283   |
| Total Number of Pumps           | 3        | Peak SOR, gpd/sq ft                          | 1,130 |
| Pump Capacity, gpm              | 208      | Avg. Detention, hr                           | 9.05  |
| Firm Capacity, gpm              | 417      | Peak Detention, hr                           | 2.26  |
|                                 |          | RAS Flow (400 gpd/ SF) gpm                   | 147   |
| TREATMENT UNIT DIMENSIONS       |          | , 5, , 5,                                    |       |
| Tank Wall Height, ft            | 16       | DISINFECTION                                 |       |
| Inner Tank Inside Diameter, ft  | 26       | Net Basin Area, sq ft                        | 92    |
| Inner Tank Outside Diameter, ft | 26.5     | Total Volume, cu ft                          | 1,146 |
| Outer Tank Inside Diameter, ft  | 52       | Peak Flow Detention, min                     | 20.6  |
| Outer Tank Outside Diameter, ft | 48       | Chlorine Dose, mg/l                          | 8     |
| Selector Zone Angle, degrees    | 0        | Avg Feed Rate, lb/day                        | 10    |
| Aeration Zone Angle, degrees    | 205      | Peak Feed Rate, lb/day                       | 40    |
| Chlorine Contact Angle, degrees | 21       | Air Supply @10 scfm/1000 cu ft, cfm          | 11    |
| Digester Zone Angle, degrees    | 134      | 7 iii Gappiy @ 10 doiiiii 1000 da it, diiii  |       |
| Selector Basin depth, ft        | 14.5     | DECHLORINATION                               |       |
| Aeration Zone Depth, ft         | 14.5     | Net Basin Area, sq ft                        | 0     |
| Chlorine Contact Zone Depth, ft | 12.5     | Total Volume, cu ft                          | 0     |
| Aerobic Digester Zone Depth, ft | 14.5     | Peak Flow Detention, min                     | 0.0   |
| Acrobic Digester Zone Depth, it | 14.5     | Avg SO2 Dose, mg/l                           | 0.0   |
| ACTIVATED SLUDGE                |          | Avg Feed Rate, lb/day                        | 0     |
| Selector Basin                  |          | Peak Feed Rate, lb/day                       | 0     |
| Actual Surface Area, sq ft      | 0        | Air Supply @20 scfm/1000 cu ft, cfm          | 0     |
| Total Volume, cu ft             | 0        | All Supply @20 scill/1000 cd it, cilli       | U     |
| Detention, Hrs (based on Q)     | 0.00     | AEROBIC DIGESTION                            |       |
| Air Supply, scfm/1000 cu ft     | 20       |  | 585   |
| Required Air Supply, scfm       | 0        | Net Basin Area, sq ft<br>Total Volume, cu ft | 8,485 |
| Aeration Basins                 | U        | ·  | •     |
|                                 | 905      | Loading, cu ft/# BOD                         | 22.6  |
| Actual Surface Area, sq ft      | 895      | Air Supply, scfm @ 25 scfm/1000 cu ft        | 212   |
| Total Volume, cu ft             | 12,981   | AID DI OVAIEDO                               |       |
| Detention, Hrs (based on Q)     | 15.54    | AIR BLOWERS                                  | •     |
| Aeration Basin Volume, cu ft    | 12,981   | Selector Basin Air Supply, scfm              | 0     |
| BOD Loading, lb BOD/1000 cu ft  | 28.91    | Aeration Basin Supply, scfm                  | 184   |
| O2 Req'd @ 2.2 # O2/# BOD       | 826      | Aerobic Dig. Supply, scfm                    | 212   |
| AOR/SOR Coefficient             | 0.45     | R.S. Airlift Air, scfm                       | 22    |
| Diffuser SOR O2 Eff., %         | 23.0%    | Skimmer Airlift, scfm                        | 10    |
| Process Air Req'd, scfm         | 145      | Chlorine Basin Air, scfm                     | 11    |
| Temperature Adjustment to 30 F  | 1.27     | DeChlor Basin Air, scfm                      | 0     |
| Adjusted Air Flow Rate @ 30 F   | 184      | Total Air Supply Req'd, scfm                 | 439   |
|                                 |          | No. of Blowers, scfm                         | 2     |
|                                 |          | Capacity, scfm                               | 1600  |
|                                 |          | Firm Capacity, scfm                          | 1,600 |
|                                 |          | Blower Pressure, psig                        | 7.25  |

## ATTACHMENT TECH.01-02 DESIGN & LOADING CRITERIA WILLIS 207 WASTEWATER TREATMENT PLANT 300,000 GPD @ Qp = 4.0\*Q

| Parameter                       |        | Parameter                             |        |
|---------------------------------|--------|---------------------------------------|--------|
| INFLUENT CONDITIONS             |        | Clarifier                             |        |
| Average Daily Flow, mgd         | 0.300  | Allow OFR @ Qp, gpd/sf                | 1200   |
| Ratio Average/Peak Flow         | 4.00   | Req'd Diameter, ft                    | 35.68  |
| Peak 2-Hour Flow, gpm           | 833    | Actual Diameter, ft                   | 26.00  |
| BOD, mg/l                       | 300    | Side Water Depth, ft                  | 14.25  |
| BOD, lb/day                     | 751    | Net Basin Area sq ft                  | 1,062  |
|                                 |        | Total Volume, cu ft                   | 15,131 |
| INFLUENT PUMPING                |        | Avg. SOR, gpd/sq ft                   | 283    |
| Total Number of Pumps           | 3      | Peak SOR, gpd/sq ft                   | 1,130  |
| Pump Capacity, gpm              | 417    | Avg. Detention, hr                    | 9.05   |
| Firm Capacity, gpm              | 833    | Peak Detention, hr                    | 2.26   |
| ,                               |        | RAS Flow (400 gpd/ SF) gpm            | 295    |
| TREATMENT UNIT DIMENSIONS       |        |                                       |        |
| Number of WWTPs                 | 2      |                                       |        |
| Tank Wall Height, ft            | 16     | DISINFECTION                          |        |
| Inner Tank Inside Diameter, ft  | 26     | Net Basin Area, sq ft                 | 183    |
| Inner Tank Outside Diameter, ft | 26.5   | Total Volume, cu ft                   | 2,293  |
| Outer Tank Inside Diameter, ft  | 52     | Peak Flow Detention, min              | 20.6   |
| Outer Tank Outside Diameter, ft | 48     | Chlorine Dose, mg/l                   | 8      |
| Selector Zone Angle, degrees    | 0      | Avg Feed Rate, lb/day                 | 20     |
| Aeration Zone Angle, degrees    | 205    | Peak Feed Rate, lb/day                | 80     |
| Chlorine Contact Angle, degrees | 21     | Air Supply @10 scfm/1000 cu ft, cfm   | 23     |
| Digester Zone Angle, degrees    | 134    |                                       |        |
| Selector Basin depth, ft        | 14.5   | DECHLORINATION                        |        |
| Aeration Zone Depth, ft         | 14.5   | Net Basin Area, sq ft                 | 0      |
| Chlorine Contact Zone Depth, ft | 12.5   | Total Volume, cu ft                   | 0      |
| Aerobic Digester Zone Depth, ft | 14.5   | Peak Flow Detention, min              | 0.0    |
|                                 |        | Avg SO2 Dose, mg/l                    | 0      |
| ACTIVATED SLUDGE                |        | Avg Feed Rate, lb/day                 | 0      |
| Selector Basin                  |        | Peak Feed Rate, lb/day                | 0      |
| Actual Surface Area, sq ft      | 0      | Air Supply @20 scfm/1000 cu ft, cfm   | 0      |
| Total Volume, cu ft             | 0      | ,                                     |        |
| Detention, Hrs (based on Q)     | 0.00   | AEROBIC DIGESTION                     |        |
| Air Supply, scfm/1000 cu ft     | 20     | Net Basin Area, sq ft                 | 1,170  |
| Required Air Supply, scfm       | 0      | Total Volume, cu ft                   | 16,971 |
| Aeration Basins                 | _      | Loading, cu ft/# BOD                  | 22.6   |
| Actual Surface Area, sq ft      | 1,791  | Air Supply, scfm @ 25 scfm/1000 cu ft | 424    |
| Total Volume, cu ft             | 25,963 | 3 =                                   |        |
| Detention, Hrs (based on Q)     | 15.54  | AIR BLOWERS                           |        |
| Aeration Basin Volume, cu ft    | 25,963 | Selector Basin Air Supply, scfm       | 0      |
| BOD Loading, lb BOD/1000 cu ft  | 28.91  | Aeration Basin Supply, scfm           | 367    |
| O2 Req'd @ 2.2 # O2/# BOD       | 1,651  | Aerobic Dig. Supply, scfm             | 424    |
| AOR/SOR Coefficient             | 0.45   | R.S. Airlift Air, scfm                | 44     |
| Diffuser SOR O2 Eff., %         | 23.0%  | Skimmer Airlift, scfm                 | 10     |
| Process Air Reg'd, scfm         | 290    | Chlorine Basin Air, scfm              | 23     |
| Temperature Adjustment to 30 F  | 1.27   | DeChlor Basin Air, scfm               | 0      |
| Adjusted Air Flow Rate @ 30 F   | 367    | Total Air Supply Reg'd, scfm          | 869    |
| ,                               | 55.    | No. of Blowers, scfm                  | 4      |
|                                 |        | Capacity, scfm                        | 1600   |
|                                 |        | Firm Capacity, scfm                   | 4,800  |
|                                 |        | Blower Pressure, psig                 | 7.25   |
|                                 |        |                                       |        |

## ATTACHMENT TECH.01-03 DESIGN & LOADING CRITERIA WILLIS 207 WASTEWATER TREATMENT PLANT 450,000 GPD @ Qp = 4.0\*Q

| Parameter                             |        | Parameter                               |            |
|---------------------------------------|--------|---|------------|
| INFLUENT CONDITIONS                   | •      | Clarifier                               |            |
| Average Daily Flow, mgd               | 0.450  | Allow OFR @ Qp, gpd/sf                  | 1200       |
| Ratio Average/Peak Flow               | 4.00   | Req'd Diameter, ft                      | 43.70      |
| Peak 2-Hour Flow, gpm                 | 1250   | Actual Diameter, ft                     | 26.00      |
| BOD, mg/l                             | 300    | Side Water Depth, ft                    | 14.25      |
| BOD, lb/day                           | 1,126  | Net Basin Area sq ft                    | 1,593      |
|                                       |        | Total Volume, cu ft                     | 22,697     |
| INFLUENT PUMPING                      |        | Avg. SOR, gpd/sq ft                     | 283        |
| Total Number of Pumps                 | 4      | Peak SOR, gpd/sq ft                     | 1,130      |
| Pump Capacity, gpm                    | 417    | Avg. Detention, hr                      | 9.05       |
| Firm Capacity, gpm                    | 1250   | Peak Detention, hr                      | 2.26       |
|                                       |        | RAS Flow (400 gpd/ SF) gpm              | 442        |
| TREATMENT UNIT DIMENSIONS             |        | ,                                       |            |
| Number of WWTPs                       | 3      |   |            |
| Tank Wall Height, ft                  | 16     | DISINFECTION                            |            |
| Inner Tank Inside Diameter, ft        | 26     | Net Basin Area, sq ft                   | 275        |
| Inner Tank Outside Diameter, ft       | 26.5   | Total Volume, cu ft                     | 3,439      |
| Outer Tank Inside Diameter, ft        | 52     | Peak Flow Detention, min                | 20.6       |
| Outer Tank Outside Diameter, ft       | 48     | Chlorine Dose, mg/l                     | 8          |
| Selector Zone Angle, degrees          | 0      | Avg Feed Rate, lb/day                   | 30         |
| Aeration Zone Angle, degrees          | 205    | Peak Feed Rate, lb/day                  | 120        |
| Chlorine Contact Angle, degrees       | 21     | Air Supply @10 scfm/1000 cu ft, cfm     | 34         |
| Digester Zone Angle, degrees          | 134    | , an eapply of to committee out it, can | •          |
| Selector Basin depth, ft              | 14.5   | DECHLORINATION                          |            |
| Aeration Zone Depth, ft               | 14.5   | Net Basin Area, sq ft                   | 0          |
| Chlorine Contact Zone Depth, ft       | 12.5   | Total Volume, cu ft                     | 0          |
| Aerobic Digester Zone Depth, ft       | 14.5   | Peak Flow Detention, min                | 0.0        |
| Acrobic Digester Zone Depth, it       | 14.0   | Avg SO2 Dose, mg/l                      | 0.0        |
| ACTIVATED SLUDGE                      |        | Avg Feed Rate, lb/day                   | 0          |
| Selector Basin                        |        | Peak Feed Rate, lb/day                  | 0          |
| Actual Surface Area, sq ft            | 0      | Air Supply @20 scfm/1000 cu ft, cfm     | 0          |
| Total Volume, cu ft                   | 0      | All Supply @20 Scilli 1000 cd it, cilli | U          |
| Detention, Hrs (based on Q)           | 0.00   | AEROBIC DIGESTION                       |            |
| Air Supply, scfm/1000 cu ft           | 20     | Net Basin Area, sq ft                   | 1,756      |
| Required Air Supply, scfm             | 0      | Total Volume, cu ft                     | 25,456     |
| Aeration Basins                       | U      | Loading, cu ft/# BOD                    | 23,436     |
| Actual Surface Area, sq ft            | 2,686  | Air Supply, scfm @ 25 scfm/1000 cu ft   | 636        |
| Total Volume, cu ft                   | 38,944 | All Supply, scill @ 25 scill/1000 cu it | 030        |
| Detention, Hrs (based on Q)           | 15.54  | AIR BLOWERS                             |            |
| · · · · · · · · · · · · · · · · · · · |        |   | 0          |
| Aeration Basin Volume, cu ft          | 38,944 | Selector Basin Air Supply, scfm         | _          |
| BOD Loading, lb BOD/1000 cu ft        | 28.91  | Aeration Basin Supply, scfm             | 551<br>636 |
| O2 Req'd @ 2.2 # O2/# BOD             | 2,477  | Aerobic Dig. Supply, scfm               | 636        |
| AOR/SOR Coefficient                   | 0.45   | R.S. Airlift Air, scfm                  | 66         |
| Diffuser SOR O2 Eff., %               | 23.0%  | Skimmer Airlift, scfm                   | 10         |
| Process Air Req'd, scfm               | 434    | Chlorine Basin Air, scfm                | 34         |
| Temperature Adjustment to 30 F        | 1.27   | DeChlor Basin Air, scfm                 | 0          |
| Adjusted Air Flow Rate @ 30 F         | 551    | Total Air Supply Req'd, scfm            | 1298       |
|                                       |        | No. of Blowers, scfm                    | 6          |
|                                       |        | Capacity, scfm                          | 1600       |
|                                       |        | Firm Capacity, scfm                     | 8,000      |
|                                       |        | Blower Pressure, psig                   | 7.25       |

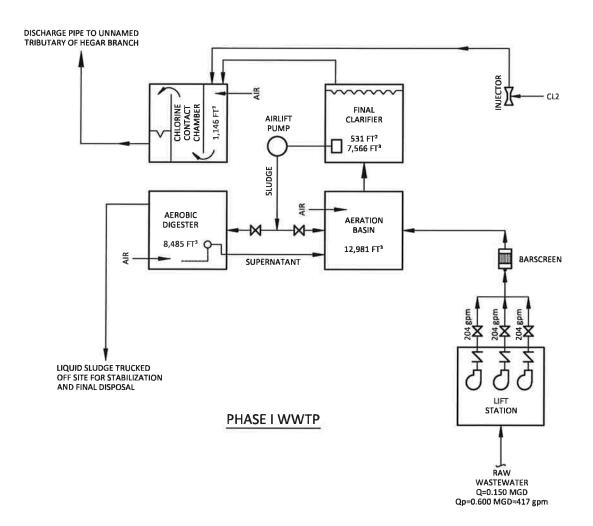
#### **DESIGN FEATURES FOR RELIABILITY**

The Willis 207 Wastewater Treatment Plant facilities will be designed to provide a high degree of mechanical reliability consistent with TCEQ Design Criteria. The following describe design features that will be incorporated at the facilities to prevent bypassing or overflows of untreated wastewater:

- A. No infiltration/inflow is anticipated since the collection system will be new and not subject to the effects of age and deterioration at this time.
- B. The electrical service that will serve the Willis 207 WWTP is reliable with most outages lasting less than 2-4 hours. However, Mark D. McDonald and Paul D. Smith plan to purchase a generator to operate necessary plant components during extended outages.
- C. All mechanical units, such as influent pumps, blowers and chemical feed pumps will be installed with spare units in the event a piece of equipment is out of service for repairs.
- D. Plant units will be maintained per TCEQ standards and repaired as quickly as possible should failure occur.
- E. The facilities will include an auto-dialer that will call the operator in case of power outages, blower malfunctions, lift station malfunctions or high-water alarm situations.

### **Process Flow Diagram**

(Reference Technical Report Page 2, Question 2c)



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#### ₩ WATERENGINEERS,INC.

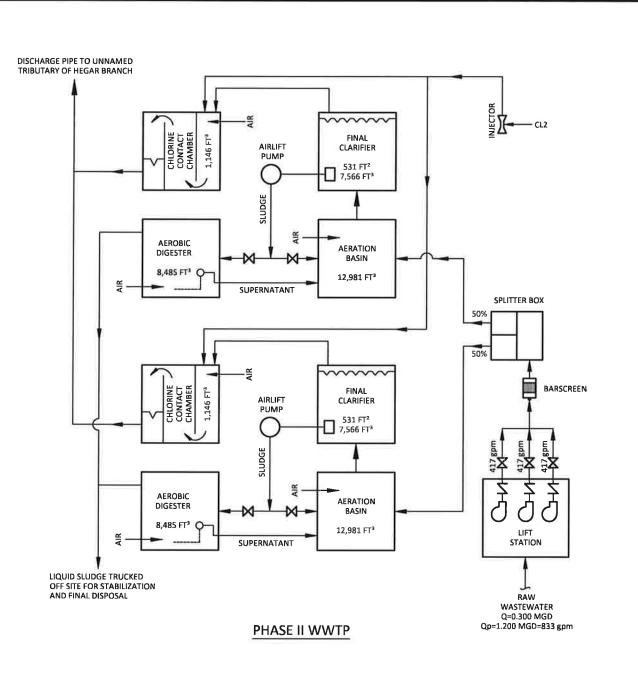
Water & Wastewater Treatment Consultants TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD TEL: 281-373-0500
CYPRESS, TEXAS 77429 FAX: 281-373-1113

MARK A MCDONALD & PAUL A SMITH -CO-APPLICANTS WILLIS 207 WWTP APPLICATION FOR A NEW TPDES PERMIT

#### **FLOW SCHEMATIC**

DWG. NO.: DRAWN BY: BIR APPROVED BY: SBY SCALE: AS NOTED 3/19/2024 DATE: JOB No.: 6165-24031

**TECH.02-1** 



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

17230 HUFFMEISTER ROAD CYPRESS, TEXAS 77429 TEL: 281-373-0500 FAX: 281-373-1113

MARK A MCDONALD & PAUL A SMITH -CO-APPLICANTS WILLIS 207 WWTP APPLICATION FOR A NEW TPDES PERMIT

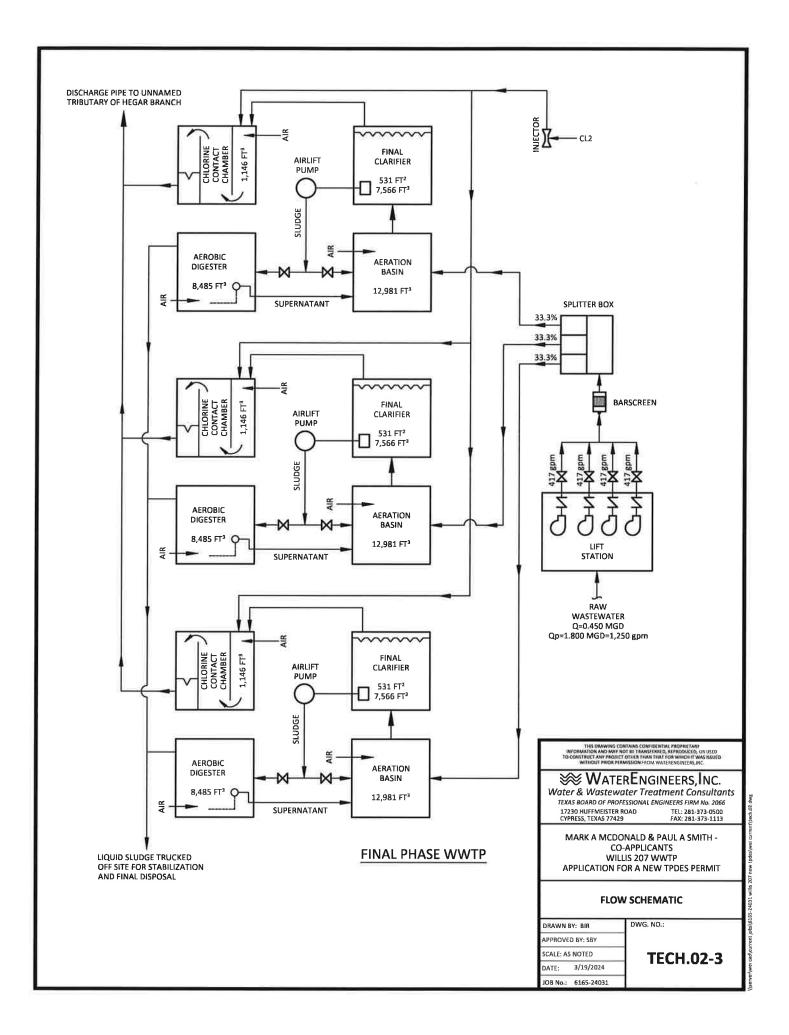
#### FLOW SCHEMATIC

DRAWN BY: BIR D
APPROVED BY: SBY

SCALE: AS NOTED
DATE: 3/19/2024

JOB No.: 6165-24031

**TECH.02-2** 

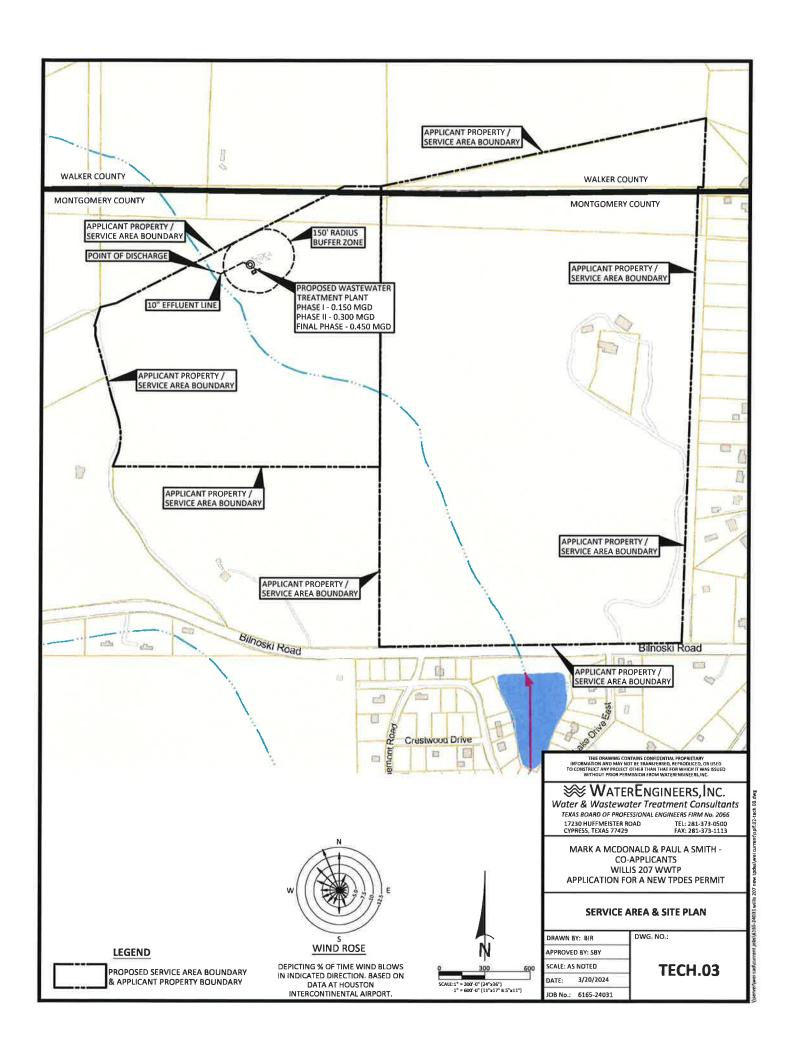


### **Site Drawing**

(Reference Technical Report Page 2, Question 3)

(Including Wind Rose)

(Reference Technical Report Page 23, Question 7)



### **Solids Management Plan**

(Reference Technical Report Page 8, Question 6F And Page 23, Question 5B)

#### ATTACHMENT TECH.04 SLUDGE MANAGEMENT PLAN

#### 1. Type of Wastewater Treatment Process Used

The Willis 207 Wastewater Treatment Plant (WWTP) will use the activated sludge with nitrification process. Solids analyses have been made based upon a spreadsheet calculation set up using sludge kinetic calculations developed by Dr. Ross McKinney and published in *Notes on Activated Sludge*, 1971, by Brian L. Goodman. Table TECH.04-01, TECH.04-02 and TECH.04-03 show the process design and sludge generation calculations for the design flows of 150,000 gpd, 300,000 gpd and 450,000 gpd.

#### 2. Dimensions and Capacities

In Phase I the treatment facility will have a digester tank with a volume of 8,485 cu. ft., a surface area of 558 sq. ft. and a 14.5 ft. side water depth. The digester will provide a total design flow loading of 22.6 cu. ft./1b BOD. In Phase II an identical plant will be built providing a total digester volume of 16,971 cu. ft., total surface area of 1,170 sq. ft. and 14.5 ft. side water depth. The Phase II digesters will provide a total design flow loading of 22.6 cu. ft./1b BOD. In the Final Phase, another identical plant will be built providing a total digester volume of 25,456 cu. ft., total surface area of 1,756 sq. ft. and 14.5 ft. side water depth. The Final Phase digesters will provide a total design flow loading of 22.6 cu. ft./1b BOD.

#### 3. Sludge Generation Calculations

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

| Phase    | Solids @<br>100% Qavg,<br>lb/day | Solids @<br>75% Qavg,<br>lb/day | Solids @<br>50% Qavg,<br>lb/day | Solids @<br>25% Qavg,<br>lb/day |
|----------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Phase I  | 256                              | 192                             | 128                             | 64                              |
| Phase II | 512                              | 384                             | 256                             | 128                             |
| Final    | 768                              | 576                             | 384                             | 192                             |

#### 4. Operating Range of Mixed Liquor Suspended Solids

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

|          | ı                      | ed Solids<br>% Flow |                        | ed Solids<br>6 Flow | Predicte<br>@50%       |               | l .                    | ed Solids<br>6 Flow |
|----------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------|------------------------|---------------------|
|          | sludge<br>age,<br>days | MLSS<br>mg/l        | sludge<br>age,<br>days | MLSS<br>mg/l        | sludge<br>age,<br>days | MLS<br>S mg/l | sludge<br>age,<br>days | MLSS<br>mg/l        |
| Phase I  | 11                     | 3,599               | 14.5                   | 3,560               | 22                     | 3,602         | 44                     | 3,604               |
| Phase II | 11                     | 3,599               | 14.5                   | 3,560               | 22                     | 3,602         | 44                     | 3,604               |
| Final    | 11                     | 3,599               | 14.5                   | 3,560               | 22                     | 3,602         | 44                     | 3,604               |

#### 5. Solids Removal Procedures

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

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

The quantity of solids to be removed at the various plant loadings are presented in the following table. These quantities shown in the tabulation are *monthly* quantities based upon an influent BOD of 300 mg/l and TSS of 200 mg/l. If the strength of the influent wastewater varies significantly, solids removal quantities will be different.

|          | _           | % Flow acity  | @ 75 % Flow<br>Capacity |               | 1 0         |               | @ 25 % Flow<br>Capacity |               |
|----------|-------------|---------------|-------------------------|---------------|-------------|---------------|-------------------------|---------------|
| Phase    | %<br>Solids | Gal/<br>Month | %<br>Solids             | Gal/<br>Month | %<br>Solids | Gal/<br>Month | %<br>Solids             | Gal/<br>Month |
| Phase I  | 2.0         | 36,478        | 2.0                     | 27,373        | 2.0         | 18,254        | 2.0                     | 9,131         |
| Phase II | 2.0         | 72,957        | 2.0                     | 54,746        | 2.0         | 36,508        | 2.0                     | 18,262        |
| Final    | 2.0         | 109,435       | 2.0                     | 82,119        | 2.0         | 54,762        | 2.0                     | 27,392        |

#### 7. Identification of Disposal Site

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

## ATTACHMENT TECH.04-1 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS CONCENTRIC CIRCULAR CONCRETE WALL DESIGN WILLIS 207 WASTEWATER TREATMENT PLANT

| INFLUENT CONDITIONS                                  |                  |                                       |                        |                  |
|--|------------------|---------------------------------------|------------------------|------------------|
| Design Flow Rate, mgd 0.150                          |                  | Aeration Vo                           | l, cu ft               | 12,981           |
| Infl. BOD, mg/l 300                                  |                  |                                       | neter, ft (each)       | 26               |
| Infl. TSS, mg/l 200                                  |                  |                                       | Wall Depth, ft         | 14.1             |
| Infl. VSS, mg/l 160                                  |                  |                                       | ace Area, sq ft (total | 531              |
| BOD Loading, lb/day 375                              |                  |                                       | me, cu ft (total)      | 7,486            |
| BOD Load, #/1000 cu ft 28.95                         |                  | Temperatur                            | • ,                    | 20               |
|  |                  | , , , , , , , , , , , , , , , , , , , | -, <b>.</b>            |                  |
| Actual Plant Loading, %                              | 100%             | 75.0%                                 | 50%                    | 25.0%            |
| Actual Flow Rate, mgd                                | 0.150            | 0.113                                 | 0.075                  | 0.038            |
| BOD Loading, #/Day                                   | 375              | 281                                   | 188                    | 94               |
| Ret. Sludge Rate, gpd/sq ft                          | 400              | 400                                   | 400                    | 400              |
| Ret. Sludge Flow, mgd                                | 0.21             | 0.21                                  | 0.21                   | 0.21             |
| t = Aeration Time, days                              | 0.647            | 0.863                                 | 1.295                  | 2.589            |
| ts = Sludge Age, Days                                | 11.0             | 14.5                                  | 22.0                   | 44.0             |
| Km = BOD Removal Metabolic Facto                     |                  | 360                                   | 360                    | 360              |
| Ks = Synthesis Factor                                | 250              | 250                                   | 250                    | 250              |
| Ke = Endogenous Metabolism Facto                     |                  | 0.17                                  | 0.11                   | 0.05             |
| F = Effl Soluble BOD                                 | 1.28             | 0.96                                  | 0.64                   | 0.32             |
| Ma = Active Mass                                     | 1,037            | 1,026                                 | 1,039                  | 1,040            |
| Me = Endogenous Mass                                 | 597              | 591                                   | 598                    | 599              |
| Mi = Inert Organic Mass                              | 952              | 941                                   | 952                    | 952              |
| Mii = Inert Inorganic Mass                           | 1,013            | 1,002                                 | 1,013                  | 1,014            |
| Mt = Total Mass, mg/l                                | 3,599            | 3,560                                 | 3,602                  | 3,604            |
| Total Mass in Aeration Basin, Ib                     | 2,914            | 2,883                                 | 2,917                  | 2,919            |
| Lb BOD/Lb MLSS/Day                                   | 0.129            | 0.098                                 | 0.064                  | 0.032            |
| Effl TSS, mg/l                                       | 7                | 7                                     | 7                      | 7                |
| Effl BOD, mg/l                                       | 3                | 2                                     | 2                      | 2                |
| Sludge Accumulation, lb/day                          | 265              | 199                                   | 133                    | 66               |
| TSS Lost In Effluent, lb/day                         | 9                | 7                                     | 5                      | 2                |
| Waste Sludge, lb/day                                 | 256              | 192                                   | 128                    | 64               |
| Return Sludge Conc, mg/l                             | 6,140            | 5,445                                 | 4,875                  | 4,241            |
| Waste Sludge Conc, mg/l                              | 10,000           | 10,000                                | 10,000                 | 10,000           |
| Waste Sludge Flow, gpd                               | 3,069            | 2,304                                 | 1,536                  | 768              |
|  |                  |                                       |                        |                  |
| AEROBIC DIGESTER Volume, cu ft                       | 8,485            |                                       |                        |                  |
| Design Loading, cu ft/lb BOD                         | 22.61            | 20.15                                 | 45.00                  | 00.44            |
| <u> </u>   |                  | 30.15                                 | 45.22                  | 90.44            |
| Incoming Sludge Conc, mg/l Thick Sludge Conc, mg/l   | 10,000<br>20,000 | 10,000<br>20,000                      | 10,000                 | 10,000<br>20,000 |
| Detention, Days                                      | 41.37            | 20,000<br>55.11                       | 20,000<br>82.65        | ,                |
| Infl Total Solids, lb/day                            | 41.37<br>256     | 192                                   |                        | 165.20           |
| Infl Active Mass, lb/day                             | 74               | 55                                    | 128<br>37              | 64<br>18         |
| Effl Active Mass, lb/Day                             | 74               | 55<br>5                               |                        | 2                |
| Active Mass Red., lb/day                             | 53               | 40                                    | 4<br>27                | 13               |
| Digester Effl Solids, lb/day                         | 203              | 152                                   | 101                    | 51               |
| Sludge Disposed, lb/mg                               | 1,352            | 1,353                                 | 1,353                  | 1,354            |
| Sludge Disposed, lb/mg Sludge Disposed, tons/mg      | 0.68             | 0.68                                  | 0.68                   | 0.68             |
| Sludge Disposed, tons/riig<br>Sludge Hauled, gal/day | 1,216            | 912                                   | 608                    | 304              |
| Sludge Hauled, gal/month                             | 36,478           | 27,373                                | 18,254                 | 9,131            |
| Ciaage Hadiea, gai/month                             |                  | 21,010                                | 10,207                 | 9,101            |

## ATTACHMENT TECH.04-2 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS CONCENTRIC CIRCULAR CONCRETE WALL DESIGN WILLIS 207 WASTEWATER TREATMENT PLANT

| INFLUENT CONDITIONS              |         |              |                           |        |  |
|----------------------------------|---------|--------------|---------------------------|--------|--|
| Design Flow Rate, mgd 0.30       | 10      | Aeration \   | /ol, cu ft                | 25,963 |  |
| Infl. BOD, mg/l 30               | 10      | Clarifier Di | ameter, ft (each)         | 26     |  |
| Infl. TSS, mg/l 20               | 00      | Clarifier Si | de Wall Depth, ft         | 14.1   |  |
| Infl. VSS, mg/l                  | 80      | Clarifier St | urface Area, sq ft (total | 531    |  |
| BOD Loading, lb/day 75           | 51      |              | olume, cu ft (total)      | 7,486  |  |
| BOD Load, #/1000 cu ft 28.9      |         |              | ure, deg C                | 20     |  |
| ,                                |         | •            | , 0                       |        |  |
| Actual Plant Loading, %          | 100%    | 75.0%        | 50%                       | 25.0%  |  |
| Actual Flow Rate, mgd            | 0.300   | 0.225        | 0.150                     | 0.075  |  |
| BOD Loading, #/Day               | 751     | 563          | 375                       | 188    |  |
| Ret. Sludge Rate, gpd/sq ft      | 400     | 400          | 400                       | 400    |  |
| Ret. Sludge Flow, mgd            | 0.21    | 0.21         | 0.21                      | 0.21   |  |
| t = Aeration Time, days          | 0.647   | 0.863        | 1.295                     | 2.589  |  |
| ts = Sludge Age, Days            | 11.0    | 14.5         | 22.0                      | 44.0   |  |
| Km = BOD Removal Metabolic Fac   | tc 360  | 360          | 360                       | 360    |  |
| Ks = Synthesis Factor            | 250     | 250          | 250                       | 250    |  |
| Ke = Endogenous Metabolism Fac   | to 0.22 | 0.17         | 0.11                      | 0.05   |  |
| F = Effl Soluble BOD             | 1.28    | 0.96         | 0.64                      | 0.32   |  |
| Ma = Active Mass                 | 1,037   | 1,026        | 1,039                     | 1,040  |  |
| Me = Endogenous Mass             | 597     | 591          | 598                       | 599    |  |
| Mi = Inert Organic Mass          | 952     | 941          | 952                       | 952    |  |
| Mii = Inert Inorganic Mass       | 1,013   | 1,002        | 1,013                     | 1,014  |  |
| Mt = Total Mass, mg/l            | 3,599   | 3,560        | 3,602                     | 3,604  |  |
| Total Mass in Aeration Basin, lb | 5,828   | 5,765        | 5,835                     | 5,838  |  |
| Lb BOD/Lb MLSS/Day               | 0.129   | 0.098        | 0.064                     | 0.032  |  |
| EffI TSS, mg/I                   | 7       | 7            | 7                         | 7      |  |
| Effl BOD, mg/l                   | 3       | 2            | 2                         | 2      |  |
| Sludge Accumulation, lb/day      | 530     | 398          | 265                       | 133    |  |
| TSS Lost In Effluent, lb/day     | 18      | 13           | 9                         | 5      |  |
| Waste Sludge, lb/day             | 512     | 384          | 256                       | 128    |  |
| Return Sludge Conc, mg/l         | 8,682   | 7,331        | 6,147                     | 4,877  |  |
| Waste Sludge Conc, mg/l          | 10,000  | 10,000       | 10,000                    | 10,000 |  |
| Waste Sludge Flow, gpd           | 6,137   | 4,607        | 3,072                     | 1,537  |  |
|                                  |         |              |                           |        |  |
| AEROBIC DIGESTER                 | 40.074  |              |                           |        |  |
| Volume, cu ft                    | 16,971  | 22.45        | 45.00                     |        |  |
| Design Loading, cu ft/lb BOD     | 22.61   | 30.15        | 45.22                     | 90.44  |  |
| Incoming Sludge Conc, mg/l       | 10,000  | 10,000       | 10,000                    | 10,000 |  |
| Thick Sludge Conc, mg/l          | 20,000  | 20,000       | 20,000                    | 20,000 |  |
| Detention, Days                  | 41.37   | 55.11        | 82.65                     | 165.20 |  |
| Infl Total Solids, lb/day        | 512     | 384          | 256                       | 128    |  |
| Infl Active Mass, lb/day         | 147     | 111          | 74                        | 37     |  |
| Effl Active Mass, lb/Day         | 15      | 11           | 7                         | 4      |  |
| Active Mass Red., lb/day         | 106     | 80           | 53                        | 27     |  |
| Digester Effl Solids, lb/day     | 406     | 304          | 203                       | 102    |  |
| Sludge Disposed, lb/mg           | 1,352   | 1,353        | 1,353                     | 1,354  |  |
| Sludge Disposed, tons/mg         | 0.68    | 0.68         | 0.68                      | 0.68   |  |
| Sludge Hauled, gal/day           | 2,432   | 1,825        | 1,217                     | 609    |  |
| Sludge Hauled, gal/month         | 72,957  | 54,746       | 36,508                    | 18,262 |  |
|                                  |         |              |                           |        |  |

## ATTACHMENT TECH.04-3 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS CONCENTRIC CIRCULAR CONCRETE WALL DESIGN WILLIS 207 WASTEWATER TREATMENT PLANT

| INFLUENT CONDITIONS              |         |                    |              |        |
|----------------------------------|---------|--------------------|--------------|--------|
| Design Flow Rate, mgd 0.450      |         | Aeration Vol, cu   | ft           | 38,944 |
| Infl. BOD, mg/l 300              |         | Clarifier Diameter |              | 26     |
| Infl. TSS, mg/l 200              |         | Clarifier Side Wa  | ll Depth, ft | 14.1   |
| Infl. VSS, mg/l                  |         | Clarifier Surface  |              | 531    |
| BOD Loading, lb/day 1,126        |         | Clarifier Volume,  |              | 7,486  |
| BOD Load, #/1000 cu ft 28.95     |         | Temperature, de    | , ,          | 20     |
|                                  |         | •                  | •            |        |
| Actual Plant Loading, %          | 100%    | 75.0%              | 50%          | 25.0%  |
| Actual Flow Rate, mgd            | 0.450   | 0.338              | 0.225        | 0.113  |
| BOD Loading, #/Day               | 1126    | 844                | 563          | 281    |
| Ret. Sludge Rate, gpd/sq ft      | 400     | 400                | 400          | 400    |
| Ret. Sludge Flow, mgd            | 0.21    | 0.21               | 0.21         | 0.21   |
| t = Aeration Time, days          | 0.647   | 0.863              | 1.295        | 2.589  |
| ts = Sludge Age, Days            | 11.0    | 14.5               | 22.0         | 44.0   |
| Km = BOD Removal Metabolic Facto | 360     | 360                | 360          | 360    |
| Ks = Synthesis Factor            | 250     | 250                | 250          | 250    |
| Ke = Endogenous Metabolism Facto | 0.22    | 0.17               | 0.11         | 0.05   |
| F = Effl Soluble BOD             | 1.28    | 0.96               | 0.64         | 0.32   |
| Ma = Active Mass                 | 1,037   | 1,026              | 1,039        | 1,040  |
| Me = Endogenous Mass             | 597     | 591                | 598          | 599    |
| Mi = Inert Organic Mass          | 952     | 941                | 952          | 952    |
| Mii = Inert Inorganic Mass       | 1,013   | 1,002              | 1,013        | 1,014  |
| Mt = Total Mass, mg/l            | 3,599   | 3,560              | 3,602        | 3,604  |
| Total Mass in Aeration Basin, lb | 8,743   | 8,648              | 8,752        | 8,757  |
| Lb BOD/Lb MLSS/Day               | 0.129   | 0.098              | 0.064        | 0.032  |
| Effl TSS, mg/l                   | 7       | 7                  | 7            | 7      |
| Effl BOD, mg/l                   | 3       | 2                  | 2            | 2      |
| Sludge Accumulation, lb/day      | 795     | 596                | 398          | 199    |
| TSS Lost In Effluent, lb/day     | 27      | 20                 | 14           | 7      |
| Waste Sludge, lb/day             | 768     | 576                | 384          | 192    |
| Return Sludge Conc, mg/l         | 11,224  | 9,216              | 7,419        | 5,514  |
| Waste Sludge Conc, mg/l          | 10,000  | 10,000             | 10,000       | 10,000 |
| Waste Sludge Flow, gpd           | 9,206   | 6,911              | 4,608        | 2,305  |
| AEROBIC DIGESTER                 |         |                    |              |        |
| Volume, cu ft                    | 25,456  |                    |              |        |
| Design Loading, cu ft/lb BOD     | 22.61   | 30.15              | 45.22        | 90.44  |
| Incoming Sludge Conc, mg/l       | 10,000  | 10,000             | 10,000       | 10,000 |
| Thick Sludge Conc, mg/l          | 20,000  | 20,000             | 20,000       | 20,000 |
| Detention, Days                  | 41.37   | 55.11              | 82.65        | 165.20 |
| Infl Total Solids, lb/day        | 768     | 576                | 384          | 192    |
| Infl Active Mass, lb/day         | 221     | 166                | 111          | 55     |
| Effl Active Mass, lb/Day         | 22      | 16                 | 11           | 6      |
| Active Mass Red., lb/day         | 159     | 120                | 80           | 40     |
| Digester Effl Solids, lb/day     | 608     | 457                | 304          | 152    |
| Sludge Disposed, lb/mg           | 1,352   | 1,353              | 1,353        | 1,354  |
| Sludge Disposed, tons/mg         | 0.68    | 0.68               | 0.68         | 0.68   |
| Sludge Hauled, gal/day           | 3,648   | 2,737              | 1,825        | 913    |
| Sludge Hauled, gal/month         | 109,435 | 82,119             | 54,762       | 27,392 |
|                                  |         |                    |              |        |

### **Development Schedule**

(Reference Technical Report Page 20, Section 1A)

## ATTACHMENT TECH.06 MARK D. MCDONALD & PAUL D. SMITH - CO-APPLICANTS WILLIS 207 WASTEWATER TREATMENT PLANT WQ00 NEW

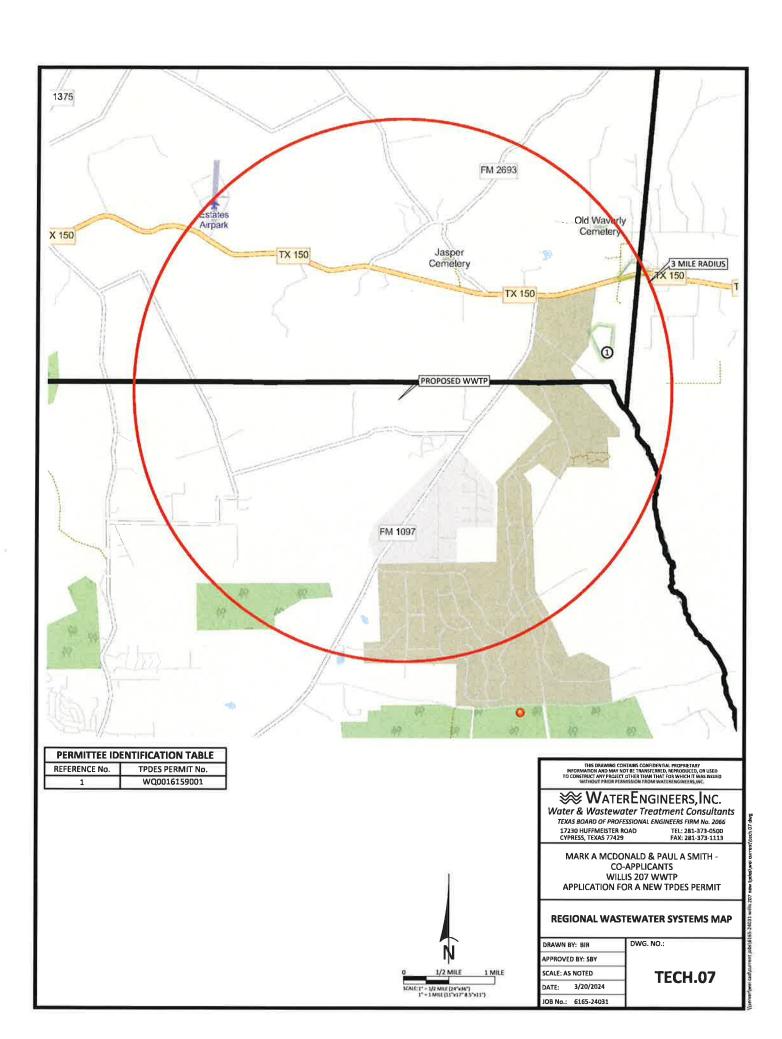
#### DEVELOPMENT SCHEDULE

|          | NUMBER C | OF ESFC |  |
|----------|----------|---------|--|
| YEAR     | CONNEC   | TIONS   |  |
|          |          |         | GALLONS  |
|          | ANNUAL   | TOTAL   | TO WWTP  |
| End 2026 | 200      | 200     | 45000 1ST 0.150 mgd WWTP constructed by Q4 2025  |
| End 2027 | 200      | 400     | 90000  |
| End 2028 | 200      | 600     | 135000   |
| End 2029 | 200      | 800     | 180000 2ND 0.150 mgd WWTP constructed by Q2 2029 |
| End 2030 | 200      | 1000    | 225000   |
| End 2031 | 200      | 1200    | 270000   |
| End 2032 | 200      | 1400    | 315000 3RD 0.150 mgd WWTP constructed by Q3 2032 |
| End 2033 | 200      | 1600    | 360000   |
| End 2034 | 200      | 1800    | 405000   |
| End 2035 | 200      | 2000    | 450000   |

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

**Service Request Correspondence** 

(Reference Technical Report Page 20, Section 1B3)



#### WATER & WASTEWATER TREATMENT CONSULTANTS

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

March 7, 2024

Peach Creek TX LLC 1135 Grand Central Parkway, Suite 250 Conroe, Texas 77304

Re:

TCEQ Waste Discharge Permit No. WQ0016159001

Dear Permittee:

We are writing to you on behalf of Mark D. McDonald and Paul D. Smith regarding a proposed wastewater treatment plant project to serve the proposed development located northwest of the intersection of E. Farm-to-Market 1097 and Bilnoski Road in Montgomery County as shown on the attached map. The proposed wastewater system will serve approximately 2,000 equivalent single-family connections. Mark D. McDonald and Paul D. Smith are in the process of applying for a new TCEQ Wastewater Discharge Permit for 450,000 gpd.

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

We will appreciate receiving a response from you indicating if 450,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at <a href="mailto:syoung@waterengineers.com">syoung@waterengineers.com</a> or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely,

WATERENGINEERS, INC.

#### Shelley Young

Shelley Young, P.E.

cc: Mark D. McDonald and Paul D. Smith

| REPI                                   | $\sim 1/a$                               |
|--|--|
| Date of Reply: 03 07 2024              | Signature:                               |
| Name of Permittee: Peach Creek TX, LLC | Printed Name: Chris Wren                 |
| Capacity Available (Yes / No)?         | Title: Manager                           |
| Terms (if available)                   | Address: 1135 Grand Central Pkwy Ste 250 |
|  | Conroe, TX 77304                         |
|  | Telephone: 281 - 705 - 6416              |
|  | Email: Cwren@treatyoakdev.com            |