



Technical Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
 - English
 - Alternative Language (Spanish)
 2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
 - English
 - Alternative Language (Spanish)
 3. Second notice (NAPD-Notice of Preliminary Decision)
 - English
 - Alternative Language (Spanish)
 4. Application materials *
 5. Draft permit *
 6. Technical summary or fact sheet *
-



Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

1. Resumen de la solicitud (en lenguaje sencillo)
 - Inglés
 - Idioma alternativo (español)
2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
 - Inglés
 - Idioma alternativo (español)
3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
 - Inglés
 - Idioma alternativo (español)
4. Materiales de la solicitud **
5. Proyecto de permiso **
6. Resumen técnico u hoja de datos **

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

AGUAS RESIDUALES DOMÉSTICAS

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

Century Communities, Inc. (CN605401645) propuesta operar la Planta de Tratamiento de Aguas Residuales del Distrito de Servicios Públicos Municipales del Condado Waller No. 46 (RN111996773). La instalación va a hacer una planta de concreto que va a consistir de una (1) pantalla de barra manual, cuatro (4) tanques de aeración, cuatro (4) clarificadores finales, ocho (8) digestores aeróbicos, y cuatro (4) tanques de contacto de cloro. La facilidad va a estar ubicada aproximadamente 0.14 millas Este Noreste de la intersección de Falcon Drive y Farm to Market Road 529, cerca de Brookshire, Waller County, Texas 77583.

Esta solicitud es para una nueva Sistema de Eliminación de Vertidos Contaminantes de Texas (TPDES) permiso para la descarga de aguas residuales tratadas a un volumen de promedio diario de 720,000 galones por día.

Se espera que las descargas de la instalación contengan una demanda bioquímica de oxígeno de cinco días (CBOD5) de 7 miligramos por litro (mg/L), sólidos suspendidos totales (SST) de 15 mg/L, nitrógeno amoniacal (NH3-N) de 2 mg/L, y Escherichia coli (E. coli). Las aguas residuales domésticas serán tratadas por una planta de proceso de lodos activados operada en modo de mezcla completa.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

Century Communities, Inc. (CN 605401645) proposes to operate Waller County Municipal Utility District No. 46, (RN111996773. a wastewater treatment plant that shall consist of one (1) elevated headworks platform, four (4) aeration basins, four (4) final clarifiers, eight (8) aerobic digesters, and four (4) chlorine contact basins. The facility will be located approximately 0.14 miles west-northwest of Falcon Drive and Farm to Market Road 529, near Brookshire, Waller County, Texas 77423.

This application is for a new application to discharge at a daily average flow of 720,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain 7 milligrams per liter (mg/L) of CBOD₅, 15 mg/L TSS, 2 mg/L NH₃-N, and 1-4 mg/L chlorine. Domestic wastewater will be treated by an activated sludge wastewater treatment plant operated in the complete mix mode with nitrification.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016562001

APPLICATION. Century Communities, Inc., 333 Cypress Run, Suite 200, Houston, Texas 77094, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016562001 (EPA I.D. No. TX0146226) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 720,000 gallons per day. The domestic wastewater treatment facility will be located approximately 0.14 miles west-northwest of the intersection of Falcon Drive and Farm-to-Market Road 529, near the city of Brookshire, in Waller County, Texas 77423. The discharge route will be from the plant site via storm sewer to unnamed ditch; thence to Brookshire Creek; thence to Bessies Creek; thence to Brazos River Below Navasota River. TCEQ received this application on June 21, 2024. The permit application will be available for viewing and copying at Waller County Library – Brookshire Pattison Library, Front Desk, 3815 6th Street, Brookshire, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.9415,29.8745&level=18>

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

El aviso de idioma alternativo en español está disponible en

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public

interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at <https://www14.tceq.texas.gov/epic/eComment/>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Century Communities, Inc. at the address stated above or by calling Ms. Valerie Lara, P.E., Assistant Project Manager, EHRA Engineering, at 713-784-4500.

Issuance Date: July 29, 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. WQ0016562001

SOLICITUD. Century Communities, Inc., 333 Cypress Run, Suite 200, Houston, Texas 77094, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016562001 (EPA I.D. No. TX0146226) 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 720,000 galones por día. La planta está ubicada aproximadamente 0.14 millas Oeste Noroeste de la intersección de Falcon Drive y Farm to Market Road 529, cerca de Brookshire en el Condado de Waller, Texas 77423. La ruta de descarga es del sitio de la planta a una zanja sin nombre; desde allí al Arroyo de Brookshire; desde allí al Arroyo de Bessie; desde allí al Rio Brazos abajo del Rio Navasota (Segmento 1202). La TCEQ recibió esta solicitud el 21 de junio de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Waller County Library – Brookshire Pattison Library, 3815 6th Street, Brookshire, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>. 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=-95.9415,29.8745&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. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

También se puede obtener información adicional del Century Communities, Inc. a la dirección indicada arriba o llamando a Sra. Valerie Lara, P.E. de EHRA Engineering al 713-784-4500.

Fecha de emisión 29 de julio de 2024

Texas Commission on Environmental Quality



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

NEW

PERMIT NO. WQ0016562001

APPLICATION AND PRELIMINARY DECISION. Century Communities, Inc., 333 Cypress Run, Suite 200, Houston, Texas 77094, has applied to the Texas Commission on Environmental Quality (TCEQ) for new Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016562001, to authorize the discharge of treated domestic wastewater at a daily average flow not to exceed 720,000 gallons per day. TCEQ received this application on June 21, 2024.

The facility will be located approximately 0.14 miles west-northwest of the intersection of Falcon Drive and Farm-to-Market Road 529, near the City of Brookshire, Waller County, Texas 77423. The treated effluent will be discharged to via storm sewer to an unnamed ditch, thence to Brookshire Creek, thence to Bessies Creek thence to Brazos River Below Navasota River in Segment No. 1202 of the Brazos River Basin. The unclassified receiving water use is minimal aquatic life use for the unnamed ditch. The designated uses for Segment No. 1202 are primary contact recreation, public water supply, and high aquatic life use. 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. This review has preliminarily determined that no water bodies with exceptional, high, or intermediate aquatic life uses are present within the stream reach assessed; therefore, no Tier 2 degradation determination is required. No significant degradation of water quality is expected in water bodies with exceptional, high, or intermediate aquatic life uses downstream, and existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. All determinations are preliminary and subject to additional review and/or revisions. 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=-95.941388,29.874444&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 Waller County Library – Brookshire Pattison Library, Front Desk, 3815 6th Street, Brookshire, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/tpdes-applications>.

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from Century Communities, Inc. at the address stated above or by calling Ms. Valerie Lara, P.E., Assistant Project Manager, EHRA Engineering, at 713-784-4500.

Issuance Date: March 19, 2025

Comisión De Calidad Ambiental Del Estado De Texas



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

NUEVO

PERMISO NO. WQ0016562001

SOLICITUD Y DECISIÓN PRELIMINAR. Century Communities, Inc., 333 Cypress Run, Suite 200, Houston, Texas 77094 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) por un nuevo permiso del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) Permiso No. WQ0016562001 para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 720,000 galones por día. La TCEQ recibió esta solicitud el 21 de Junio del 2024.

La planta está ubicada en aproximadamente 0.14 millas Oeste Noroeste de la intersección de Falcon Drive y Farm to Market Road 529, cerca de Brookshire en el Condado de Waller, Texas. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.941388,29.874444&level=18>

El efluente tratado es descargado al tributario sin nombre en el Segmento No. 1202 de la Cuenca del Río Brazos Abajo del Río Navasota. Los usos no clasificados de las aguas receptoras son no significativos usos de la vida acuática para el tributario sin nombre. Los usos designados para el Segmento No. 1202 son elevados uso de vida acuática; abastecimiento de agua potable; recreación con contacto.

De acuerdo con el 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. Esta revisión ha determinado preliminarmente que ninguno de los cuerpos de agua con usos intermedio, alto o excepcional de vida acuática están presentes dentro del acceso para llegar a la corriente; por lo tanto, no se requiere ninguna determinación de degradación del Nivel 2. No se espera ninguna degradación significativa de la calidad del agua en los cuerpos de agua con usos intermedios, elevados o excepcionales de la vida acuática río abajo y que los usos existentes serán mantenidos y protegidos. La determinación preliminar puede ser reexaminada y puede ser modificada, si se recibe alguna información nueva.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Waller County Library - Brookshire Pattison Library, 3815 6th Street, Brookshire, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.

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

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

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

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

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

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

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

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

También se puede obtener información adicional del Century Communities, Inc. a la dirección indicada arriba o llamando a Ms. Valerie Lara, P.E., Assistant Project Manager al 713-784-4500.

Fecha de emisión: 19 de marzo de 2025



TPDES PERMIT NO.
WQ0016562001
*[For TCEQ office use only - EPA I.D.
No. TX0146226]*

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

Century Communities, Inc.

whose mailing address is

333 Cypress Run, Suite 200
Houston, Texas 77094

is authorized to treat and discharge wastes from the Waller County MUD 46 Wastewater Treatment Facility, SIC Code 4952

located approximately 0.14 miles west-northwest of the intersection of Falcon Drive and Farm-to-Market Road 529, near the City of Brookshire, in Waller County, Texas 77423

via storm sewer to an unnamed ditch, thence to Brookshire Creek, thence to Bessies Creek thence to Brazos River Below Navasota River in Segment No. 1202 of the Brazos River Basin

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

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

ISSUED DATE:

For the Commission

INTERIM I EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of issuance and lasting through the completion of expansion to the 0.36 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 0.18 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 500 gallons per minute.

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Min. Self-Monitoring Requirements</u>	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Max. Single Grab Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (11)	12	22	32	One/week	Grab
Total Suspended Solids	12 (18)	20	40	60	One/week	Grab
Ammonia Nitrogen	2 (3.0)	5	10	15	One/week	Grab
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	126	N/A	N/A	399	One/month	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored five times per week by grab sample. 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.
1. 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 REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of completion of expansion to the 0.36 million gallons per day (MGD) facility and lasting through the date of completion of expansion to the 0.72 MGD facility, the permittee is authorized to discharge subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.36 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 1,000 gallons per minute.

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Min. Self-Monitoring Requirements</u>	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Max. Single Grab Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (21)	12	22	32	One/week	Grab
Total Suspended Solids	12 (36)	20	40	60	One/week	Grab
Ammonia Nitrogen	2 (6.0)	5	10	15	One/week	Grab
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	126	N/A	N/A	399	One/month	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored five times per week by grab sample. 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 REQUIREMENTSOutfall Number 001

1. During the period beginning upon the completion of expansion to the 0.72 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 0.72 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,000 gallons per minute.

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Min. Self-Monitoring Requirements</u>	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (42)	12	22	32	One/week	Composite
Total Suspended Solids	12 (72)	20	40	60	One/week	Composite
Ammonia Nitrogen	2 (12)	5	10	15	One/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Two/month	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 4.0 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 n th root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
 - f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
 - g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.
3. Sample Type
- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

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

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

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

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

2. Test Procedures

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

3. Records of Results

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

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

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

Monitoring Team of the Enforcement Division (MC 224).

7. Noncompliance Notification

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

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

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

10. Signatories to Reports

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

11. All POTWs must provide adequate notice to the Executive Director of the following:

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

PERMIT CONDITIONS**1. General**

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

2. Compliance

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

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

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

3. Inspections and Entry

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

4. Permit Amendment and/or Renewal

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

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

5. Permit Transfer

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

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

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

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

OPERATIONAL REQUIREMENTS

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

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

7. Documentation

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

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

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

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

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

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

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

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

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

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

TCEQ Revision 06/2020

SLUDGE PROVISIONS

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

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

A. General Requirements

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

B. Testing Requirements

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

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

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

criteria.

Alternative 1

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

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

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

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

- i. Prior to use or disposal, all the sewage sludge must have been generated from a

single location, except as provided in paragraph v. below;

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

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

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

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

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

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

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

Alternative 9 -

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

Alternative 10 -

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

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- once during the term of this permit
PCBs	- 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):

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

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

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

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

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

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

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk 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 five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

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

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

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

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

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

F. Reporting Requirements

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

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

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

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

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

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

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

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

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

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

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

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

G. Reporting Requirements

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

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

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

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

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

A. General Requirements

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

B. Record Keeping Requirements

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

C. Reporting Requirements

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

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

TCEQ Revision 06/2020

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.

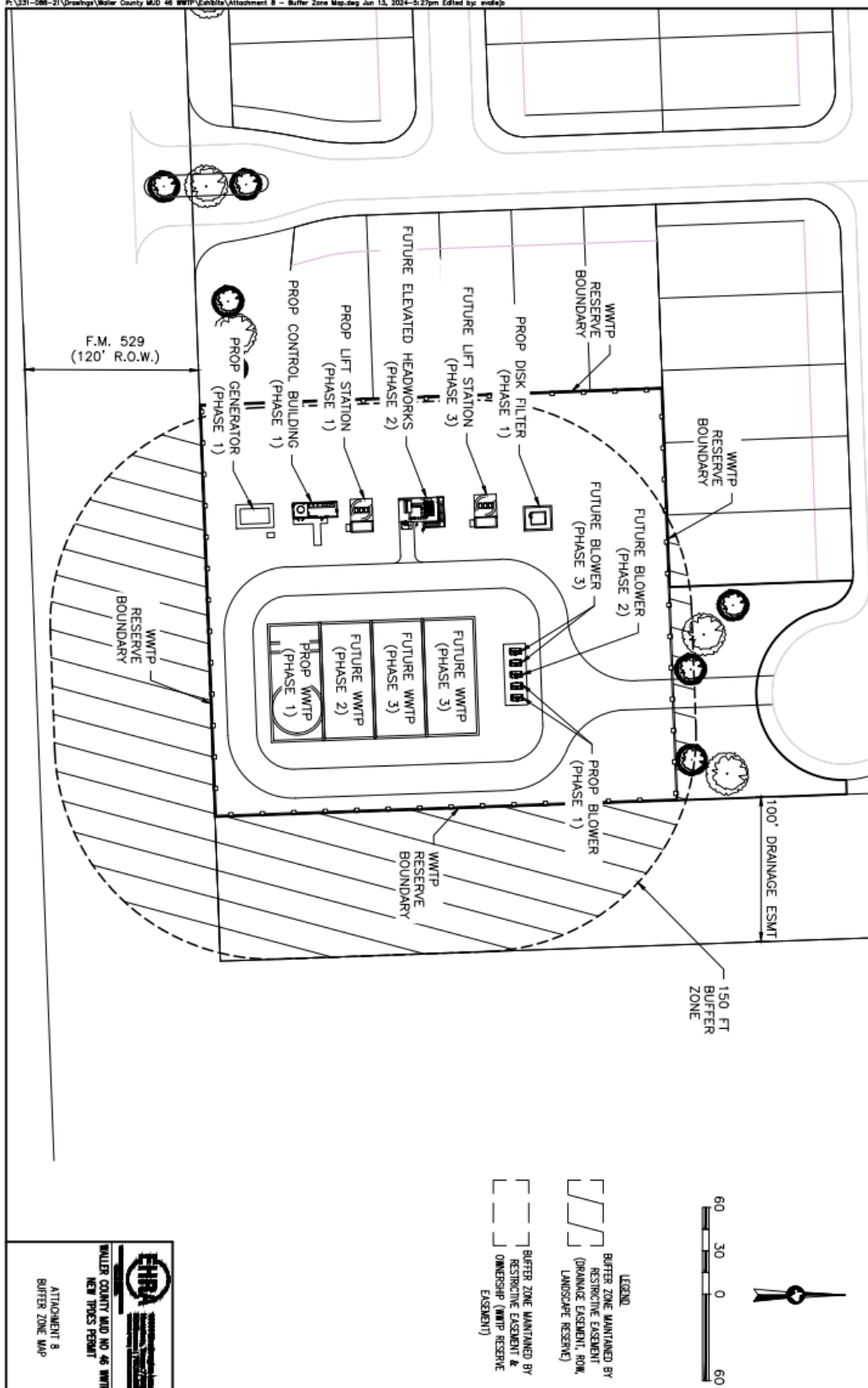
This Category C facility must be operated by a chief operator or an operator holding a Class C license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or 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. Prior to construction of the facility, the permittee shall submit sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3). The evidence of legal restrictions shall be submitted to the Executive Director in care of the TCEQ Wastewater Permitting Section (MC 148). The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). (See Attachment A.)
4. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.
5. 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 and II phases and two/month may be reduced to one/month in the Final phase. **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.
6. Prior to construction of the treatment facilities, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications, and a final engineering design report which

comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Pages 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.

7. 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, whichever occurs first, from the facility described by this permit. 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.

P:\231-008-21\Drawings\Waller County MUD 46 WWTP\Exhibits\Attachment B - Buffer Zone Map.dwg Jun 13, 2024-5:27pm Edited by: ewalle



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

DESCRIPTION OF APPLICATION

Applicant:	Century Communities, Inc. Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016562001, EPA ID No. TX0146226
Regulated Activity:	Domestic Wastewater Permit
Type of Application:	New Permit
Request:	New
Authority:	Federal Clean Water Act (CWA) § 402; Texas Water Code (TWC) § 26.027; 30 Texas Administrative Code (TAC) Chapters 30, 305, 307, 309, 312, and 319; Commission policies; and United States Environmental Protection Agency (EPA) guidelines.

EXECUTIVE DIRECTOR RECOMMENDATION

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

REASON FOR PROJECT PROPOSED

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit to authorize the discharge of treated domestic wastewater at a daily average flow not to exceed 0.18 million gallons per day (MGD) in the Interim I phase, a daily average flow not to exceed 0.36 MGD in the Interim II phase, and a daily average flow not to exceed 0.72 MGD in the Final phase. The proposed wastewater treatment facility will serve the Waller County Municipal Utility District (MUD) No. 46, which will serve a 318-acre residential development consisting of 2,400 single family homes.

PROJECT DESCRIPTION AND LOCATION

The Waller County MUD No. 46 Wastewater Treatment Facility is an activated sludge process plant operated in the complete mix aeration mode. Treatment units in the Interim I phase will include a bar screen, one lift station, one aeration basin, one final clarifier, two sludge digesters, and one chlorine contact chamber. Treatment units in the Interim II phase will include a drum screen, two aeration basins, four final clarifiers, four sludge digesters, and four chlorine contact chambers. Treatment units in the Final phase will include four aeration basins, four final clarifiers, four sludge digesters, eight chlorine contact chambers, and a dechlorination chamber. The facility has not been constructed.

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 0.14 miles west-northwest of the intersection of Falcon Drive and Farm-to-Market Road 529, near the City of Brookshire, in Waller County, Texas 77423.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.874444 N	95.941388 W

The treated effluent will be discharged to via storm sewer to an unnamed ditch, thence to Brookshire Creek, thence to Bessies Creek thence to Brazos River Below Navasota River in Segment No. 1202 of the Brazos River Basin. The unclassified receiving water use is minimal aquatic life use for the unnamed ditch. The designated uses for Segment No. 1202 are primary contact recreation, public water supply, and high aquatic life use. 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. This review has preliminarily determined that no water bodies with exceptional, high, or intermediate aquatic life uses are present within the stream reach assessed; therefore, no Tier 2 degradation determination is required. No significant degradation of water quality is expected in water bodies with exceptional, high, or intermediate aquatic life uses downstream, and existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

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

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

The effluent limits recommended above have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The recommended limits are not contained in the approved WQMP. However, these limits will be included in the next WQMP update.

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

Segment No. 1202 is not currently listed on the State's inventory of impaired and threatened waters, the 2022 Clean Water Act Section 303(d) list.

SUMMARY OF EFFLUENT DATA

There is no effluent data since the facility has not been constructed.

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 0.18 MGD, an interim II volume not to exceed a daily average flow of 0.36 MGD, and a final volume not to exceed a daily average flow of 0.72 MGD.

The effluent limitations in the Interim I and II phases of the draft permit, based on a 30-day average, are 7 mg/l five-day carbonaceous biochemical oxygen demand (CBOD₅), 12 mg/l total suspended solids (TSS), 2.0 mg/l ammonia-nitrogen (NH₃-N), 126 colony-forming units (CFU) or most probable number (MPN) of *Escherichia coli* (*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 7 mg/l CBOD₅, 12 mg/l TSS, 2 mg/l NH₃-N, 126 CFU or MPN of *E. coli* per 100 ml, and 4.0 mg/l minimum DO. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The draft permit authorizes the disposal of

Century Communities, Inc.

TPDES Permit No. WQ0016562001

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

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 7 mg/l CBOD₅, 15 mg/l TSS, 2 mg/l NH₃-N, 126 CFU or MPN of *E. coli* per 100 ml, and 4.0 mg/l minimum DO in all three phases. However, effluent limitations in all three phases of the draft permit are, 7 mg/l CBOD₅, **12 mg/l TSS**, 2 mg/l NH₃-N, 126 CFU or MPN of *E. coli* per 100 ml, and 4.0 mg/l minimum DO.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on June 21, 2024, and additional information received on July 29 2024.
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.
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. Interoffice Memorandum from the Pretreatment Team 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.

PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to

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

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

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

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

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

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

For additional information about this application, contact Sonia Bhuiya at (512) 239-1205.

Sonia Bhuiya
Municipal Permits Team
Wastewater Permitting Section (MC 148)

Date



July 17, 2024

Abesha H. Michael
Applications Review and Processing Team (MC-148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78711-3087

Re: Response to NOD for Proposed Permit No. WQ0016562001 (EPA ID TX0146226)
To be Issued to Century Communities, Inc.
CN605401645, RN111996773
EHRA Project No. 231-088-21

Dear Ms. Michael:

We received your Notice of Deficiency Letter dated July 3, 2024 wherein you requested a response to comments regarding the above-mentioned permit application. Please see below the comments and our responses.

Comment No. 1: Section 1, item B on page 12 of the administrative report 1.1: Thank you for addressing this item. However, landowner #1 is indicated as “multiple owners”. Every affected landowner must be identified, addressed and have to get the notice. Please submit a revised landowners map, cross-referenced mailing list and mailing labels (please submit the labels in a word format).

Response No. 1: The revised landowners map, mailing list, and mailing labels in word format have been sent via email.

Comment No. 2: The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

Response No. 2: We have the following comments on the NORI:

- Paragraph 1, sentence 1, the daily average flow, please add a comma as shown for clarity:
720,000
- Paragraph 1, sentence 2, please remove the “/ water” from the description for accuracy.
- Paragraph 1, sentence 3, please remove “pending RWA confirmation” for clarity.

Comment No. 3: The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template

to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Response No. 3: The Spanish NORI has been included in this response in Microsoft Word format.

Please consider the enclosed documentation and plan revisions, in response to your comments, for declaration of administrative completeness. If you have any questions or need additional information, please contact me at (713) 784-4500 or via email at vlara@ehra.team.

Sincerely,

Valerie Lara, P.E.
Assistant Project Manager
Water and Wastewater Facilities

VAL

Enclosures: Landowners Map, Landowners List, Landowners mailing labels, Spanish NORI

cc:
Francisco Arias, E.I.T.

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. WQ00_____

SOLICITUD. Century Communities, Inc., 333 Cypress Run, Suite 200, Houston, Texas 77094, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016562001 (EPA I.D. No. TX0146226) 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 720,000 galones por día. La planta está ubicada aproximadamente 0.14 millas Oeste Noroeste de la intersección de Falcon Drive y Farm to Market Road 529, cerca de Brookshire en el Condado de Waller, Texas. La ruta de descarga es del sitio de la planta a una zanja sin nombre; desde allí al Arroyo de Brookshire; desde allí al Arroyo de Bessie; desde allí al Rio Brazos abajo del Rio Navasota (Segmento 1202). La TCEQ recibió esta solicitud el 21 de Junio de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Waller County Library – Brookshire Pattison Library, 3815 6th Street, Brookshire, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.9415,29.8745&level=18>

[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange.] El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

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

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la

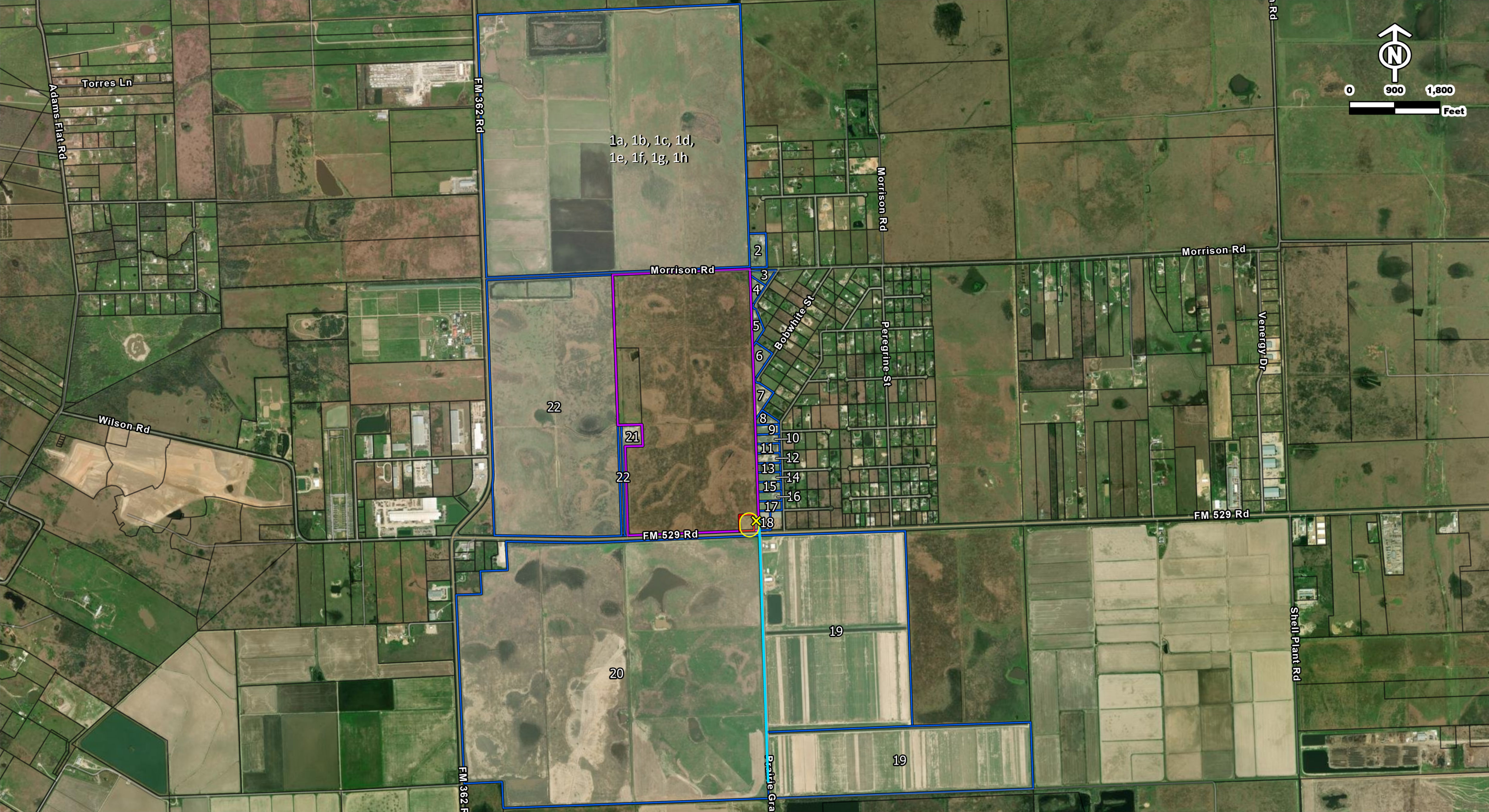
Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número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

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

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

También se puede obtener información adicional del Century Communities, Inc. a la dirección indicada arriba o llamando a Sra. Valerie Lara, P.E. de EHRA Engineering al 713-784-4500.

Fecha de emisión _____ *[Date notice issued]*



Waller County MUD No. 46 WWTP
New TPDES Permit
Attachment 6A Affected Landowners

- Outfall Point
- 1 Mile Downstream
- Service Area & Property Boundary
- Adjacent Parcels
- WWTP Boundary
- 150-Ft Buffer
- Parcels



The data presented herein are for planning and assessment purposes only. EHRA maps are assembled from data originating from Geographic Information System (GIS) databases or GIS services maintained by public entities. They do not represent legal survey. While EHRA strives to provide as accurate and reliable data as possible, EHRA makes no claims or warranty, expressed or implied, regarding the accuracy or validity of the data or products presented.

ID	Owner	Mailing Address	City
1A	RAHLEK LTD	PO BOX 2110	GALVESTON
1B	WATT VIRGINIA MEYERS SEALE	5755 INDIAN CIR	HOUSTON
1C	MAHANA TERESA MOORE TRUST	3903 BELLAIRE BLVD	HOUSTON
1D	MOORE ANDREA REVOCABLE TRUST	30871 SCHLATHER LN	BULVERDE
1E	CAMPBELL JOHN H	2200 MARKET SUITE 804	GALVESTON
1F	CAMPBELL EUGENIA H	4520 CADUCEUS PL	GALVESTON
1G	CAMPBELL DOUGLAS M	3627 GLEN HAVEN	HOUSTON
1H	CAMPBELL ARCHIBALD R III	PO BOX 986	PEARSALL
2	BERRY INES R LIFE ESTATE	32910 MORRISON RD	BROOKSHIRE
3	SANCHEZ JOSE L MEZA	7911 MEADOWLARK ST	BROOKSHIRE
4	ANDRADE EDGAR &	7847 MEADOWLARK RD	BROOKSHIRE
5	GARCIA KEISHA A & JAIME	7800 MEADOWLARK ST	BROOKSHIRE
6	CLAVELLE WANDA JOY	7611 BOB WHITE ST	BROOKSHIRE
7	GUERRERO JESUS	2643 CYPRESS VINE DRIVE	HOUSTON
8	NITSCHKE RANDELL LEE & RUTH ELZIBETH	7403 FALCON DR	BROOKSHIRE
9	LORENZO ROBERT & YVONNE	7313 FALCON DR	BROOKSHIRE
10	BELL CHRISTOPHER I & LINDA J	7223 FALCON DR	BROOKSHIRE
11	AGUILAR RIGOBERTO	5522 PEEK ROAD	KATY
12	MEDINA GILBERTO	19728 SAUMS ROAD #169	HOUSTON
13	CHAPMAN LISA	7203 FALCON DR	BROOKSHIRE
14	CONTRERAS RAFAEL JR & JULIE A	7123 FALCON DRIVE	BROOKSHIRE
15	MARTINEZ JULIO E &	7119 FALCON DRIVE	BROOKSHIRE
16	ESCOBAR FIDEL & MACEDO OLIVA	19910 MILLSTONE RIDGE LANE	KATY
17	SEAMENS ELSA T & MICHA W	7111 FALCON DR	BROOKSHIRE
18	COUNTRY METAL PROPERTIES LLC	2817 E DUPONT RD	FORT WAYNE
19	GAVRANOVIC FAMILY LMTD PTNSHP	32601 FM 529	BROOKSHIRE
20	ROYAL WAILEA INVESTMENTS LP	2047 WESTCREEK LN, SUITE 1303	HOUSTON
21	TWIGGY HOLDINGS LLC	33434 FM 529	BROOKSHIRE
22	GR 310 LLC	2909 ROGERDALE RD #421249	HOUSTON

State	Zip Code
TX	77553
TX	77057-1302
TX	77025
TX	78163-2345
TX	77550
TX	77551
TX	77025
TX	78061
TX	77423
TX	77423
TX	77423
TX	77423
TX	77423
TX	77084
TX	77423
TX	77423
TX	77423
TX	77449
TX	77084
TX	77423
TX	77423
TX	77423
TX	77449
TX	77423
IN	46825
TX	77423
TX	77027
TX	77423
TX	77242

	BERRY INES R LIFE ESTATE 32910 MORRISON RD BROOKSHIRE TX 77423	SANCHEZ JOSE L MEZA 7911 MEADOWLARK ST BROOKSHIRE TX 77423
ANDRADE EDGAR & 7847 MEADOWLARK RD BROOKSHIRE TX 77423	GARCIA KEISHA A & JAIME 7800 MEADOWLARK ST BROOKSHIRE TX 77423	CLAVELLE WANDA JOY 7611 BOB WHITE ST BROOKSHIRE TX 77423
GUERRERO JESUS 2643 CYPRESS VINE DRIVE HOUSTON TX 77084	NITSCHKE RANDELL LEE & RUTH ELZIBETH 7403 FALCON DR BROOKSHIRE TX 77423	LORENZO ROBERT & YVONNE 7313 FALCON DR BROOKSHIRE TX 77423
BELL CHRISTOPHER I & LINDA J 7223 FALCON DR BROOKSHIRE TX 77423	AGUILAR RIGOBERTO 5522 PEEK ROAD KATY TX 77449	MEDINA GILBERTO 19728 SAUMS ROAD #169 HOUSTON TX 77084
CHAPMAN LISA 7203 FALCON DR BROOKSHIRE TX 77423	CONTRERAS RAFAEL JR & JULIE A 7123 FALCON DRIVE BROOKSHIRE TX 77423	MARTINEZ JULIO E & 7119 FALCON DRIVE BROOKSHIRE TX 77423
ESCOBAR FIDEL & MACEDO OLIVA 19910 MILLSTONE RIDGE LANE KATY TX 77449	SEAMENS ELSA T & MICHA W 7111 FALCON DR BROOSKHIRE TX 77423	COUNTRY METAL PROPERTIES LLC 2817 E DUPONT RD FORT WAYNE IN 46825
GAVRANOVIC FAMILY LMTD PTNSHP 32601 FM 529 BROOKSHIRE TX 77423	ROYAL WAILEA INVESTMENTS LP 2047 WESTCREEK LN SUITE 1303 HOUSTON TX 77027	TWIGGY HOLDINGS LLC 33434 FM 529 BROOKSHIRE TX 77423
GR 310 LLC 2909 ROGERDALE RD #421249 HOUSTON TX 77242	RAHLEK LTD PO BOX 2110 GALVESTON TX 77553	WATT VIRGINIA MEYERS SEALE 5755 INDIAN CIR HOUSTON TX 77057
MAHANA TERESA MOORE TRUST 3903 BELLAIRE BLVD HOUSTON TX 77025	MOORE ANDREA REVOCABLE TRUST 30871 SCHLATHER LN BULVERDE TX 78163	CAMPBELL JOHN H 2200 MARKET SUITE 804 GALVESTON TX 77550
CAMPBELL EUGENIA H 4520 CADUCEUS PL GALVESTON TX 77551	CAMPBELL DOUGLAS M 3627 GLEN HAVEN HOUSTON TX 77025	CAMPBELL ARCHIBALD R III PO BOX 986 PEARSALL TX 78061

**TCEQ DOMESTIC WASTEWATER PERMIT APPLICATION
FOR
CENTURY COMMUNITIES, INC.**

**WALLER COUNTY MUD NO. 46
WASTEWATER TREATMENT PLANT**

NEW TPDES PERMIT APPLICATION



Prepared By:



EHRA Engineering | 10011 Meadowglen Lane | Houston, Texas 77042 | t 713.784.4500
TCEQ No. F-726 | TCEQS No. 10092300

List of Attachments
New TPDES Permit Application
Waller County MUD No. 46
Wastewater Treatment Plant

List of Attachments

- Attachment 1 – Core Data Form
(Corresponds to Administrative Report 1.0, Section 3.C, Page 4 of 17)
- Attachment 2 – Plain Language Summary
(Corresponds to Administrative Report 1.0, Section 8.F, Page 7 of 17)
- Attachment 3 – Public Involvement Plan Worksheet
(Corresponds to Administrative Report 1.0, Section 8.G, Page 7 of 17)
- Attachment 4 – Discharge Authorization Letter
(Corresponds to Administrative Report 1.0, Section 10.C, Page 9 of 17)
- Attachment 5 – USGS Topographic Map (Hockley Mound)
(Corresponds to Administrative Report 1.0, Section 13, Page 10 of 17)
- Attachment 5A – USGS Topographic Map (Brookshire)
(Corresponds to Administrative Report 1.0, Section 13, Page 10 of 17)
- Attachment 6A – Affected Landowner Map
(Corresponds to Administrative Report 1.1, Section 1, Page 12 of 17)
- Attachment 6B – Affected Landowner List
(Corresponds to Administrative Report 1.1, Section 1, Page 12 of 17)
- Attachment 6C – Affected Landowner Mailing Labels
(Corresponds to Administrative Report 1.1, Section 1, Page 12 of 17)
- Attachment 7A – Original Photographs
(Corresponds to Administrative Report 1.1, Section 2, Page 13 of 17)
- Attachment 7B – Photograph Reference Map
(Corresponds to Administrative Report 1.1, Section 2, Page 13 of 17)
- Attachment 8 – Buffer Zone Map
(Corresponds to Administrative Report 1.1, Section 3, Page 13 of 17)
- Attachment 9 – Supplemental Permit Information Form
(Corresponds to Administrative Report 1.1, SPIF, Page 14 of 17)
- Attachment 10A – Process Flow Diagram—Phase I
(Corresponds to Technical Report 1.0, Section 2, Page 2 of 66)
- Attachment 10B – Process Flow Diagram—Phase II
(Corresponds to Technical Report 1.0, Section 2, Page 2 of 66)
- Attachment 10C – Process Flow Diagram—Ultimate Phase
(Corresponds to Technical Report 1.0, Section 2, Page 2 of 66)
- Attachment 11A – Site Layout
(Corresponds to Technical Report 1.0, Section 3, Page 3 of 66)
- Attachment 11B – Service Area Map
(Corresponds to Technical Report 1.0, Section 3, Page 3 of 66)
- Attachment 12A – List of WWTPs within 3 Mile Radius
(Corresponds to Technical Report 1.1, Section 1.B.3, Page 22 of 66)
- Attachment 12B – Map of WWTPs within 3 Mile Radius
(Corresponds to Technical Report 1.1, Section 1.B.3, Page 22 of 66)

Attachment 12C – Capacity Request Correspondence

(Corresponds to Technical Report 1.1, Section 1.B.3, Page 22 of 66)

Attachment 13 – Design Calculations

(Corresponds to Technical Report 1.1, Section 4, Page 22 of 66)

Attachment 14 – Wind Rose

(Corresponds to Technical Report 1.1, Section 5.B, Page 23 of 66)

Attachment 15 – Solids Management Plan

(Corresponds to Technical Report 1.1, Section 7, Page 23 of 66)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION
CHECKLIST**

Complete and submit this checklist with the application.

APPLICANT NAME: Century Communities

PERMIT NUMBER (If new, leave blank): WQ00 [Click to enter text.](#)

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

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

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input checked="" type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number: 58538
Check/Money Order Amount: \$1,650
Name Printed on Check: EHRA Engineering

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

a. Check the box next to the appropriate authorization type.

- ☒ Publicly-Owned Domestic Wastewater
☐ Privately-Owned Domestic Wastewater
☐ Conventional Wastewater Treatment

b. Check the box next to the appropriate facility status.

- ☐ Active ☒ Inactive

c. Check the box next to the appropriate permit type.

- ☒ TPDES Permit
- ☐ TLAP
- ☐ TPDES Permit with TLAP component
- ☐ Subsurface Area Drip Dispersal System (SADDs)

d. Check the box next to the appropriate application type

- ☒ New
- ☐ Major Amendment with Renewal
- ☐ Major Amendment without Renewal
- ☐ Renewal without changes
- ☐ Minor Amendment with Renewal
- ☐ Minor Amendment without Renewal
- ☐ Minor Modification of permit

e. For amendments or modifications, describe the proposed changes: Click to enter text.

f. For existing permits:

Permit Number: WQ00 Click to enter text.

EPA I.D. (TPDES only): TX Click to enter text.

Expiration Date: Click to enter text.

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

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

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

Century Communities, Inc.

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

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

CN: 605401645

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: Trapolino, Louis

Title: Vice President

Credential: Click to enter text.

B. Co-appllcant 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-appllcant applying for this permit?

Click to enter text.

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

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

C. Core Data Form

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

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: Lara, Valerie
Title: Assistant Project Manager Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713-784-4500 E-mail Address: vlara@ehra.team
Check one or both: ☒ Administrative Contact ☒ Technical Contact
- B. Prefix: Mr. Last Name, First Name: Anderson, Paul
Title: Practice Area Leader Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: 77042
Phone No.: 713-784-4500 E-mail Address: panderson@ehra.team
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: Ms. Last Name, First Name: Lara, Valerie
Title: Assistant Project Manager Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, Texas 77042
Phone No.: 713-784-4500 E-mail Address: vlara@ehra.team

B. Prefix: Mr. Last Name, First Name: Anderson, Paul
Title: Practice Area Leader Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, Texas 77042
Phone No.: 713-784-4500 E-mail Address: panderson@ehra.team

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: Trapolino, Louis
Title: Vice President Credential: Click to enter text.
Organization Name: Century Communities, Inc.
Mailing Address: 333 Cypress Run, Suite 200 City, State, Zip Code: Houston, TX 77094
Phone No.: (281) 698-9296 E-mail Address: Louis.Trapolino@centurycommunities.com

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: Trapolino, Louis
Title: Vice President Credential: Click to enter text.
Organization Name: Century Communities, Inc.
Mailing Address: 333 Cypress Run, Suite 200 City, State, Zip Code: Houston, TX 77094
Phone No.: (281) 698-9296 E-mail Address: Louis.Trapolino@centurycommunities.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Lara, Valerie
Title: Assistant Project Manager Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713-784-4500 E-mail Address: vlara@ehra.team

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms. Last Name, First Name: Lara, Valerie

Title: Assistant Project Manager Credential: P.E.

Organization Name: EHRA Engineering

Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042

Phone No.: 713-784-4500 E-mail Address: vlara@ehra.team

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Public building name: Waller County Library – Brookshire Pattison Library

Location within the building: Front Desk

Physical Address of Building: 3815 6th St

City: Brookshire County: Waller

Contact (Last Name, First Name): Fairchild, Lynda

Phone No.: 281-375-5550 Ext.: Click to enter text.

E. Bilingual Notice Requirements

This information is **required** for **new, major amendment, minor amendment or minor modification, and renewal** applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

☒ Yes ☐ No

If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

☒ Yes ☐ No

3. Do the students at these schools attend a bilingual education program at another location?

☐ Yes ☒ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?

☒ Yes ☐ No

5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

Attachment: Attachment 2

G. Public Involvement Plan Form

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a **new permit or major amendment to a permit** and include as an attachment.

Attachment: Attachment 3

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 29)

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

Search the TCEQ's Central Registry at <http://www15.tceq.texas.gov/crpub/> to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

Waller County MUD No. 46 Wastewater Treatment Plant

C. Owner of treatment facility: Century Communities, Inc.

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

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

Prefix: Mr.

Last Name, First Name: Trapolino, Louis

Title: Vice President

Credential: Click to enter text.

Organization Name: Century Communities, Inc.

Mailing Address: 333 Cypress Run, Suite 200 City, State, Zip Code: Houston, TX 77094

Phone No.: (281)698-9296

E-mail Address: Louis.Trapolino@centurycommunities.com

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: Click to enter text.

Last Name, First Name: NOT APPLICABLE

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.

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

Attachment: Click to enter text.

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

Prefix: Click to enter text.

Last Name, First Name: NOT APPLICABLE

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.

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

A. Is the wastewater treatment facility location in the existing permit accurate?

☐ Yes ☐ No

If **no, or a new permit application**, please give an accurate description:

The proposed wastewater treatment plant is located approximately 0.14 miles west-northwest of Falcon Drive and Farm to Market Road 529

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

☐ Yes ☐ No

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

The effluent will discharge from the WWTP via storm sewer; thence to an unnamed drainage ditch; thence to Brookshire Creek; thence to Bessie's Creek; thence to Brazos River Below Navasota River (Segment 1202)

City nearest the outfall(s): Brookshire

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

C. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☒ Yes ☐ No

If **yes**, indicate by a check mark if:

☐ Authorization granted ☒ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment: Attachment 4

- D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: N/A

Section 11. TLAP Disposal Information (Instructions Page 32)

- A. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☐ Yes ☐ No

If **no**, or a **new or amendment permit application**, provide an accurate description of the disposal site location:

N/A

- B. City nearest the disposal site: Click to enter text.

- C. County in which the disposal site is located: Click to enter text.

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

N/A

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

Section 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.

N/A

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

☒ Yes ☐ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☒ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary
- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: Attachment 1 - Core Data Form

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: New Permit

Applicant: Century Communities, Inc.

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): Louis Trapolino

Signatory title: Vice President of Land Acquisition and Development

Signature: _____

(Handwritten signature in blue ink)

Date: _____

3/26/24

(Use blue ink)

Subscribed and Sworn to before me by the said Louis Trapolino

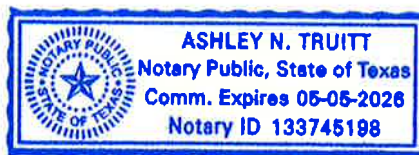
on this 26th day of March, 20 24.

My commission expires on the 5th day of May, 20 26.

(Handwritten signature)
Notary Public

Harris

County, Texas



[SEAL]

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

- ☒ The applicant's property boundaries
- ☒ The facility site boundaries within the applicant's property boundaries
- ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☒ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☐ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

- ☒ USB Drive ☒ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Waller County Appraisal District

E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

- ☐ Yes ☒ No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

- ☒ At least one original photograph of the new or expanded treatment unit location
- ☒ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- ☐ At least one photograph of the existing/proposed effluent disposal site
- ☒ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.

- The applicant's property boundary;
- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.

B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.

- ☒ Ownership
- ☒ Restrictive easement
- ☒ Nuisance odor control
- ☒ Variance

C. Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?

- ☒ Yes ☐ No

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: 9

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP Waste Permit No: TBD

1. Check or Money Order Number: 58538
2. Check or Money Order Amount: \$1,650
3. Date of Check or Money Order: 05/06/2024
4. Name on Check or Money Order: EHRA Engineering

5. APPLICATION INFORMATION

Name of Project or Site: Waller County MUD No. 46 Wastewater Treatment Plant

Physical Address of Project or Site: Approximately 0.14 miles west-northwest of the intersection of Falcon Drive and Farm to Market Road 529.

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

Staple Check or Money Order in This Space

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): [Click to enter text.](#)

Full legal name (Last Name, First Name, Middle Initial): [Click to enter text.](#)

Driver's License or State Identification Number: [Click to enter text.](#)

Date of Birth: [Click to enter text.](#)

Mailing Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#) Fax Number: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

CN: [Click to enter text.](#)

For Commission Use Only:

Customer Number:

Regulated Entity Number:

Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

7.5 Minute USGS Quadrangle Topographic Map Attached ☒ Yes
(Full-size map if seeking "New" permit.
8 ½ x 11 acceptable for Renewals and Amendments)

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes



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): 0.18

2-Hr Peak Flow (MGD): 0.72

Estimated construction start date: July 2025

Estimated waste disposal start date: August 2026

B. Interim II Phase

Design Flow (MGD): 0.36

2-Hr Peak Flow (MGD): 1.44

Estimated construction start date: September 2026

Estimated waste disposal start date: October 2027

C. Final Phase

Design Flow (MGD): 0.72

2-Hr Peak Flow (MGD): 2.88

Estimated construction start date: November 2027

Estimated waste disposal start date: December 2028

D. Current Operating Phase

Provide the startup date of the facility: Not yet constructed

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.**

The WWTP will consist of three phases: All three will be complete mix-activated sludge with nitrification. Phase 1: Treatment units include one (1) on-site lift station, a bar screen, one aeration basin, one final clarifier, one chlorine contact basin, and two aerobic digesters. Phase 2: Treatment units include one elevated headworks with a drum screen, two (2) aeration basins, two (2) final clarifiers, two (2) chlorine contact basins, and four (4) aerobic digesters. Ultimate Phase: Treatment units include four (4) aeration basins, four (4) final clarifiers, four (4) chlorine contact basins, and eight (8) aerobic digesters.

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 Basin(s)	Phase One - 1 Phase Two - 2 Ultimate Phase - 4	20-ft x 34-ft x 18-ft SWD, each
Clarifier(s)	Phase One - 1 Phase Two - 2 Ultimate Phase - 4	34-ft DIA x 16-ft SWD, each
Chlorine Contact Basin(s)	Phase One - 1 Phase Two - 2 Ultimate Phase - 4	3-ft x 34-ft x 17-ft SWD, each
Aerobic Digester(s)	Phase One - 2 Phase Two - 4 Ultimate Phase - 8	15-ft x 16.25-ft x 18-ft SWD, each

C. Process Flow Diagram

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

Attachment: 10A, 10B, and 10C

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

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

- Latitude: 29.8748
- Longitude: -95.9408

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

- Latitude: N/A
- 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.

Attachment: 11A

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

Waller County MUD No. 46 Wastewater Treatment Facility will serve a residential development (±318.1 acres) within Waller County. The residential development will ultimately have 2,400 equivalent single-family connections.

Collection System Information for wastewater TPDES permits only: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Waller County MUD No. 46 Collection System	Century Communities, Inc.	Publicly Owned	7,200
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

Is the application for a renewal of a permit that contains an unbuilt phase or phases?

☐ Yes ☒ No

If **yes**, does the existing permit contain a phase that has not been constructed **within five years** of being authorized by the TCEQ?

☒ Yes ☐ No

If **yes**, provide a detailed discussion regarding the continued need for the unbuilt phase. **Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases.**

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

If yes, was a closure plan submitted to the TCEQ?

☐ Yes ☐ No

If yes, provide a brief description of the closure and the date of plan approval.

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☐ Yes ☒ No

If yes, provide the date(s) of approval for each phase: Click to enter text.

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable.**

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

The Buffer Zone requirements are met through ownership and restrictive easements.

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☐ Yes ☒ No

If yes, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

N/A

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment

works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

Click to enter text.

3. *Grit disposal*

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☐ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

Click to enter text.

E. Stormwater management

1. *Applicability*

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☐ Yes ☒ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☐ Yes ☒ No

If no to both of the above, then skip to Subsection F, Other Wastes Received.

2. *MSGP coverage*

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☐ Yes ☐ No

If **yes**, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 [Click to enter text.](#) or TXRNE [Click to enter text.](#)

If **no**, do you intend to seek coverage under TXR050000?

☐ Yes ☐ No

3. *Conditional exclusion*

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☐ No

If **yes**, please explain below then proceed to Subsection F, Other Wastes Received:

[Click to enter text.](#)

4. *Existing coverage in individual permit*

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

☐ Yes ☐ No

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

[Click to enter text.](#)

5. *Zero stormwater discharge*

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

☐ Yes ☐ No

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

[Click to enter text.](#)

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal

located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. Request for coverage in individual permit

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☒ No

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

[Click to enter text.](#)

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. 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.

[Click to enter text.](#)

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

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

Click to enter text.

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

3. *Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)*

Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?

☐ Yes ☒ No

If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

Is the facility in operation?

☐ Yes ☒ No

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

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

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

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, μ mohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

*TPDES permits only

†TLAP permits only

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: TBD

Facility Operator's License Classification and Level: Click to enter text.

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

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☒ Design flow \geq 1 MGD
- ☒ Serves \geq 10,000 people
- ☒ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☒ Biosolids generator
- ☒ Biosolids end user - land application (onsite)
- ☒ Biosolids end user - surface disposal (onsite)
- ☒ Biosolids end user - incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check 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: Transport to another treatment plant for further processing.

C. Biosolids Management

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 Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	Off-site Third-Party Handler or Preparer	Not Applicable		Class B: PSRP Aerobic Digestion	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 treatment plant for further processing.

D. Disposal site

Disposal site name: TBD

TCEQ permit or registration number: Click to enter text.

County where disposal site is located: Click to enter text.

E. Transportation method

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

Name of the hauler: To Be Determined

Hauler registration number: Click to enter text.

Sludge is transported as a:

Liquid ☐ semi-liquid ☒ semi-solid ☒ solid ☐

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

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☐ No

If yes, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Marketing and Distribution of sludge	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Sludge Surface Disposal or Sludge Monofill	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Temporary storage in sludge lagoons	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

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

- Original General Highway (County) Map:
Attachment: [Click to enter text.](#)
- USDA Natural Resources Conservation Service Soil Map:
Attachment: [Click to enter text.](#)
- Federal Emergency Management Map:
Attachment: [Click to enter text.](#)
- Site map:
Attachment: [Click to enter text.](#)

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: [Click to enter text.](#)

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

[Click to enter text.](#)

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: [Click to enter text.](#)

Total Kjeldahl Nitrogen, mg/kg: [Click to enter text.](#)

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

Phosphorus, mg/kg: [Click to enter text.](#)

Potassium, mg/kg: [Click to enter text.](#)

pH, standard units: [Click to enter text.](#)

Ammonia Nitrogen mg/kg: [Click to enter text.](#)

Arsenic: [Click to enter text.](#)

Cadmium: [Click to enter text.](#)

Chromium: [Click to enter text.](#)

Copper: [Click to enter text.](#)

Lead: [Click to enter text.](#)

Mercury: [Click to enter text.](#)

Molybdenum: [Click to enter text.](#)

Nickel: [Click to enter text.](#)

Selenium: [Click to enter text.](#)

Zinc: [Click to enter text.](#)

Total PCBs: [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 1×10^{-7} cm/sec?

☐ Yes ☐ No

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

[Click to enter text.](#)

D. Site development plan

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

[Click to enter text.](#)

Attach 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. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☒ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: [Click to enter text.](#)

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If yes, provide the TCEQ authorization number and description of the authorization:

[Click to enter text.](#)

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☒ Yes ☒ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☐ Yes ☒ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

[Click to enter text.](#)

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: [Click to enter text.](#)

Section 14. Laboratory Accreditation (Instructions Page 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:
 - periodically inspected by the TCEQ; or
 - located in another state and is accredited or inspected by that state; or
 - performing work for another company with a unit located in the same site; or
 - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

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

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

CERTIFICATION:

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

Printed Name: [Click to enter text.](#)

Title: [Click 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.

Waller County MUD No. 46 Wastewater Treatment Plant will treat domestic wastes from a planned ±318.1-acre residential community that does not currently have access to wastewater treatment. No surrounding facilities are large enough or have plans for expansions that would accommodate the proposed community.

B. Regionalization of facilities

For additional guidance, please review [TCEQ's Regionalization Policy for Wastewater Treatment](#)¹.

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

¹ <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: [12A & 12B](#)

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: [12C](#)

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: [Click to enter text.](#)

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 BOD₅ Concentration in mg/l: [Click to enter text.](#)

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): [Click to enter text.](#)

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

[Click to enter text.](#)

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision	0.720	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	0.720	
AVERAGE BOD ₅ from all sources		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: 7

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 7

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: [Click to enter text.](#)

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 7

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: [Click to enter text.](#)

D. Disinfection Method

Identify the proposed method of disinfection.

☒ 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: [Click to enter text.](#)

Section 4. Design Calculations (Instructions Page 59)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: 13

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☒ Yes ☐ No

If **no**, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

[Click to enter text.](#)

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

FEMA FIRM Panel:48473Co350E

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☒ No

If **yes**, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If **yes**, provide the permit number: [Click to enter text.](#)

If **no**, provide the approximate date you anticipate submitting your application to the Corps: [Click to enter text.](#)

B. Wind rose

Attach a wind rose: [Attachment 14](#)

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☒ No

If **yes**, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: [Click to enter text.](#)

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

- ☐ Sludge Composting
- ☐ Marketing and Distribution of sludge
- ☐ Sludge Surface Disposal or Sludge Monofill

If **any of the above**, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: [Click to enter text.](#)

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: [15](#)

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 **no**, proceed to Section 2. If **yes**, 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 **no**, proceed to Section 3. If **yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: [Click to enter text.](#)

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☒ No

If **yes**, provide the distance and direction from outfall(s).

[Click to enter text.](#)

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?

☐ Yes ☒ No

If **yes**, this Worksheet is complete.

If **no**, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: Unnamed Tributary

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

Average depth of the entire water body, in feet: Click to enter text.

Average depth of water body within a 500-foot radius of discharge point, in feet:
Click to enter text.

☒ 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).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

[Click to enter text.](#)

D. Downstream characteristics

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

☒ Yes ☐ No

If yes, discuss how.

The receiving water at the outfall is turbid with a milky color. The water then turns to turbid brown to clear with algae at 0.4 miles downstream.

E. Normal dry weather characteristics

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

The unnamed tributary was drainage ditch is upkept with grass vegetation. The unnamed tributary contained traces of a wrack line, crawdad holes, apple snail shells, some algae, partly dry patches, no flow, and signs of silting.

Date and time of observation: 2/29/2024; 2:00 PM

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

A. Upstream influences

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

☐ Oil field activities

☐ Urban runoff

☒ Upstream discharges

☒ Agricultural runoff

☐ Septic tanks

☒ Other(s), specify: [Click to enter text.](#)

B. Waterbody uses

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

- | | |
|--|--|
| <input type="checkbox"/> Livestock watering | <input type="checkbox"/> Contact recreation |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Navigation |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply |
| <input type="checkbox"/> Park activities | <input checked="" type="checkbox"/> Other(s), specify: <u>Drainage Ditch</u> |

C. Waterbody aesthetics

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

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

DOMESTIC 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: 2/29/2024 Time of study: 2:00 P.M.

Stream name: Drainage Ditch

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: 0

Number of stream bends that are moderately defined: 0

Number of stream bends that are poorly defined: 0

Number of riffles: 0

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.

Evidence of flow fluctuation included wrack line, culvert, wetland plants, silting observed by mound piles, and crawfish holes.

Stream transects

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

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	Transect location	Water surface width (ft)	Stream depths (ft) at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
pool	29.8749, -95.9408	8.1	0.40, 0.75, 0.60, 0.30
pool	29.8745, -95.9407	8.8	0.20, 0.35, 1.5, 0.30
pool	29.8731, -95.9407	5.8	0.45, 0.75, 0.70, 0.55
pool	29.8731, -95.9407	4.5	0.05, 0.35, 0.30, 0.15
pool	29.8703, -95.9407	5.5	0.25, 0.15, 0.10, 0.05
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: 0.0006

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): 5.3

Length of stream evaluated, in feet: 2,376

Number of lateral transects made: 5

Average stream width, in feet: 6.54

Average stream depth, in feet: 0.41

Average stream velocity, in feet/second: 0

Instantaneous stream flow, in cubic feet/second: 0

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

Size of pools (large, small, moderate, none): Moderate

Maximum pool depth, in feet: 1.5

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

B. Treatment plant interference

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

☐ Yes ☒ No

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

Click to enter text.

C. Treatment plant pass through

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

☐ Yes ☒ No

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

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

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

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

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

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

E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: Attachment 11B

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☐ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: [Click to enter text.](#)

SIC Code: [Click to enter text.](#)

Contact name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Telephone number: [Click to enter text.](#)

Email address: [Click to enter text.](#)

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

[Click to enter text.](#)

C. Product and service information

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

[Click to enter text.](#)

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: [Click to enter text.](#)

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: [Click to enter text.](#)

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: [Click to enter text.](#)

[Click or tap here to enter text.](#) [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

[Click to enter text.](#)

Attachment 1 – Core Data Form
(Corresponds to Administrative Report 1.0, Section 3.C, Page 4 of 17)



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 605401645		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Century Communities, Inc.					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID	10. DUNS Number (if applicable)
0801802740		32051270752		(9 digits)	
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:					
333 Cypress Run, Suite 200					
City	Houston	State	TX	ZIP	77094
ZIP + 4					
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				Louis.Trapolino@centurycommunities.com	

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
(281) 698-6296		() -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Waller County MUD No. 46 Wastewater Treatment Plant								
23. Street Address of the Regulated Entity: (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
24. County	Waller							

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

25. Description to Physical Location:	Approximately 0.14 miles West Northwest of Falcon Dr and Farm to Market Road 529							
26. Nearest City	State				Nearest ZIP Code			
Brookshire	TX				77423			
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>								
27. Latitude (N) In Decimal:		29.8745		28. Longitude (W) In Decimal:		-95.9415		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29	52	28.20	-95	56	29.28			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
4952			221320					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Wastewater Treatment								
34. Mailing Address:								
	333 Cypress Run, Suite 200							
	City	Houston	State	TX	ZIP	77094	ZIP + 4	
35. E-Mail Address:	Louis.Trapolino@centurycommunities.com							
36. Telephone Number	37. Extension or Code		38. Fax Number (if applicable)					
(281) 698-6296			() -					

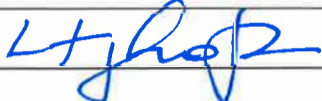
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Valerie Lara		41. Title:	Assistant Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(713) 784-4500		() -	vlara@ehra.team	

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Century Communities, Inc.		Job Title:	Vice President of Land Acquisition and Development
Name (In Print):	Louis Trapolino		Phone:	(281) 698- 6296
Signature:			Date:	3/26/24

Attachment 2 – Plain Language Summary
(Corresponds to Administrative Report 1.0, Section 8.F, Page 7 of 17)

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

Century Communities, Inc. (CN 605401645) proposes to operate Waller County Municipal Utility District No. 46, (RN111996773. a wastewater treatment plant that shall consist of one (1) elevated headworks platform, four (4) aeration basins, four (4) final clarifiers, eight (8) aerobic digesters, and four (4) chlorine contact basins. The facility will be located approximately 0.14 miles west-northwest of Falcon Drive and Farm to Market Road 529, near Brookshire, Waller County, Texas 77423.

This application is for a new application to discharge at a daily average flow of 720,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain 7 milligrams per liter (mg/L) of CBOD5, 15 mg/L TSS, 2 mg/L NH3-N, and 1-4 mg/L chlorine. Domestic wastewater will be treated by an activated sludge wastewater treatment plant operated in the complete mix mode with nitrification.

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

AGUAS RESIDUALES DOMÉSTICAS

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

Century Communities, Inc. (CN605401645) propuesta operar la Planta de Tratamiento de Aguas Residuales del Distrito de Servicios Públicos Municipales del Condado Waller No. 46 (RN111996773). La instalación va a hacer una planta de concreto que va a consistir de una (1) pantalla de barra manual, cuatro (4) tanques de aeración, cuatro (4) clarificadores finales, ocho (8) digestores aeróbicos, y cuatro (4) tanques de contacto de cloro. La facilidad va a estar ubicada aproximadamente 0.14 millas Este Noreste de la intersección de Falcon Drive y Farm to Market Road 529, cerca de Brookshire, Waller County, Texas 77583.

Esta solicitud es para una nueva Sistema de Eliminación de Vertidos Contaminantes de Texas (TPDES) permiso para la descarga de aguas residuales tratadas a un volumen de promedio diario de 720,000 galones por día.

Se espera que las descargas de la instalación contengan una demanda bioquímica de oxígeno de cinco días (CBOD5) de 7 miligramos por litro (mg/L), sólidos suspendidos totales (SST) de 15 mg/L, nitrógeno amoniacal (NH3-N) de 2 mg/L, y Escherichia coli (E. coli). Las aguas residuales domésticas serán tratadas por una planta de proceso de lodos activados operada en modo de mezcla completa.

Attachment 3 – Public Involvement Plan Worksheet
(Corresponds to Administrative Report 1.0, Section 8.G, Page 7 of 17)



Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

- ☒ New Permit or Registration Application
☐ New Activity - modification, registration, amendment, facility, etc. (see instructions)

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

Section 2. Secondary Screening

- ☒ Requires public notice,
☐ Considered to have significant public interest, **and**
☐ Located within any of the following geographical locations:

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

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

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

A new WWTP is being built to serve a new development. The proposed WWTP is not listed in any of the geographical locations listed and nearby WWTP applications have not had significant public interest.

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

Amendment to an Existing Water Right

- ☐ Add a New Appropriation of Water
- ☐ Add a New or Existing Reservoir
- ☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

(City)

(County)

(Census Tract)

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

☐

City

☐

County

☐

Census Tract

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

(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

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(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) Hard copies of the application will be available at the following (check all that apply):

- ☐ TCEQ Regional Office ☐ TCEQ Central Office
- ☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

- ☐ Publish in alternative language newspaper
- ☐ Posted on Commissioner's Integrated Database Website
- ☐ Mailed by TCEQ's Office of the Chief Clerk
- ☐ Other (specify)

Attachment 4 – Discharge Authorization Letter
(Corresponds to Administrative Report 1.0, Section 10.C, Page 9 of 17)



TBPE No. F-726
TBPLS No. 10092300

June 13, 2024

Via Certified Mail
Article No. 9489 0090 0027 6550 9299 27

Mr. Michael McCarthy
Brookshire-Katy Drainage District
Quiddity Engineering
2322 West Grand Parkway North, Suite 150
Katy, Texas 77449

Re: Treated Effluent Discharge Request
Century Communities, Inc.
Waller County MUD No. 46 Wastewater Treatment Plant

Dear Mr. McCarthy:

Edminster, Hinshaw, Russ & Associates, Inc. d/b/a EHRA is requesting, on behalf of Century Communities, Inc., authorization to discharge treated effluent flow of 0.72 million gallons per day (mgd) into Brookshire-Katy Drainage District (BKDD) Ditch, thence Brookshire Creek.

The proposed Wastewater Treatment Plant will have three phases designed with the ultimate design having an average daily flow of 0.72 mgd. This plant will serve a single-family residential subdivision. The plant will be located approximately 0.14 miles west-northwest of the intersection of Falcon Dr and Farm to Market Road No. 529 in Waller County, Texas.

Enclosed is the Brookshire-Katy Drainage District Permit Application with a map showing the location of the plant site and the proposed discharge route.

Should you have any questions, or require additional information, please contact me at 713-784-4500.
Thank you for your assistance in this matter.

Sincerely,

Krystal Regner, P.E.
Project Manager

Attachment

cc: Paul Anderson, P.E. – Firm
Valerie Lara, P.E. – Firm
Cam Jackson, P.E. – Firm
Francisco Arias, E.I.T. – Firm

Brookshire-Katy Drainage District

Permit Application Form

For District Use Only

Permit No.: _____

Date Received: _____

Amount Received: _____

Owner: Century Communities, Inc.

Contact Name: Louis Trapolino

Address: 333 Cypress Run, Suite 200

City: Houston State: TX Zip Code: 77094

Phone Number: (281) 698-6296 Email: Louis.Trapolino@centurycommunities.com

Applicant: EHRA Engineering

Contact Name: Krystal Regner, P.E.

Address: 10011 Meadowglen Lane

City: Houston State: TX Zip Code: 77042

Phone Number: 713-784-4500 Email: kregner@ehra.team

Permit Type: (Check One & Complete Back)

<input type="checkbox"/> Utility Crossing	<input type="checkbox"/> Public Road Crossing
<input type="checkbox"/> Private Road Crossing	<input checked="" type="checkbox"/> Drainage Connection without Land Use Change
<input type="checkbox"/> Tract Development without Platting	<input type="checkbox"/> Tract Development with Platting

Project Name: Waller County Municipal Utility District No. 46 Wastewater Treatment Plant

Project Address: Approximately 0.14 miles west-northwest of Falcon Drive and Farm to Market Road 529 Waller County, TX

Receiving Stream/Channel Designation: Brookshire-Katy Drainage District ditch; thence to a Brookshire Creek

Survey: _____ Abstract No. _____ County: Waller County

Proposed Permit Activity: Discharge treated effluent flow of 0.72 MGD from proposed Wastewater Treatment Plant to a Brookshire-Katy Drainage District ditch; thence to Brookshire Creek.

Comments: _____

Submitted By: Krystal Regner, P.E.

Signature: *Krystal Regner*

Date: 06/13/2024

For District Use Only

District Action: ☐ Approve ☐ Deny

District Engineer

Date

Brookshire-Katy Drainage District

Date

Permit Conditions: _____

Utility Crossing

Utility Type: _____ Material Carried: _____
Casing Size: _____ Carrier Size: _____ Operation Pressure: _____
Carrier Pipe Well Thickness: _____ Joint Type: _____
Method of Construction: ☐ Bore ☐ Open Cut
Funding Type: ☐ Bond ☐ Cash ☐ Letter or Credit Amount: _____

Road Crossing

☐ Public ☐ Private
Culvert Material: _____ Culvert Size: _____ Number of Culverts: _____

Drainage Connection without Land Use Change

Culvert Material: Reinforced Concrete Pipe Culvert Size: 24" Number of Culverts: 1

Tract Development

☐ Preliminary Plat ☐ Final Plat ☐ No Plat Required
Site Area: _____ (acres) Detention Volume Provided: _____ (acre-feet)
Detention Volume Ratio: _____ (acre-feet/acre)

Fill

Total Site Area: _____ (acres) Total Fill Volume _____ (cubic yards)
Location of Origin of Fill Material: _____
Is Fill Material from a Governmental Project? ☐ Yes ☐ No
Name of Fill Material Hauler: _____ Phone No. _____
Total Excavated Volume: _____ (cubic yards) Is Excavated Material To Be Used on Site?: ☐ Yes ☐ No
Is Drainage/Mitigation Plan Attached?: ☐ Yes ☐ No Is Adjacent Landowner Consent Attached?: ☐ Yes ☐ No

Brookshire-Katy Drainage District

Fee Schedule Worksheet

For District Use Only

Permit No. _____

Date Received: _____

Fee Amount Received: _____

Project Name: Waller County Municipal Utility District No. 46 Wastewater Treatment Plant

Project Address: Approximately 0.14 miles west-northwest of Falcon Drive and Farm to Market Road 529 in Waller County, TX

<u>Permit Type</u>	<u>Fee</u>	<u>Amount Paid</u>
Utility Crossing		
<input type="checkbox"/> Permit Application Fee	\$500.00	_____
Road Crossing Public or Private		
<input type="checkbox"/> Permit Application Fee	\$250.00	_____
Drainage Connection without Land Use Change		
<input checked="" type="checkbox"/> Permit Application Fee	\$50.00	<u>\$50.00</u>
Tract Development without Platting		
<input type="checkbox"/> Initial Permit Application Fee (2 reviews)	\$400.00	_____
<input type="checkbox"/> Additional Review Fee (per review)	\$250.00	_____
Inspection Fee: _____ (Drainage Construction Cost)		
<input type="checkbox"/> Drainage construction cost < \$10,000	\$250.00	_____
<input type="checkbox"/> Drainage construction cost ≥ \$10,000 but < \$50,000 fee is 1.0% of drainage construction cost but not less than \$250.00	Varies	_____
<input type="checkbox"/> Drainage construction cost ≥ \$50,000 fee is 0.50% of drainage construction cost but not less than \$500.00	Varies	_____
Tract Development with Platting Preliminary Plat		
<input type="checkbox"/> Initial Permit Application Preliminary Plat Base Fee (2 reviews)	\$300.00	_____
<input type="checkbox"/> Additional Preliminary Plat Review (per review)	\$250.00	_____
<input type="checkbox"/> _____ lots at \$1.00 per lot (initial review only)	Varies	_____
<input type="checkbox"/> _____ acres in reserve at \$5.00 per acre (initial review only)	Varies	_____

Brookshire-Katy Drainage District
Fee Schedule Worksheet

Tract Development with Platting Final Plat

- | | | |
|---|----------|-------|
| <input type="checkbox"/> Initial Permit Application Final Plat Base Fee (2 reviews) | \$400.00 | _____ |
| <input type="checkbox"/> Additional Final Plat Review (per review) | \$250.00 | _____ |
| <input type="checkbox"/> _____ lots at \$2.00 per lot (initial review only) | Varies | _____ |
| <input type="checkbox"/> _____ acres in reserve at \$10.00 per acre (initial review only) | Varies | _____ |

Inspection Fee: _____

(Drainage Construction Cost)

- | | | |
|--|----------|-------|
| <input type="checkbox"/> Drainage construction cost < \$10,000 | \$250.00 | _____ |
| <input type="checkbox"/> Drainage construction cost ≥ \$10,000 but < \$50,000
fee is 1.0% of drainage construction cost but not less
than \$250.00 | Varies | _____ |
| <input type="checkbox"/> Drainage construction cost ≥ \$50,000 fee is 0.50%
of drainage construction cost but not less than \$500.00 | Varies | _____ |

Master Drainage Plan Review

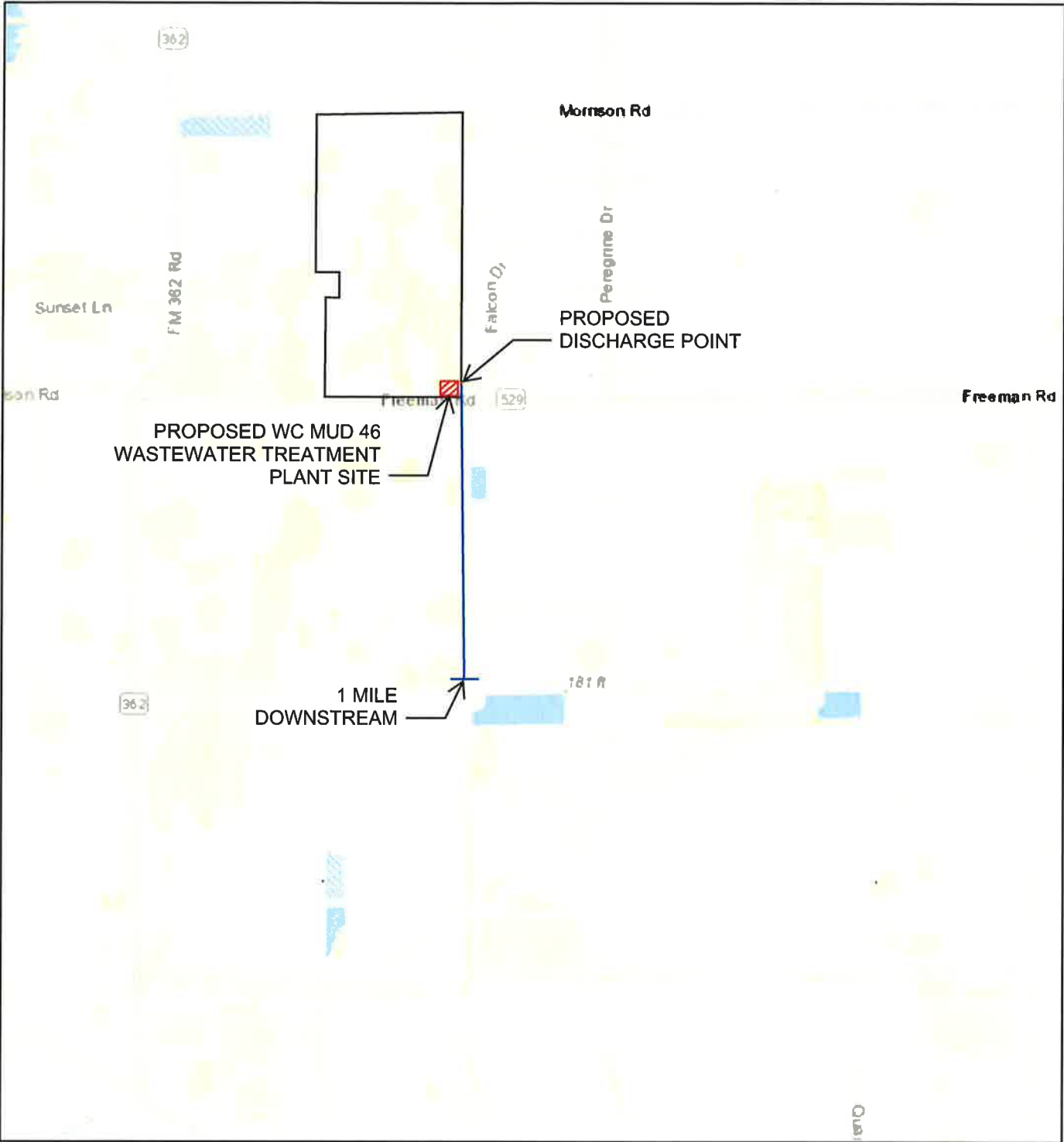
- | | | |
|--|------------|-------|
| <input type="checkbox"/> Initial Master Drainage Plan Review Fee (2 reviews) | \$2,500.00 | _____ |
| <input type="checkbox"/> Additional Master Drainage Plan Review Fee (per review) | \$500.00 | _____ |
| <input type="checkbox"/> Master Drainage Plan Amendment Review Fee | \$1,000.00 | _____ |

Total Fees Submitted \$50.00 _____

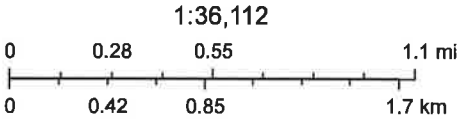
Prepared By:

Company:	<u>EHRA Engineering</u>		
Contact Name:	<u>Krystal Regner, P.E.</u>		
Address:	<u>10011 Meadowglen Lane</u>		
City:	<u>Houston</u>	State: <u>TX</u>	Zip Code: <u>77042</u>
Phone Number:	<u>713-784-4500</u>	Email:	<u>kregner@ehra.team</u>

PROPOSED WASTEWATER TREATMENT PLANT SITE



6/13/2024, 10:20:17 AM



City of Houston, HPB, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, TCEQ

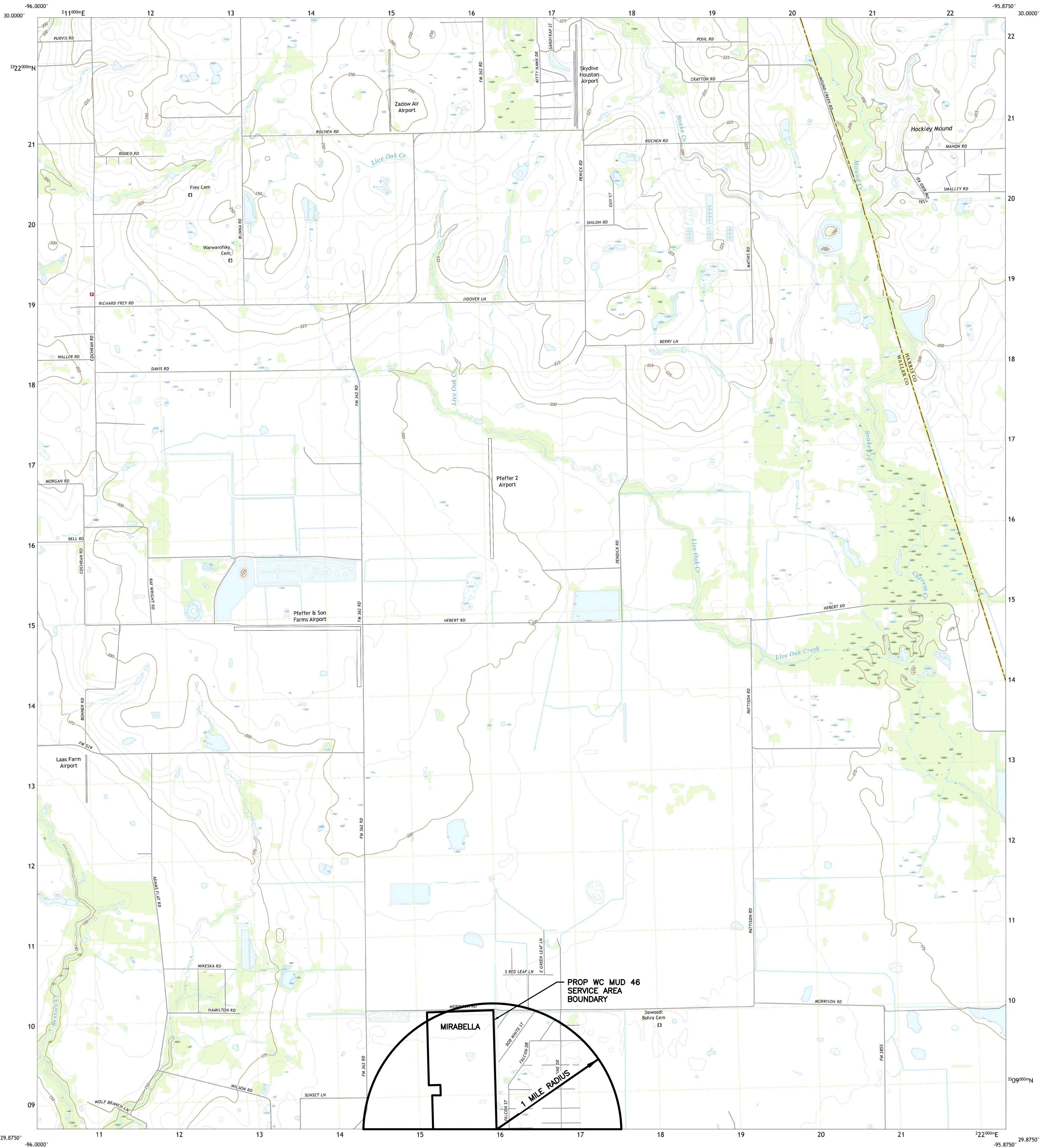
Attachment 5A – USGS Topographic Map (Hockley Mound)
(Corresponds to Administrative Report 1.0, Section 13, Page 10 of 17)



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

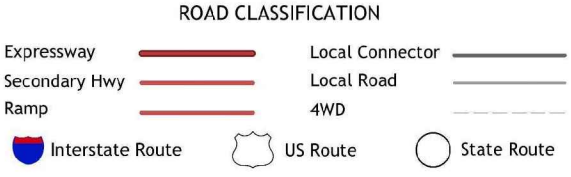
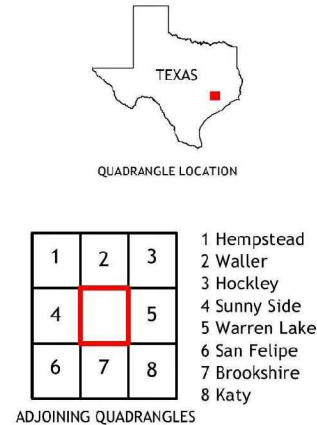
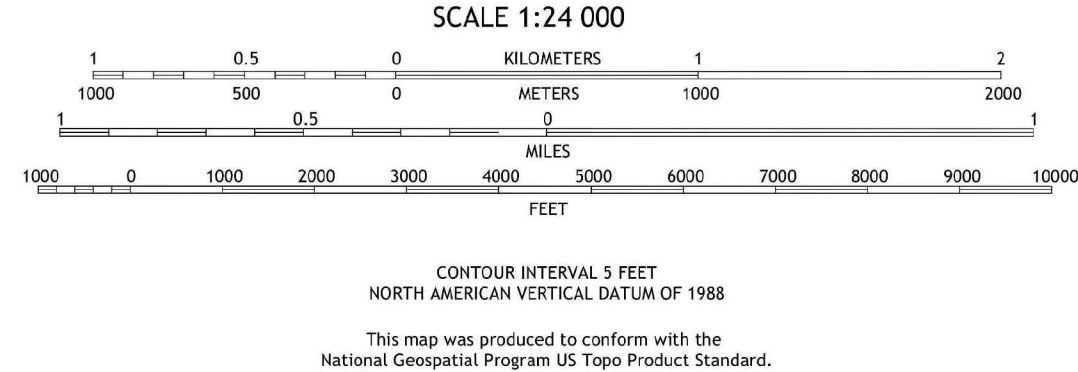
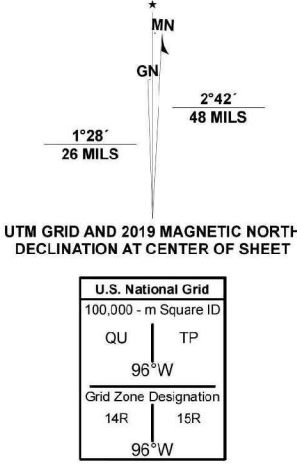


HOCKLEY MOUND QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83), Projection and
1000-meter grid Universal Transverse Mercator, Zone 14R15R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015
Names.....GHS, 1979
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2010
Boundaries.....Multiple sources, see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



HOCKLEY MOUND, TX
2022

EHRA 10011 Meadowglen Lane
Houston, Texas 77042
EHRAInc.com | 713.784.4500
TBP# No. F-726 | TBPLS No. 10092300
ENGINEERING THE FUTURE
SINCE 1936

**WALLER COUNTY MUD NO 46
WWTP NEW TPDES PERMIT**

ATTACHMENT 5A
USGS HOCKLEY MOUND QUAD

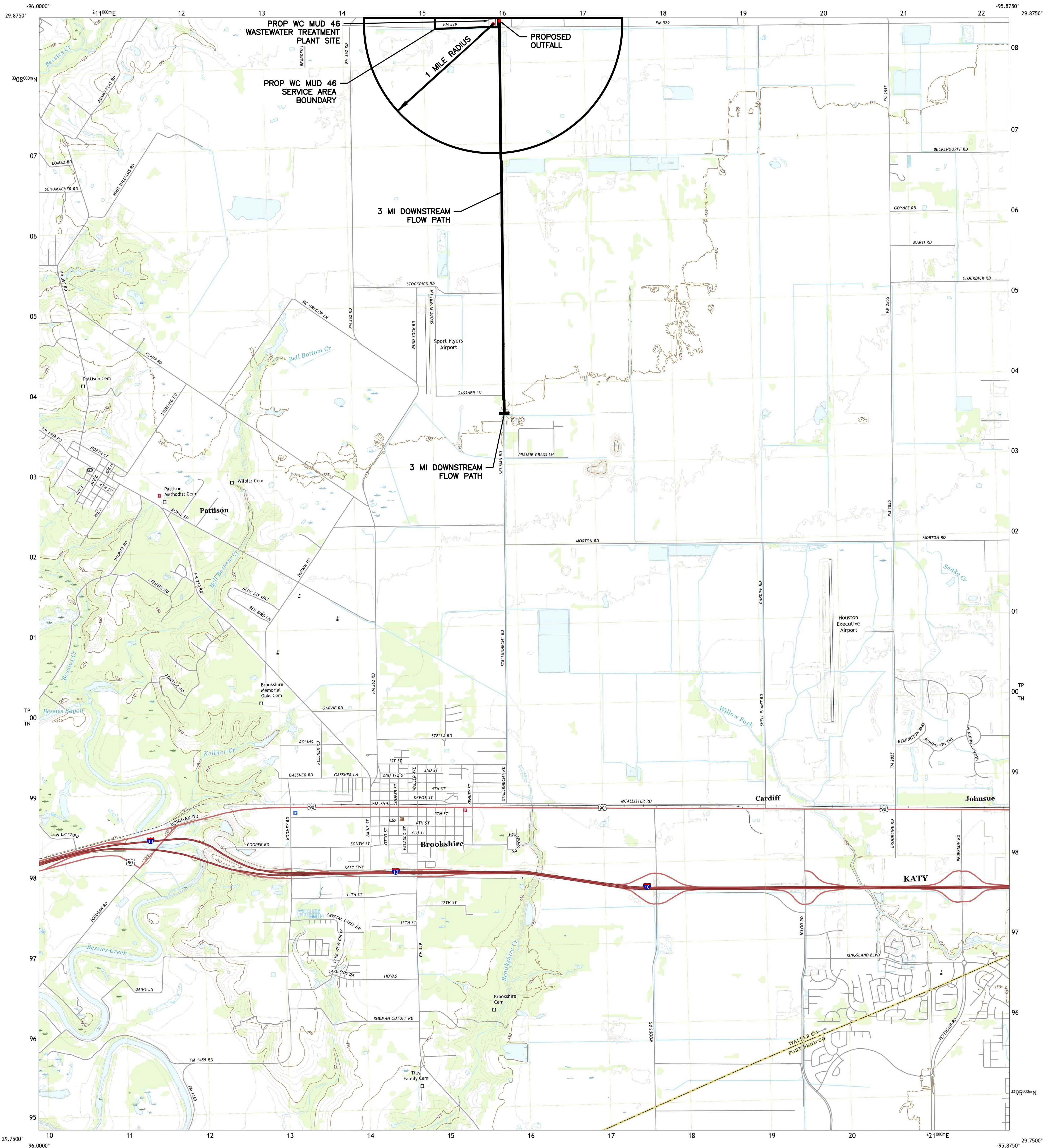
Attachment 5B – USGS Topographic Map (Brookshire)
(Corresponds to Administrative Report 1.0, Section 13, Page 10 of 17)



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

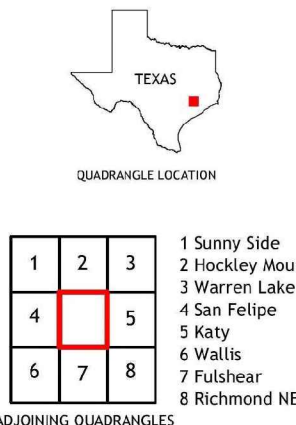
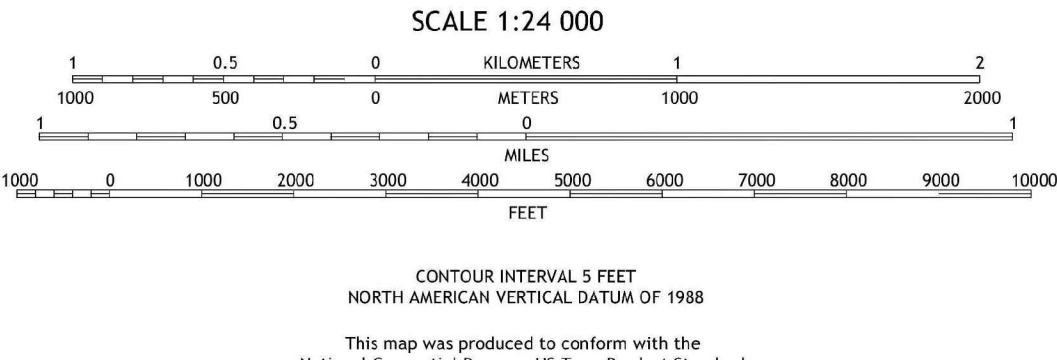
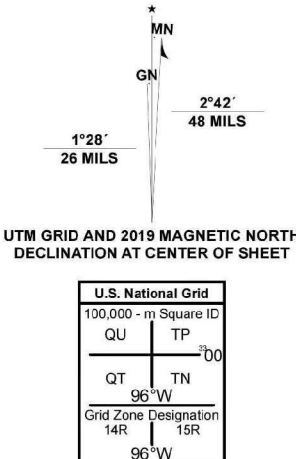


BROOKSHIRE QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84)
Projection and 1 000-meter grid/Universal Transverse Mercator, Zone 14R15R
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	U.S. NAIP, September 2016 - November 2016
Roads	U.S. Census Bureau, 2015
Names	U.S. Census Bureau, 2015
Hydrography	National Hydrography Dataset, 2002 - 2018
Contours	National Elevation Dataset, 2010
Boundaries	Multiple sources; see metadata file 2019 - 2021
Wetlands	FWS National Wetlands Inventory Not Available



BROOKSHIRE, TX
2022

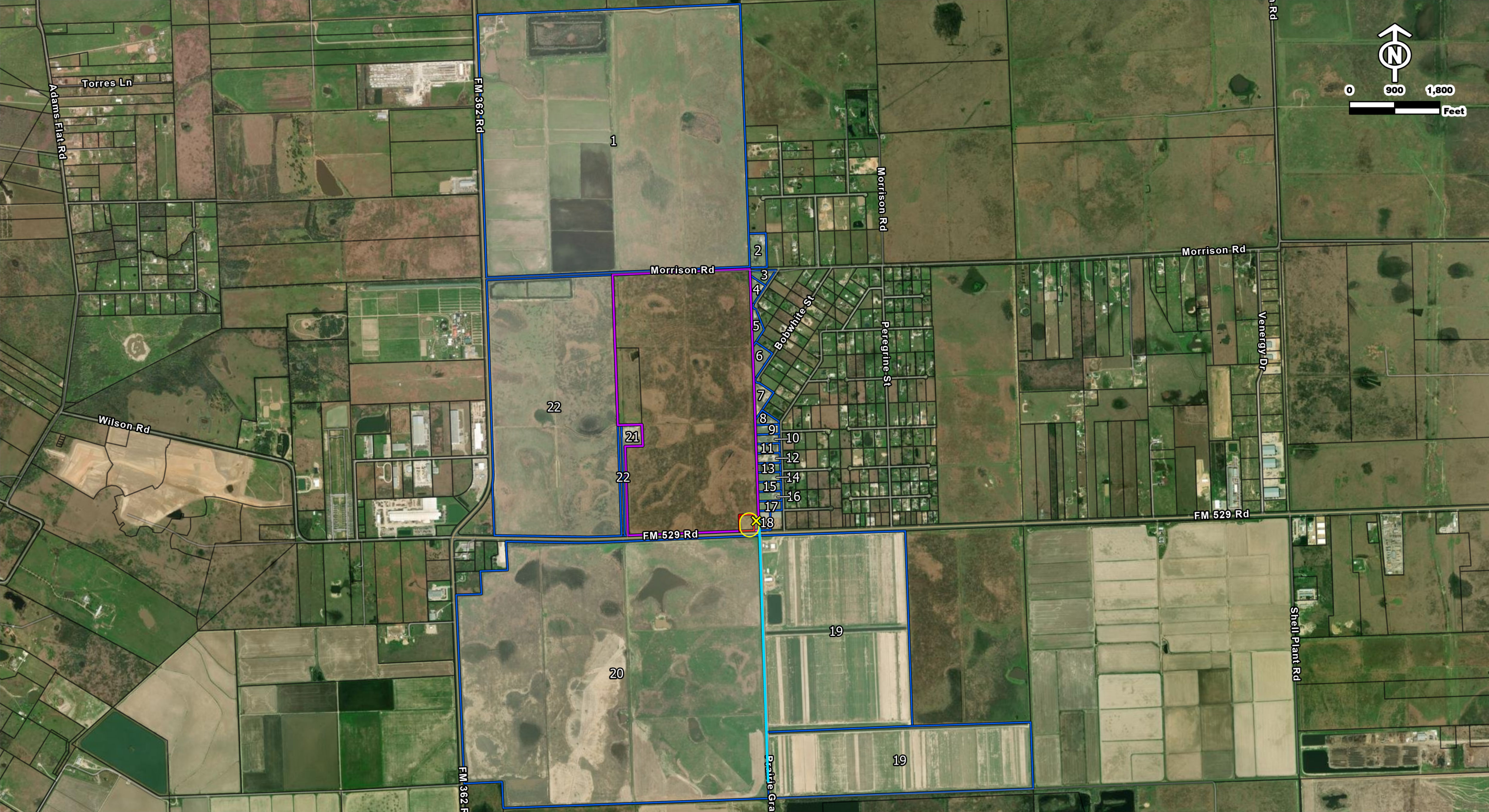
EHRA
ENGINEERING THE FUTURE
SINCE 1936

10011 Meadowglen Lane
Houston, Texas 77042
EHRAInc.com | 713.784.4500
TBP# No. F-726 | TBPLS No. 10092300

WALLER COUNTY MUD NO 46
WWTP NEW TPDES PERMIT

ATTACHMENT 5B
USGS BROOKSHIRE QUAD

Attachment 6A – Affected Landowner Map
(Corresponds to Administrative Report 1.1, Section 1, Page 12 of 17)



Waller County MUD No. 46 WWTP New TPDES Permit Attachment 6A Affected Landowners

- ✕ Outfall Point
- 1 Mile Downstream
- 150-Ft Buffer
- Parcels
- Service Area & Property Boundary
- Adjacent Parcels
- WWTP Boundary



The data presented herein are for planning and assessment purposes only. EHRA maps are assembled from data originating from Geographic Information System (GIS) databases or GIS services maintained by public entities. They do not represent legal survey. While EHRA strives to provide as accurate and reliable data as possible, EHRA makes no claims or warranty, expressed or implied, regarding the accuracy or validity of the data or products presented.

Attachment 6B – Affected Landowner List
(Corresponds to Administrative Report 1.1, Section 1, Page 12 of 17)

AFFECTED LANDOWNERS LIST

ID	Owner	Mailing Address	City	State	Zip Code
1	MULTIPLE OWNERS				
2	BERRY INES R LIFE ESTATE	32910 MORRISON RD	BROOKSHIRE	TX	77423
3	SANCHEZ JOSE L MEZA	7911 MEADOWLARK ST	BROOKSHIRE	TX	77423
4	ANDRADE EDGAR &	7847 MEADOWLARK RD	BROOKSHIRE	TX	77423
5	GARCIA KEISHA A & JAIME	7800 MEADOWLARK ST	BROOKSHIRE	TX	77423
6	CLAVELLE WANDA JOY	7611 BOB WHITE ST	BROOKSHIRE	TX	77423
7	GUERRERO JESUS	2643 CYPRESS VINE DRIVE	HOUSTON	TX	77084
8	NITSCHKE RANDELL LEE & RUTH ELZIBETH	7403 FALCON DR	BROOKSHIRE	TX	77423
9	LORENZO ROBERT & YVONNE	7313 FALCON DR	BROOKSHIRE	TX	77423
10	BELL CHRISTOPHER I & LINDA J	7223 FALCON DR	BROOKSHIRE	TX	77423
11	AGUILAR RIGOBERTO	5522 PEEK ROAD	KATY	TX	77449
12	MEDINA GILBERTO	19728 SAUMS ROAD #169	HOUSTON	TX	77084
13	CHAPMAN LISA	7203 FALCON DR	BROOKSHIRE	TX	77423
14	CONTRERAS RAFAEL JR & JULIE A	7123 FALCON DRIVE	BROOKSHIRE	TX	77423
15	MARTINEZ JULIO E &	7119 FALCON DRIVE	BROOKSHIRE	TX	77423
16	ESCOBAR FIDEL & MACEDO OLIVA	19910 MILLSTONE RIDGE LANE	KATY	TX	77449
17	SEAMENS ELISA T & MICHA W	7111 FALCON DR	BROOKSHIRE	TX	77423
18	COUNTRY METAL PROPERTIES LLC	2817 E DUPONT RD	FORT WAYNE	IN	46825
19	GAVRANOVIC FAMILY LMTD PTNSHP	32601 FM 529	BROOKSHIRE	TX	77423
20	ROYAL WAILEA INVESTMENTS LP	2047 WESTCREEK LN, SUITE 1303	HOUSTON	TX	77027
21	TWIGGY HOLDINGS LLC	33434 FM 529	BROOKSHIRE	TX	77423
22	GR 310 LLC	2909 ROGERDALE RD #421249	HOUSTON	TX	77242

Attachment 6C – Affected Landowner Mailing Labels
(Corresponds to Administrative Report 1.1, Section 1, Page 12 of 17)

MULTIPLE OWNERS	BERRY INES R LIFE ESTATE	SANCHEZ JOSE L MEZA
	32910 MORRISON RD	7911 MEADOWLARK ST
	BROOKSHIRE TX 77423	BROOKSHIRE TX 77423
ANDRADE EDGAR &	GARCIA KEISHA A & JAIME	CLAVELLE WANDA JOY
7847 MEADOWLARK RD	7800 MEADOWLARK ST	7611 BOB WHITE ST
BROOKSHIRE TX 77423	BROOKSHIRE TX 77423	BROOKSHIRE TX 77423
GUERRERO JESUS	NITSCHKE RANDELL LEE & RUTH ELZIBETH	LORENZO ROBERT & YVONNE
2643 CYPRESS VINE DRIVE	7403 FALCON DR	7313 FALCON DR
HOUSTON TX 77084	BROOKSHIRE TX 77423	BROOKSHIRE TX 77423
BELL CHRISTOPHER I & LINDA J	AGUILAR RIGOBERTO	MEDINA GILBERTO
7223 FALCON DR	5522 PEEK ROAD	19728 SAUMS ROAD #169
BROOKSHIRE TX 77423	KATY TX 77449	HOUSTON TX 77084
CHAPMAN LISA	CONTRERAS RAFAEL JR & JULIE A	MARTINEZ JULIO E &
7203 FALCON DR	7123 FALCON DRIVE	7119 FALCON DRIVE
BROOKSHIRE TX 77423	BROOKSHIRE TX 77423	BROOKSHIRE TX 77423
ESCOBAR FIDEL & MACEDO OLIVA	SEAMENS ELSA T & MICHA W	COUNTRY METAL PROPERTIES LLC
19910 MILLSTONE RIDGE LANE	7111 FALCON DR	2817 E DUPONT RD
KATY TX 77449	BROOSKHIRE TX 77423	FORT WAYNE IN 46825
GAVRANOVIC FAMILY LMTD PTNSHP	ROYAL WAILEA INVESTMENTS LP	TWIGGY HOLDINGS LLC
32601 FM 529	2047 WESTCREEK LN, SUITE 1303	33434 FM 529
BROOKSHIRE TX 77423	HOUSTON TX 77027	BROOKSHIRE TX 77423
GR 310 LLC		
2909 ROGERDALE RD #421249		
HOUSTON TX 77242		

Attachment 7A – Original Photographs
(Corresponds to Administrative Report 1.1, Section 2, Page 13 of 17)

P:\231-088-21\Drawings\Waller County MUD 46 WWTP\Exhibits\Attachment 7A - Original Photographs\Attachment 7A - Original Photographs.dwg Apr 30, 2024-3:06pm Edited by: SDavidson



10011 Meadowglen Lane
Houston, Texas 77042
EHRA@hctx.com | 713.784.1600
Toll-free: 1-800-773-1111 | TDD: 713.784.1600

Environmental Health Resources
Since 1996

**WALLER COUNTY MUD NO 46 WWTP
NEW TPDES PERMIT**

ATTACHMENT 7A
PHOTO 1
UPSTREAM

P:\231-088-21\Drawings\Waller County MUD 46 WWTP\Exhibits\Attachment 7A - Original Photographs.dwg May 06, 2024 - 4:04pm Edited by: SDavidson



**WALLER COUNTY MUD NO 46 WWTP
NEW TPDES PERMIT**

ATTACHMENT 7A
PHOTO 2
OUTFALL

P:\231-088-21\Drawings\Waller County MUD 46 WWTP\Exhibits\Attachment 7A - Original Photographs.dwg Apr 30, 2024-3:06pm Edited by: SDavidson



EHRA 10011 Meadowglen Lane
Houston, Texas 77042
EHRA@hcc.com | 713.784.6500
Toll-free: 1-800-333-3333

WALLER COUNTY MUD 46 WWTP

ATTACHMENT 7A
PHOTO 3
DOWNSTREAM

P:\231-088-21\Drawings\Waller County MUD 46 WWTP\Exhibits\Attachment 7A - Original Photographs\Attachment 7A - Original Photographs.dwg Apr 30, 2024-3:07pm Edited by: SDavidson



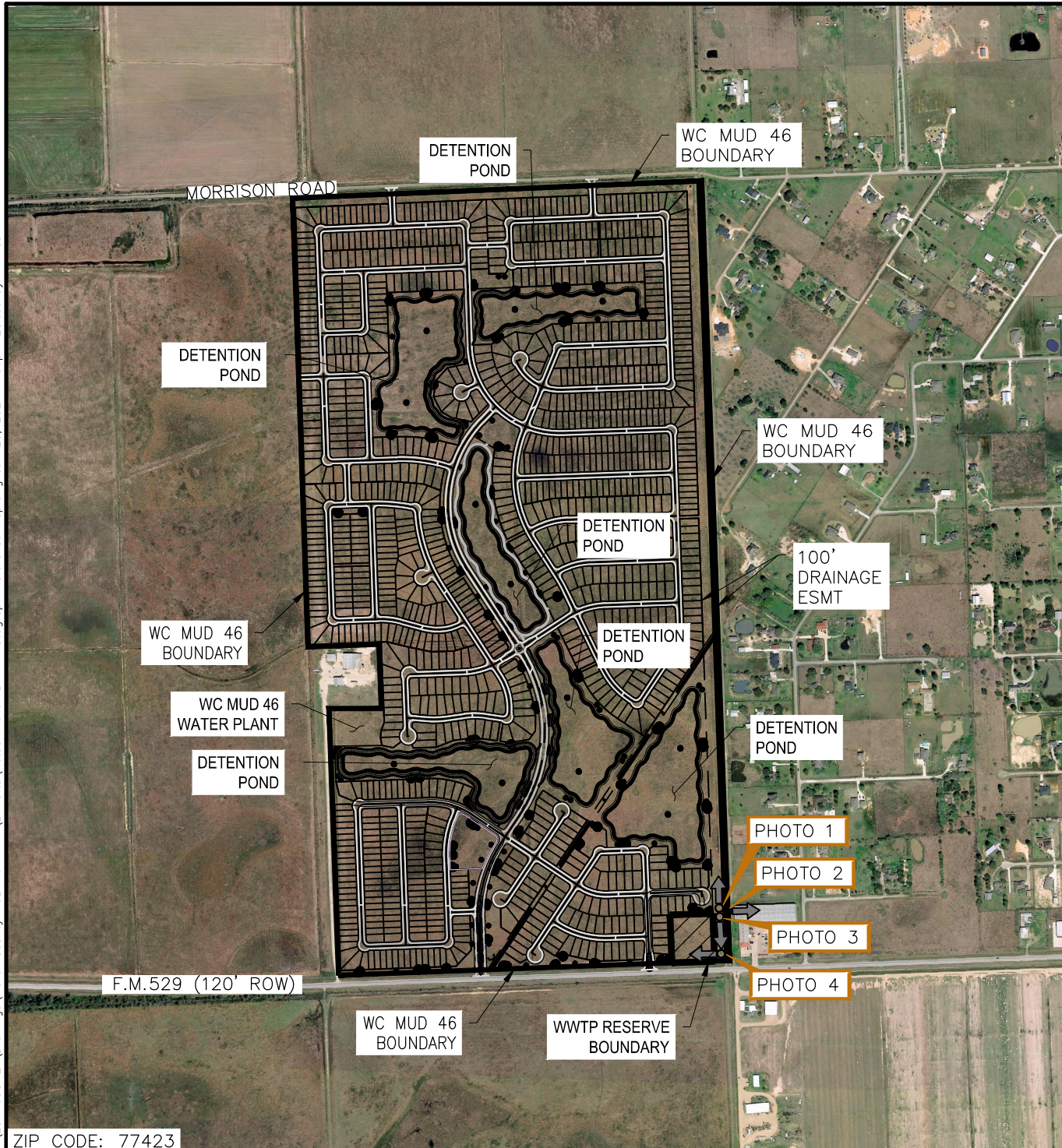
10011 Meadowglen Lane
Houston, Texas 77042
EHRAInc.com | 713.784.6500
Toll-free: 1-800-333-7336 | TDD: 713.784.6500

Environmental and Planning
Since 1986

**WALLER COUNTY MUD NO 46 WWTP
NEW TPDES PERMIT**

ATTACHMENT 7A
PHOTO 4
WWTP SITE

Attachment 7B – Photograph Reference Map
(Corresponds to Administrative Report 1.1, Section 2, Page 13 of 17)



ZIP CODE: 77423



○
PHOTO LOCATION



WWTP LOCATION



SERVICE AREA



CAMERA
DIRECTION



Estimating the Future
Since 1956

10011 Meadowglen Lane
Houston, Texas 77042
EHRAInc.com | 713.764.4800
Toll Free 1-877-775-7755

**WALLER COUNTY MUD NO 46 WWTP
NEW TPDES PERMIT**

ATTACHMENT 7B
PHOTOGRAPH
REFERENCE MAP

Attachment 8 – Buffer Zone Map
(Corresponds to Administrative Report 1.1, Section 3, Page 13 of 17)

Attachment 9 – Supplemental Permit Information Form
(Corresponds to Administrative Report 1.1, Page 14 of 17)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

____ Texas Historical Commission

____ U.S. Fish and Wildlife

____ Texas Parks and Wildlife Department

____ U.S. Army Corps of Engineers

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

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this 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.

The following applies to all applications:

1. Permittee: Century Communities, Inc.

Permit No. WQ00 New Permit

EPA ID No. TX New Permit

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

The proposed wastewater treatment plant is located approximately 0.14 miles west northwest of Falcon Dr and Farm to Market Road No. 529.

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

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

First and Last Name: Valerie Lara

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

Title: Assistant Project Manager

Mailing Address: 10011 Meadowglen Lane

City, State, Zip Code: Houston, Texas, 77042

Phone No.: 713-784-4500 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: vlara@ehra.team

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

N/A

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

The effluent will discharge from the WWTP via storm sewer; thence to an unnamed tributary; thence to Brookshire Creek; thence to Bessies Creek; thence to Brazos River Below Navasota River; thence Brazos River Tidal.

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

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

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

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

☒ Disturbance of vegetation or wetlands

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

Construction of a wastewater treatment plant including approximately 2 acres of clearing. Construction of a partial in-ground common wall treatment plant, concrete foundations for blowers, chemical tanks, approximately 30 feet of excavation for one on-site lift station, and an access road.

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

The existing land use is mostly grassland with some shrubs and trees.

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

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

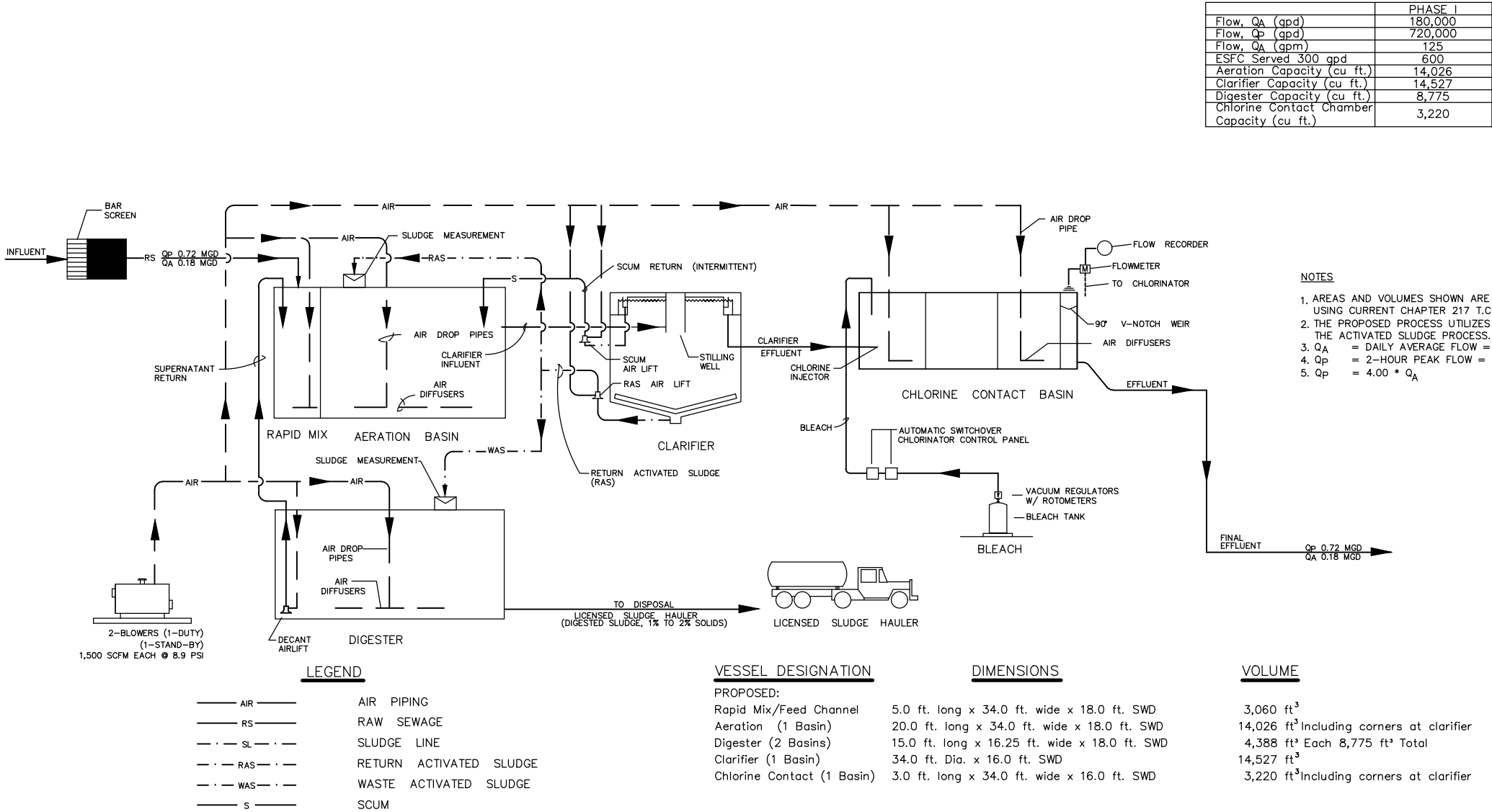
There are currently no buildings or structures on the property. Construction of the WWTP is proposed to be complete in July 2026.

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

The proposed WWTP will be located on a 318.1-acre piece of property. The property currently is mostly grassland with some shrubs and trees. Century Communities, Inc. is the proposed developer of the land.

Attachment 10A – Process Flow Diagram – Phase 1
(Corresponds to Technical Report 1.0, Section 2, Page 2 of 66)

P:\231-088-21\Drawings\Waller County MUD 46 WWTP\Exhibits\Attachment 10A - Process Flow Diagram Phase I.dwg Jun 20, 2024-11:29am Edited by: Faris



PROCESS FLOW DIAGRAM

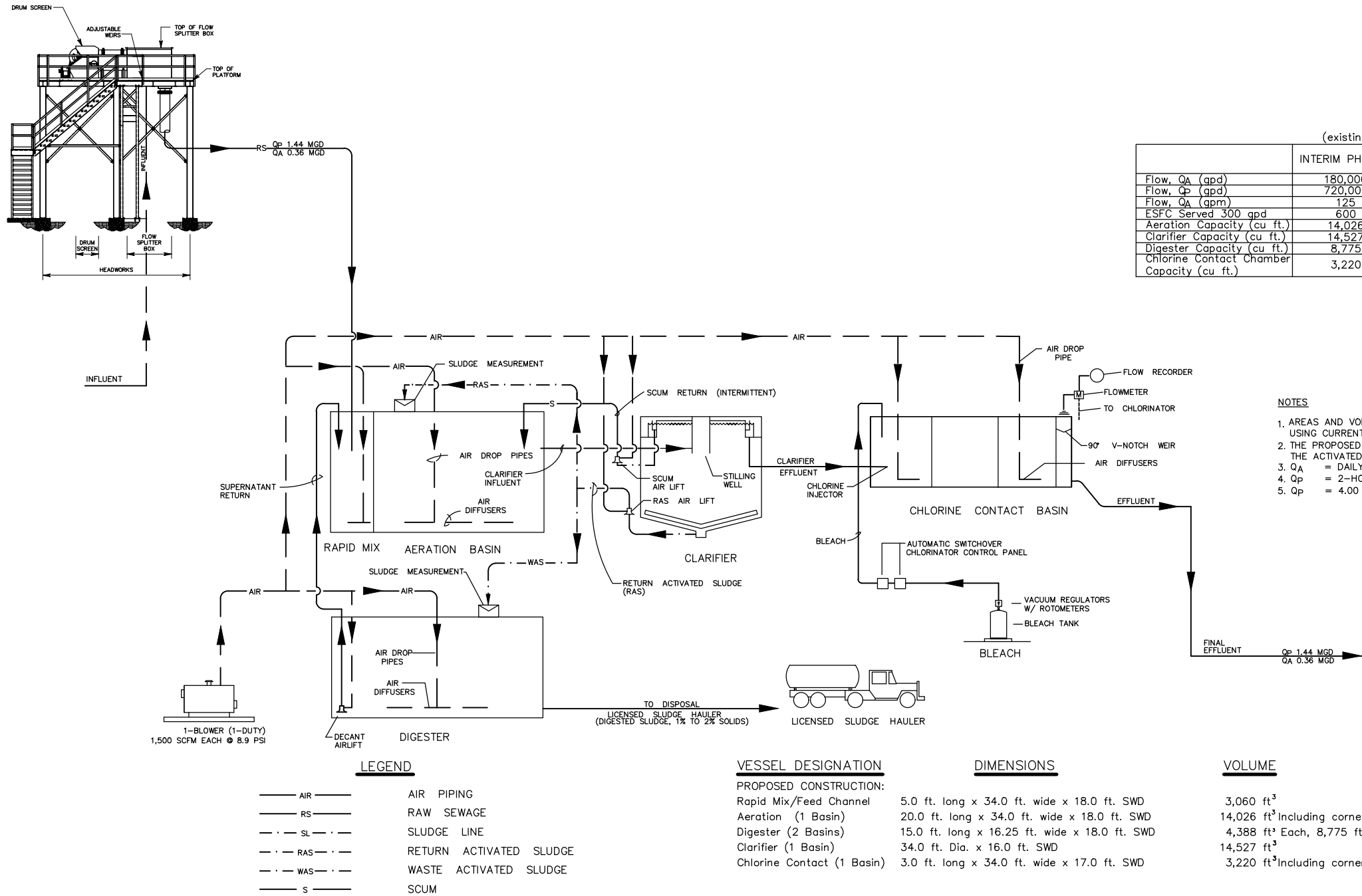


WALLER COUNTY MUD NO. 46 WWTP
NEW TPDES PERMIT

ATTACHMENT 10A
PROCESS FLOW DIAGRAM
PHASE I

Attachment 10B – Process Flow Diagram – Phase 2
(Corresponds to Technical Report 1.0, Section 2, Page 2 of 66)

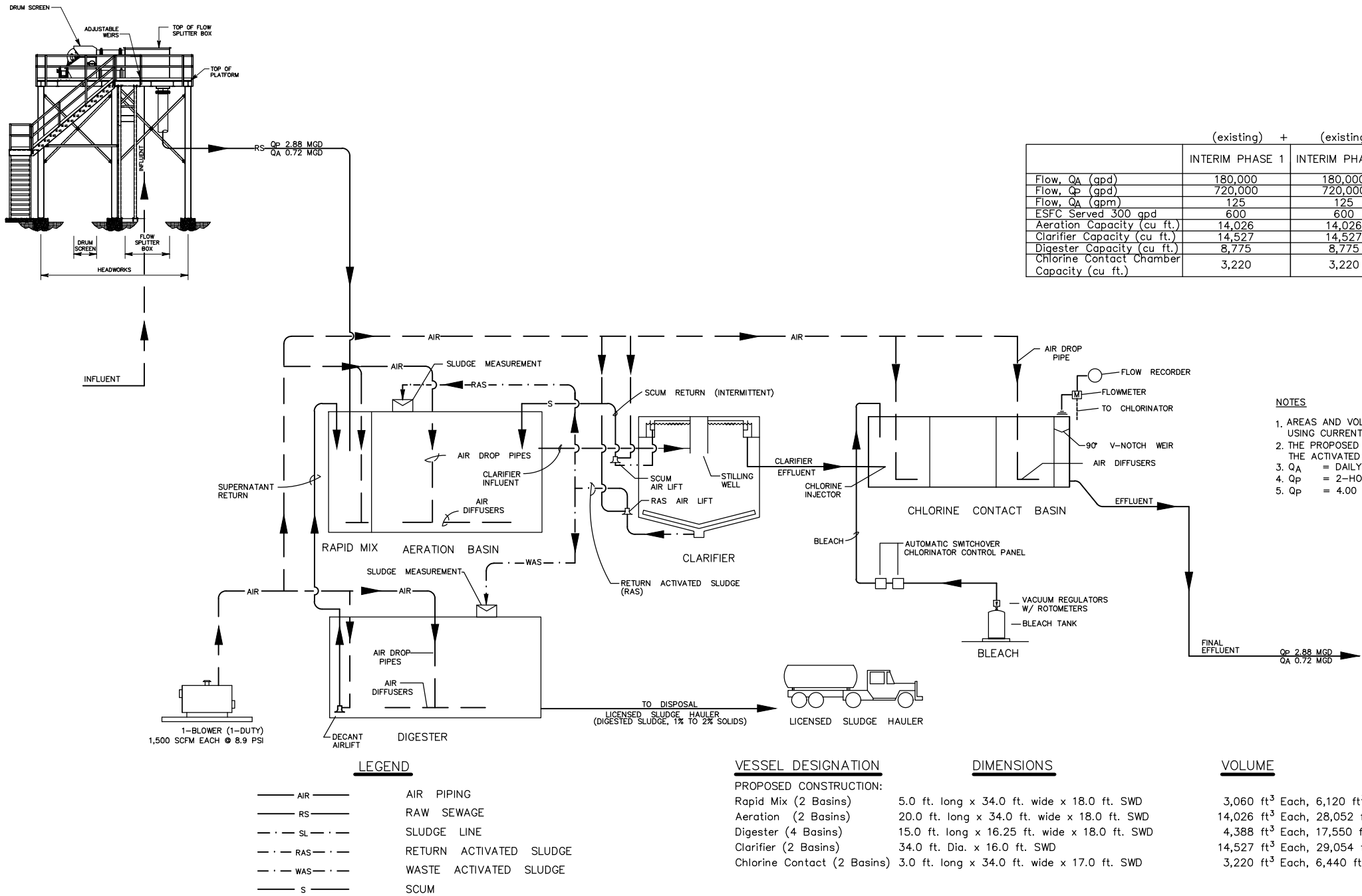
P:\231-088-21\Drawings\Water County MUD 46 WWTP\Exhibits\Attachment 10B - Process Flow Diagram Phase II.dwg Jun 20, 2024-11:22am Edited by: Farios



PROCESS FLOW DIAGRAM

Attachment 10C – Process Flow Diagram – Ultimate Phase
(Corresponds to Technical Report 1.0, Section 2, Page 2 of 66)

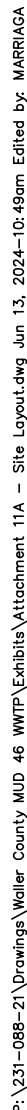
P:\231-088-21\Drawings\Water County MUD 46 WWTP\Exhibits\Attachment 10C -- Process Flow Diagram Ult Phase.dwg Jun 20, 2024--11:23am Edited by: Faris



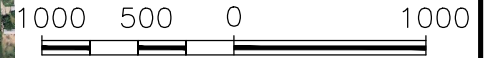
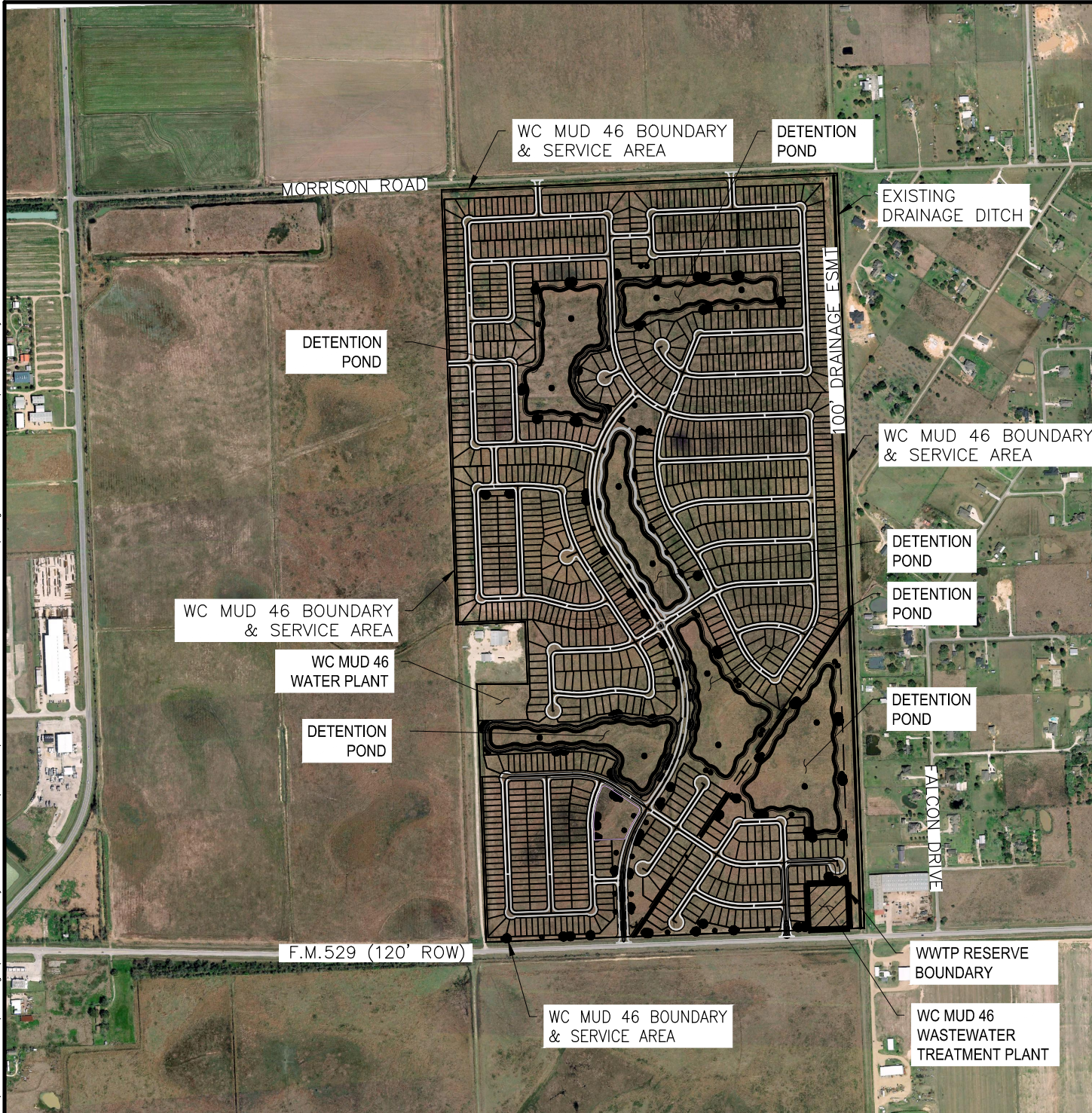
	(existing)	+	(existing)	+	(CONSTRUCTION)	=	(TOTAL)
	INTERIM PHASE 1		INTERIM PHASE 2		ULTIMATE PHASE		ULTIMATE PHASE (CUMULATIVE)
Flow, Q _A (gpd)	180,000		180,000		360,000		720,000
Flow, Q _P (gpd)	720,000		720,000		1,440,000		2,880,000
Flow, Q _A (gpm)	125		125		250		500
ESFC Served 300 gpd	600		600		1,200		2,400
Aeration Capacity (cu ft.)	14,026		14,026		28,052		56,104
Clarifier Capacity (cu ft.)	14,527		14,527		29,054		58,107
Digester Capacity (cu ft.)	8,775		8,775		17,550		35,100
Chlorine Contact Chamber Capacity (cu ft.)	3,220		3,220		6,440		12,880

- NOTES
- AREAS AND VOLUMES SHOWN ARE EQUAL TO OR GREATER THAN MINIMUMS USING CURRENT CHAPTER 217 T.C.E.Q. DESIGN CRITERIA.
 - THE PROPOSED PROCESS UTILIZES THE COMPLETE-MIX MODE OF THE ACTIVATED SLUDGE PROCESS.
 - Q_A = DAILY AVERAGE FLOW = 0.72 MGD = 1.11 CFS
 - Q_P = 2-HOUR PEAK FLOW = 2.88 MGD = 4.46 CFS
 - Q_P = 4.00 * Q_A

Attachment 11A – Site Layout
(Corresponds to Technical Report 1.0, Section 3, Page 3 of 66)



Attachment 11B – Service Area Map
(Corresponds to Technical Report 1.0, Section 3, Page 3 of 66)



10011 Meadowglen Lane
Houston, Texas 77042
EHRAInc.com | 713.764.4800
TWP No. F-725 | TWP L.S. No. 2000000

Estimating the Future
Since 1956

**WALLER COUNTY MUD NO 46 WWTP
NEW TPDES PERMIT**

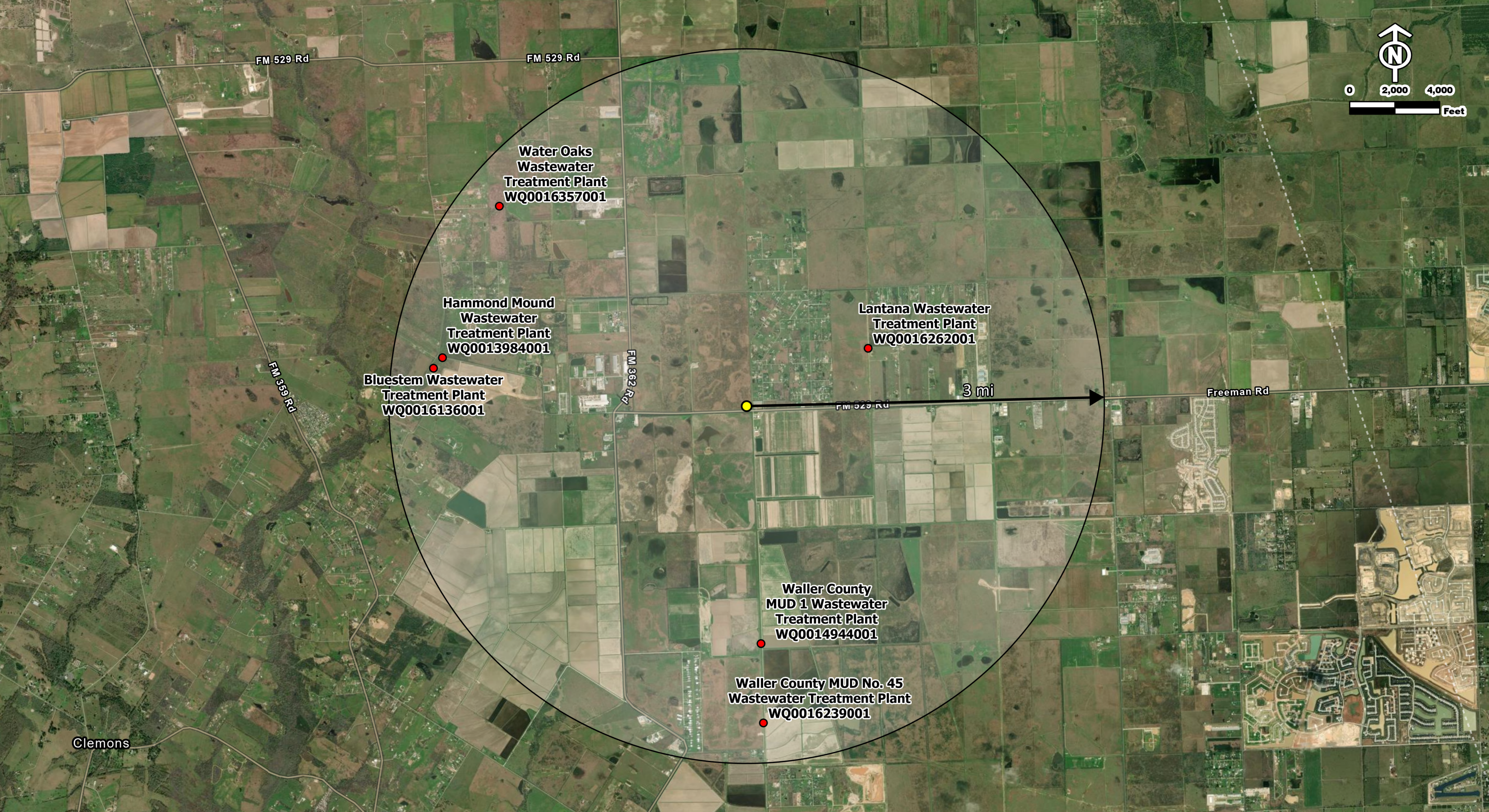
ATTACHMENT 11B
SERVICE AREA MAP

Attachment 12A – List of WWTPs within 3 Mile Radius
(Corresponds to Technical Report 1.1, Section 1.B.3, Page 22 of 66)

List of WWTPs within 3 Mile Radius

No	Customer Name	WWTP Name	TPDES PERMIT NO
1	Astro Sunterra West Lp	Waller County MUD 1 Wastewater Treatment Plant	WQ0014944001
2	Bluestem Development Company, LLC	Bluestem Wastewater Treatment Plant	WQ0016136001
3	Enclave Gassner Tract, LLC	Waller County MUD No. 45 Wastewater Treatment Plant	WQ0016239001
4	Quadvest LP	Lantana Wastewater Treatment Plant	WQ0016262001
5	Quadvest LP	Water Oaks Wastewater Treatment Plant	WQ0016357001
6	Utilities Investment Company, Inc	Hammond Mound Wastewater Treatment Plant	WQ0013984001

Attachment 12B – Map of WWTPs within 3 Mile Radius
(Corresponds to Technical Report 1.1, Section 1.B.3, Page 22 of 66)



Waller County MUD No. 46 WWTP New TPDES Permit

Attachment 12B WWTP's Within 3 Mile Radius

- **Wastewater Treatment Plants**
- **Waller County MUD No. 46 WWTP**
- 3 Mile Buffer**



The data presented herein are for planning and assessment purposes only. EHRA maps are assembled from data originating from Geographic Information System (GIS) databases or GIS services maintained by public entities. They do not represent legal survey. While EHRA strives to provide as accurate and reliable data as possible, EHRA makes no claims or warranty, expressed or implied, regarding the accuracy or validity of the data or products presented.

Attachment 12C – Capacity Request Correspondence

(Corresponds to Technical Report 1.1, Section 1.B.3, Page 22 of 66)



TBPE No. F-726
TBPLS No. 10092300

April 4, 2024

Via Certified Mail Article No. 9489 0090 0027 6550 9295 14

Mr. Shannon Marsh, President
Utilities Investment Company, Inc.
P.O. Box 279
New Waverly, Texas 77358

Re: Century Communities, Inc.
±318.1 Acre Tract - Proposed 0.360 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 231-088-21

Dear Mr. Marsh:

Century Communities, Inc. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.360 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Hammond Mound Utilities Wastewater Treatment Plant (WQ0013984001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.360 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.360 MGD.

Name

Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, Texas 77042 or via email at vlara@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely,

Valerie Lara

Valerie Lara, P.E.
Assistant Project Manager
Water and Wastewater Facilities

cc: Paul Anderson, P.E. - Firm
Cam Jackson, P.E. - Firm
Francisco Arias, E.I.T. - Firm



TBPE No. F-726
TBPLS No. 10092300

April 4, 2024

Via Certified Mail Article No. 9489 0090 0027 6391 4510 07

Mr. Shannon Marsh, President
Utilities Investment Company, Inc.
P.O. Box 279
New Waverly, Texas 77358

Re: Century Communities, Inc.
±318.1 Acre Tract – Proposed 0.360 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 231-088-21

Dear Mr. Marsh:

Century Communities, Inc. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.360 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Bluestem Wastewater Treatment Plant (WQ0016136001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.360 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.360 MGD.

Name

Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, Texas 77042 or via email at vlara@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely,

Valerie Lara

Valerie Lara, P.E.
Assistant Project Manager
Water and Wastewater Facilities

cc: Paul Anderson, P.E. – Firm
Cam Jackson, P.E. – Firm
Francisco Arias, E.I.T. – Firm



TBPE No. F-726
TBPLS No. 10092300

April 4, 2024

Via Certified Mail Article No. 9489 0090 0027 6391 4509 94

Astro Sunterra West, L.P.
2322 West Grand Parkway North, Suite 150
Katy, Texas 77449

Re: Century Communities, Inc.
±318.1 Acre Tract – Proposed 0.360 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 231-088-21

Dear Astro Sunterra West, L.P.:

Century Communities, Inc. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.360 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Waller County Municipal Utility District No. 1 Wastewater Treatment Plant (WQ0014944001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.360 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.360 MGD.

Name

Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, Texas 77042 or via email at vlara@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely,

Valerie Lara

Valerie Lara, P.E.
Assistant Project Manager
Water and Wastewater Facilities

cc: Paul Anderson, P.E. – Firm
Cam Jackson, P.E. – Firm
Francisco Arias, E.I.T. – Firm



TBPE No. F-726
TBPLS No. 10092300

April 4, 2024

Via Certified Mail Article No. 9489 0090 0027 6550 9295 21

Mr. Simon Sequeira, President
Quadvest LP
26926 FM 2978 Road
Magnolia, Texas 77354

Re: Century Communities, Inc.
±318.1 Acre Tract – Proposed 0.360 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 231-088-21

Dear Mr. Sequeira:

Century Communities, Inc. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.360 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Lantana Wastewater Treatment Plant (WQ0016262001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.360 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.360 MGD.

Name

Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, Texas 77042 or via email at vlara@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely,

Valerie Lara

Valerie Lara, P.E.
Assistant Project Manager
Water and Wastewater Facilities

cc: Paul Anderson, P.E. – Firm
Cam Jackson, P.E. – Firm
Francisco Arias, E.I.T. – Firm



TBPE No. F-726
TBPLS No. 10092300

April 4, 2024

Mr. Alex Kamkar, Managing Shareholder
Enclave Gassner, LLC
24 Greenway Plaza, Suite 970
Houston, Texas 77046

Re: Century Communities, Inc.
±318.1 Acre Tract – Proposed 0.360 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 231-088-21

Dear Mr. Kamkar:

Century Communities, Inc. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.360 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Waller County Municipal Utility District No. 45 Wastewater Treatment Plant (WQ0016239001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ YES, our WWTP can accept the additional 0.360 MGD.

☒ NO, our WWTP cannot accept the additional 0.360 MGD.

Joshua M. Campbell, PE

Name

4-4-24

Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, Texas 77042 or via email at vlara@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely,

Valerie Lara

Valerie Lara, P.E.
Assistant Project Manager
Water and Wastewater Facilities

cc: Paul Anderson, P.E. – Firm
Cam Jackson, P.E. – Firm
Francisco Arias, E.I.T. – Firm



TBPE No. F-726
TBPLS No. 10092300

April 4, 2024

Via Certified Mail Article No. 9489 0090 0027 6550 9295 38

Mr. Simon Sequeira, President
Quadvest LP
26926 FM 2978 Road
Magnolia, Texas 77354

Re: Century Communities, Inc.
±318.1 Acre Tract – Proposed 0.360 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 231-088-21

Dear Mr. Sequeira:

Century Communities, Inc. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.360 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Water Oaks Wastewater Treatment Plant (WQ0016357001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.360 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.360 MGD.


Name

4/9/24
Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, Texas 77042 or via email at vlara@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely,

Valerie Lara

Valerie Lara, P.E.
Assistant Project Manager
Water and Wastewater Facilities

cc: Paul Anderson, P.E. – Firm
Cam Jackson, P.E. – Firm
Francisco Arias, E.I.T. – Firm

Attachment 13 – Design Calculations
(Corresponds to Technical Report 1.1, Section 4, Page 22 of 66)

PROJECT: Waller County MUD No. 46
0.18 MGD WWTP PHASE I

FINAL CLARIFIERS 5/29/2024

ENGINEER: EHRA, Inc.
10011 Meadowglen Lane
Houston, TX 77042

Krystal Regner, P.E. 713-784-4500 office
Valerie Lara, P.E.

kregner@ehra.team
vlara@ehra.team



DESIGN REQUIREMENTS:

The Wastewater Treatment Plant shall be constructed in four (4) Trains, each consisting of a 0.18 MGD (ADF) common wall, Complete Mix Activated Sludge WWTP, for a total ultimate plant capacity of **0.72 MGD**. Phase I shall consist of one (1) process trains, with the remaining trains constructed in later project phases. The Process will be designed for Single Stage Nitrification with capacity for future Biological Denitrification. Design Basis shall be current TCEQ Chapter 217 Rules
The WWTP main process trains shall incorporate all new concrete tankage.

Ultimate Phase Conditions:

AVERAGE DAILY FLOW	=	0.72	MGD	=	500.00 GPM
PEAKING FACTOR	=	4			
PEAK 2-HOUR FLOW	=	2.88	MGD	=	2,000.00 GPM

Phase II Flow Conditions:

AVERAGE DAILY FLOW	=	0.360	MGD	=	250.00 GPM
PEAKING FACTOR	=	4			
PEAK 2-HOUR FLOW	=	1.44	MGD	=	1,000.00 GPM

Phase I Flow Conditions:

AVERAGE DAILY FLOW	=	0.180	MGD	=	125.00 GPM
PEAKING FACTOR	=	4			
PEAK 2-HOUR FLOW	=	0.72	MGD	=	500.00 GPM
		720,000	GPD		

Influent Loadings

BOD	=	300
TSS	=	240
NH3	=	45

DISCHARGE PERMIT LIMITS

BOD	=	7	MG / L	
TSS	=	15	MG / L	
NH3	=	2	MG / L	
O2	=	4	MG / L	Oxygen residual
Chlorine Residual	=	1	MG / L	after 20 minutes contact time

CLARIFIER PROCESS DESCRIPTION

THE MAXIMUM FINAL CLARIFIER SURFACE LOADING SHALL BE:

LESS THAN **1,200** GPD PER SQ. FT AT PEAK 2-HOUR FLOW

RETURN ACTIVATED SLUDGE FLOW

MIN FLOW = **200** GALS PER DAY PER SQ. FT OF CLARIFIER AREA

MAX FLOW = **400** GALS PER DAY PER SQ. FT OF CLARIFIER AREA

FINAL CLARIFIER WEIR LOADINGS SHALL NOT EXCEED **20,000**
PER LINEAR FOOT OF WEIR LENGTH

FINAL CLARIFIER MINIMUM DETENTION TIME SHALL BE

2.2 HOURS AT PEAK 2-HOUR FLOW

FINAL CLARIFIER DESIGN: (Each Train)

AREA REQ'D = (PEAK 2-HR FLOW) / (1200 GPD/SF)

AREA REQ'D = 600.00 SQ. FT

DIA = 27.64 FT

DETERMINE MINIMUM WEIR LENGTH

MAXIMUM LOADING RATE = 20,000 GPD/FT WEIR

MINIMUM WEIR LENGTH = (PEAK 2-HOUR FLOW) / (LOADING RATE)

MINIMUM WEIR LENGTH = 36.00 FEET

WEIR DIAMETER = 11.46 FEET

PEAK FLOW OVERFLOW RATE GOVERNS FOR CLARIFIER SIZING

PROVIDE ONE (1) 34.00 FOOT DIAMETER FINAL CLARIFIERS PER TRAIN

CHECK DETENTION TIME OF FINAL CLARIFIER

AT PEAK 2-HOUR FLOW = 0.7 MGD = 500 GPM

AT DESIGN FLOW = 0.18 MGD = 125 GPM

ASSUME SIDE WATER DEPTH OF CLARIFIER = 16.0 FEET

VOLUME OF CLARIFIER = (AREA OF CLARIFIER) * (DEPTH)

VOLUME OF CLARIFIER = 14,526.76 CUBIC FEET

VOLUME OF CLARIFIER = 108,660.15 GALLONS

DETENTION TIME = TOTAL VOLUME / FLOW RATE

DETENTION TIME AT PEAK 2-HOUR FLOW = 217.32 MINS

DETENTION TIME AT PEAK 2-HOUR FLOW = 3.62 HRS

PROJECT: Waller County MUD No. 46
0.18 MGD WWTP PHASE I
(Calculations for one (1) train)

PROCESS AERATION 5/29/2024

DESIGN REQUIREMENTS:

FLOW CONDITIONS:

AVERAGE DAILY FLOW = 0.180 MGD = 125 GPM
PEAK 2-HOUR FLOW = 0.720 MGD = 500 GPM

INFLUENT LOADINGS:

BOD = 300.00 8.34 0.180 = 450.36 lbs/day
TSS = 240.00 8.34 0.180 = 360.288 lbs/day
NH3 = 45.00 8.34 0.180 = 67.554 lbs/day

PROCESS AERATION BASIN SIZING:

MAXIMUM ORGANIC LOADING FOR SINGLE STAGE NITRIFICATION PROCESS
REQ'D VOLUME = 35 LBS/DAY BOD/ 1000 CF TANKAGE

12,867 cf

CHECK THE F:M RATIO WITH MLSS = 2000 MG / L
F:M = $\frac{[(\text{LBS PER DAY BOD}) * (1,000,000)]}{[(\text{VOL PROVIDED})]}$
(7.48) * (8.34) * (2000)

F:M = 0.23 GOOD!

PHYSICAL ARRANGEMENT OF AERATION BASIN:

WHAT IS INSIDE DIAMETER OF FINAL CLARIFIER? 34 ft
PROPOSED SIDE WATER DEPTH OF AERATION TANK 18 ft

CALCULATE AREA OF CORNERS

d = inside diameter = b + a + b = 34.00 feet
n = number of sides of polygon = 6.00
angle = (180 degrees) / (n) = 30.00 degrees
Tan angle = Tan (22.5 degrees) = 0.41
R1 = radius = diameter / 2 = 17.00 feet
a = (2) (tan 22.5 degrees) (R1) = 14.08 feet
b = (diameter - a) / (2) = 9.96 feet
Area of each corner = 49.62 sf

DETERMINE AREA OF AERATION BASINS

AREA = REQUIRED BASIN VOLUME / SIDE WATER DEPTH
AREA REQUIRED FOR AERATION BASIN = 714.86 SF
AREA OF EACH CORNER = 49.62 SF
AREA REQUIRED FOR RECTANGLE = 615.62 SF

DETERMINE LENGTH OF AERATION BASIN

WIDTH OF RECTANGLE = 34 FEET
LENGTH OF RECTANGLE = 18.11 FEET Use 20 FT

AERATION BASIN VOLUME: 14,026 CF
TOTAL AERATION VOLUME: 15,556 CF INCLUDES RAPID MIX
MORE THAN REQ'D VOLUME OF 12,867 CF OK

PROCESS AERATION EQUIPMENT SIZING:

$$\begin{array}{lcl} \text{MINIMUM O}_2 \text{ REQ'D} & = & 2.2 \quad \# \text{ O}_2/\# \text{ BOD}_5/\text{day} \\ \text{O}_2 \text{ REQ'D} & = & 990.79 \text{ \#/day} \end{array}$$

$$\begin{array}{lcl} \text{CLEAN WATER TRANSFER EFFICIENCY} & = & 11.25\% \text{ (CWTE)} \\ \text{USE TCEQ CLEAN TO DIRTY WATER CORRECTION FACTOR:} & & 0.65 \\ \text{AIRFLOW REQ'D} = & \frac{\# \text{O}_2/\text{DAY}}{(\text{CF})(\text{CWTE})(.232)(.075)(1440)} & \text{SCFM} \end{array}$$

$$\text{AIRFLOW REQ'D} = 496 \text{ SCFM}$$

AERATION EQUIPMENT:

$$\text{DESIGN AIRFLOW PER 1-INCH DIFFUSER} = 14 \text{ SCFM}$$

$$\begin{array}{lcl} \text{DIFFUSERS REQ'D} & = & \text{TOTAL AIRFLOW} / \text{AIRFLOW PER DIFFUSER} \\ \text{DIFFUSERS REQ'D} & = & 35 \end{array}$$

$$\text{PROVIDE } 40 \text{ 1-INCH DIFFUSERS AT } 12.4 \text{ SCFM EACH}$$

PROJECT: Waller County MUD No. 46
0.18 MGD WWTP PHASE I

AIRLIFT PUMPS

5/29/2024

DESIGN REQUIREMENTS:

FLOW CONDITIONS: (each train)

AVERAGE DAILY FLOW = 0.18 MGD = 125 GPM
PEAK 2-HOUR FLOW = 0.72 MGD = 500 GPM

INFLUENT LOADINGS:

BOD = 300 8.34 0.18 = 450 LBS PER DAY
TSS = 240 8.34 0.18 = 360 LBS PER DAY
NH3 = 45 8.34 0.18 = 53 LBS PER DAY

RAS AIRLIFT PUMP DESIGN

RETURN ACTIVATED SLUDGE FLOW PER CHAPTER 217

MIN FLOW = 200 GALS PER DAY PER SQ FT OF CLARIFIER AREA
MAX FLOW = 400 GALS PER DAY PER SQ FT OF CLARIFIER AREA

FINAL CLARIFIER AREA = 908 SQUARE FEET

MIN FLOW = 181,584 GALLONS PER DAY
MIN FLOW = 126 GALLONS PER MINUTE

MAX FLOW = 363,168 GALLONS PER DAY
MAX FLOW = 252 GALLONS PER MINUTE

ASSUME 2 AIRLIFT PUMPS
FLOW PER AIRLIFT PUMP = 126 GPM

PROVIDE 2 4-INCH DIAMETER AIRLIFT PUMPS LOCATED IN THE RAPID MIX CHAMBER

PUMPING CAPACITY: 110 GPM NOMINAL
140 GPM MAXIMUM

NOMINAL AIRFLOW PER 4" RASALP: 10 SCFM
MAX AIRFLOW PER 4" RASALP: 15 SCFM

WAS AIRLIFT PUMP DESIGN

BOD = W.A.S. = 450 LBS PER DAY (DRY SOLIDS)
ASSUME W.A.S. = 0.5 % CONCENTRATION (DRY SOLIDS)
= 5000 MG / L

WAS FLOW = $\frac{(\#/\text{day solids})}{(\% \text{ concentration})} \times (8.34)$

WAS FLOW = 10800 GALS PER DAY

USE 6" AIRLIFT PUMP @ 250 GPM NOMINAL, EACH CLARIFIER

PUMPING CAPACITY: 250 GPM NOMINAL
350 GPM MAXIMUM

10800 GPD @ 250 GPM
0.72 HRS WAS PUMPING PER DAY

PUMP 4 TIMES PER DAY (EVERY 6 HOURS) FOR 10.8 MINUTES

NOMINAL AIRFLOW PER 6" WASALP: 20 SCFM
MAX AIRFLOW PER 6" WASALP: 35 SCFM

OR 250 GPM MECHANICAL PUMPS

PROJECT: Waller County MUD No. 46
0.72 MGD WWTP ULTIMATE PHASE

RAS AND INFLUENT CHANNEL 5/29/2024

PROCESS DESCRIPTION:

INCOMING SCREEN RAW WASTEWATER IS INTRODUCED TO THE PLANT THROUGH THE INFLUENT CHANNEL. RAS AIRLIFT PUMPS ARE LOCATED AT THE HEAD OF THE CHANNEL FOR MIXING WITH THE INCOMING RAW SEWAGE FLOW PRIOR TO DISTRIBUTION TO THE PROCESS AERATION BASINS. AIR IS INTRODUCED INTO THE HEAD OF THE CHANNEL AT A HIGH RATE IN ORDER TO OXYGENATE THE INCOMING RAW AND COMPLETELY MIX IT WITH THE RETURN ACTIVATED SLUDGE.

Pipe Size (in)	Q (gpm)	Air Lifts		Max Q (gpm)	Max Air (cfm)
		Alt (cfm)			
3	80	5	80	10	
4	110	10	140	15	
6	250	20	350	35	
8	500	40	650	60	
10	750	60	950	80	
12	1000	70	1200	100	
14	1200	100	1400	130	
16	1600	150	2000	200	

DESIGN REQUIREMENTS:

FLOW CONDITIONS: THIS BASIN DESIGNED FOR ULTIMATE FLOW

AVERAGE DAILY FLOW = 0.72 MGD = 500.00 GPM
PEAKING FACTOR = 4
PEAK 2-HOUR FLOW = 2.88 MGD = 2000.00 GPM

RAS AIRLIFT FLOW 2 - 6" ALPS (EACH TRAIN) 250 GPM NOMINAL
350 GPM MAXIMUM

TOTAL RAS FLOW FOR 8 PUMPS 2000 GPM NOMINAL
2800 GPM MAXIMUM

TOTAL ADF/NOMINAL INFLUENT TO RAPID MIX: 2600 GPM
334 CFM

TOTAL PEAK/MAX INFLUENT TO RAPID MIX: 4800 GPM
642 CFM

PROCESS REQUIREMENTS:

THE RAS/INFLUENT CHANNEL MAY BE CONSIDERED AN EXTENSION OF THE PROCESS AERATION BASIN IN TERMS OF VOLUME AND AIR REQUIREMENTS. THE MINIMUM AIR REQUIRED FOR RAPID MIXING IS 50 SCFM/KCF. THE MINIMUM AIR REQUIRED FOR MIXING IN THE BALANCE OF THE CHANNEL IS 20 SCFM/KCF. AIR REQUIREMENTS WILL BE

RAPID MIX:

BASIN WIDTH = 5 FEET
BASIN LENGTH = 17 FEET
SIDE WATER DEPTH = 18 FEET

RAPID MIX BASIN VOLUME = 1530 CU FT

HRT AT DESIGN AVERAGE FLOW = 4.68 MIN
HRT AT PEAK FLOW = 2.38 MIN

PROVIDE 50 SCFM PER 1000 CUBIC FEET OF BASIN VOLUME

AERATION REQUIRED = 76.5 SCFM

DIFFUSER SIZE = 2 INCH M.S. DIFFUSER
NOMINAL AIRFLOW PER 2-INCH DIFFUSER = 70 SCFM

REQ'D NUMBER OF DIFFUSERS = 1.1 DIFFUSERS

PROVIDE 10 2-INCH DIFFUSERS RATED AT 7.7 SCFM EACH
WITH SHEAR TUBES FOR ENHANCED MIXING

FEED CHANNEL:

BASIN WIDTH = 5 FEET
BASIN LENGTH = 17 FEET
SIDE WATER DEPTH = 18 FEET

FEED CHANNEL BASIN VOLUME = 1530 CU FT

HRT AT DESIGN AVERAGE FLOW = 4.68 MIN
HRT AT PEAK FLOW = 2.38 MIN

PROVIDE 20 SCFM PER 1000 CUBIC FEET OF BASIN VOLUME

AERATION REQUIRED = 30.6 SCFM

DIFFUSER SIZE = 1 INCH M.S. DIFFUSER
NOMINAL AIRFLOW PER 2-INCH DIFFUSER = 10 SCFM

REQ'D NUMBER OF DIFFUSERS = 3.1 DIFFUSERS

PROVIDE 4 2-INCH DIFFUSERS RATED AT 7.7 SCFM EACH
WITH SHEAR TUBES FOR ENHANCED MIXING

ULTIMATE FEED CHANNEL:

BASIN WIDTH = 5 FEET
BASIN LENGTH = 136 FEET
SIDE WATER DEPTH = 18 FEET

FEED CHANNEL BASIN VOLUME = 12240 CU FT

HRT AT DESIGN AVERAGE FLOW = 36.82 MIN
HRT AT PEAK FLOW = 19.07 MIN

PROVIDE 25 SCFM PER 1000 CUBIC FEET OF BASIN VOLUME

AERATION REQUIRED = 306 SCFM

DIFFUSER SIZE = 1 INCH M.S. DIFFUSER
NOMINAL AIRFLOW PER 2-INCH DIFFUSER = 10 SCFM

REQ'D NUMBER OF DIFFUSERS = 30.6 DIFFUSERS

PROVIDE 18 2-INCH DIFFUSERS RATED AT 17.0 SCFM EACH
WITH SHEAR TUBES FOR ENHANCED MIXING

PROJECT:

Waller County MUD No. 46
0.18 MGD WWTP PHASE I
0.72 MGD ULTIMATE PHASE FLOW

CHLORINE CONTACT BASIN

05/29/24

PROJECT REQUIREMENTS:

Calculations are for each 0.18 MGD Train

FLOW CONDITIONS:

AVERAGE DAILY FLOW = 0.18 MGD = 125.00 GPM
PEAKING FACTOR = 4
PEAK 2-HOUR FLOW = 0.72 MGD = 500.00 GPM

DESIGN REQUIREMENTS:

MINIMUM VOLUME REQ'D FOR 20 MINUTE DETENTION AT PEAK 2-HOUR FLOW

MINIMUM VOL REQ'D = (PEAK 2-HR FLOW IN GPM) (20 MIN TIME) / (7.48 GAL / CU FT)
MINIMUM VOL REQ'D = 1,337 CF

ASSUME SIDE WATER DEPTH = 16 FEET
 AREA REQ'D = 83.56 SQ FT

AREA OF CORNER FROM CLARIFIER CALCS: 49.62 CF
AREA OF RECTANGLE AFTER CORNERS SUBTRACTED = 0.00 SQ FT
LENGTH OF RECTANGLE = CLARIFIER DIAMETER = 34.00 FT
WIDTH OF RECTANGLE = 0.00 FEET **SAY** 3 FEET

ACTUAL AREA OF RECTANGLE = 102.00 SF
 AREA OF ONE CORNER = 49.62 SF
TOTAL AREA PROVIDED = 201.24 SF

ACTUAL VOLUME PROVIDED = 3220 CU FT

CHLORINE BASIN DIMENSIONS: 3.00 FT WIDE, 34.00 FT LONG 16 FT SWD

ACTUAL DETENTION TIME = (VOL IN CF) * (7.48) / (PEAK FLOW IN GPM)
ACTUAL DETENTION TIME = 48 MINUTES

AERATION REQUIRED = 25 SCFM PER 1000 CU FT OF TANKAGE

AIR REQ'D = (25 SCFM) (VOLUME REQ'D) / 1000
AIR REQ'D = 80 SCFM

DETERMINE NUMBER OF AIR DIFFUSERS REQUIRED

SIZE OF DIFFUSERS = 1 INCH
 AIRFLOW PER DIFF = 10 SCFM PER DIFFUSER
NUMBER OF DIFF = (REQ'D SCFM) / (SCFM PER DIFFUSER) = 8.05
NUMBER OF DIFF = 12 1" SINGLE DROP DIFFUSERS REQ'D

ON 4" HEADER

PROJECT:Waller County MUD No. 46
0.18 MGD WWTP PHASE I**AEROBIC DIGESTER BASINS****5/29/2024****DESIGN REQUIREMENTS:****TWO (2) AEROBIC DIGESTER COMPLEXES WILL BE DESIGNED FOR
0.18 MGD EACH****FLOW CONDITIONS: (EACH TRAIN)**

AVERAGE DAILY FLOW	=	0.180	MGD	=	125 GPM
PEAKING FACTOR	=	4			
PEAK 2-HOUR FLOW	=	0.72	MGD	=	500 GPM

INFLUENT LOADINGS:

BOD	=	300	8.34	0.18	=	450 LBS/DAY
TSS	=	240	8.34	0.18	=	360 LBS/DAY
NH3	=	45	8.34	0.18	=	53 LBS/DAY

EFFLUENT LOADINGS:

BOD	=	7	MG/L
TSS	=	15	MG/L
NH3	=	2	MG/L

DESIGN CRITERIA:**PROCESS DESCRIPTION:**

SETTLED SLUDGE IS AIRLIFTED FROM THE CLARIFIER HOPPER TO ONE OF TWO (2)
AEROBIC DIGESTER BASINS.

AEROBIC DIGESTER DESIGN

TCEQ MINIMUM VOLUME REQ'D	=	20	CF/# BOD
TCEQ MINIMUM DETENTION TIME	=	40	DAYS SRT
DIGESTER SOLIDS	=	20,000	MG/L
VOLATILE SOLIDS REDUCTION	=	44%	METCALF AND EDDY (4TH EDITION)
MLVSS/MLSS RATIO	=	0.75	
TOTAL DAILY SOLIDS GENERATION	=	403	#/DAY
TOTAL SOLIDS AFTER DIGESTION	=	270	#/DAY
TCEQ REQUIRED VOLUME (LOADING)	=	8066	CF
TCEQ REQUIRED VOLUME (DETENTION)	=	8662	CF
ASSUME WATER DEPTH	=	18	FEET
DESIGN BASIN WIDTH	=	16.25	FEET
NUMBER OF BASINS	=	2	
REQUIRED BASIN LENGTH	=	13.79	FEET
USE LENGTH	=	15	FEET
DIGESTER VOLUME AVAILABLE	=	8775	CF
DIGESTER LOADING	=	22	CF/# BOD
DIGESTER SLUDGE RETENTION TIME	=	40.52	DAYS

DIGESTER TANK DESIGN:

AIR REQUIRED FOR DIGESTERS: 176 SCFM FOR TWO (2) DIGESTERS

AIR PER DIGESTER: 88 SCFM

SIZE OF DIFFUSERS = 1 INCH

AIRFLOW PER DIFF = 10 SCFM PER DIFFUSER

NUMBER OF DIFF = (REQ'D SCFM) / (SCFM PER DIFFUSER) = 8.775

NUMBER OF DIFF = 10 1" SINGLE DROP DIFFUSERS REQ'D (EACH BASIN)

USE TWENTY (20) 1" DIFFUSER DROP ASSEMBLIES: 4.4 SCFM EACH

USE 6" AND 4" AIR HEADERS

AIRLIFT PUMPS:

THICKENED SLUDGE AIRLIFTS (TSALP-1, TSALP-2)

PROVIDE 2 6-INCH DIAMETER AIRLIFT PUMPS, RATED AT 250 GPM WITH A NOMINAL AIR REQUIREMENT OF 20 SCFM

AIR SUMMARY:

	PER TRAIN	TOTAL
AEROBIC DIGESTERS	176	527 SCFM
AIRLIFT PUMPS	40	120 SCFM
TOTAL		647 SCFM

SIZE BLOWERS TO PROVIDE AIRFLOW FOR ULTIMATE FLOW WITH FOUR (4) UNITS INCLUDING ONE STANDBY
TWO BLOWERS SHALL BE FURNISHED FOR PHASE I AND ONE BLOWER IN EACH ADDITIONAL PHASE

PROCESS REQUIREMENTS:

THE PROCESS AERATION BLOWERS TO PROVIDE FOR THE FOLLOWING FOR PHASE I FLOW:

PLANT COMPONENT	EACH BASIN	DESIGN AIRFLOW	MAX AIRFLOW
Rapid Mix Basin	1	77	115
RAS AIRLIFT PUMPS	2	20 SCFM	30 SCFM
WAS AIRLIFT PUMPS	1	20 SCFM	30 SCFM
SCUM AIRLIFT PUMPS	1	10 SCFM	15 SCFM
FEED CHANNEL	1	31 SCFM	46 SCFM
PROCESS AERATION	1	496 SCFM	745 SCFM
CHLORINE CONTACT BASIN	1	80 SCFM	121 SCFM
DIGESTER BASINS	2	176 SCFM	263 SCFM
DIGESTER DECANT AIRLIFTS	2	10 SCFM	15 SCFM
TOTALS		919 SCFM	1379 SCFM

FURNISH TWO (2) P.D.S DESIGNED TO OPERATE ON VFDs
919 SCFM DESIGN, 1379 SCFM MAX @ 8.44 PSIG

INSTALL TWO BLOWERS IN PHASE I 1500 SCFM EACH
ADD THIRD UNIT IN PHASE II
ADD FOURTH AND FIFTH UNIT IN ULTIMATE PHASE

Blower Requirements	PD Positive Displacement
Blower Type (CF or PD)	
Blower Header Diameter	10 in
Length of Air Bridge	165 ft
Air Diffuser Submergence	17 ft
Static Head on Air Diffusers	7.36 psi
Intake Losses	0.50 psi
Blower Header Friction Losses	0.04 psi
Air Bridge Friction Losses	0.03 psi
Air Drop Losses (1" air drops)	0.11 psi
5% Factor of Safety	0.40 psi
Total Differential Pressure Loss	8.44 psi
Approximate Blower Power Required	62.1 HP

THE PROCESS AERATION BLOWERS TO PROVIDE FOR THE FOLLOWING FOR ULTIMATE FLOW:

PLANT COMPONENT	EACH BASIN	DESIGN AIRFLOW	MAX AIRFLOW
Rapid Mix Basin	1	77	115
RAS AIRLIFT PUMPS	6	10	60 SCFM
WAS AIRLIFT PUMPS	3	20	60 SCFM
SCUM AIRLIFT PUMPS	3	10	30 SCFM
FEED CHANNEL	1	306	306 SCFM
PROCESS AERATION	3	496	1489 SCFM
CHLORINE CONTACT BASIN	3	80	241 SCFM
DIGESTER BASINS	6	88	527 SCFM
DIGESTER DECANT AIRLIFTS	6	5	30 SCFM
TOTALS		2820 SCFM	4229 SCFM

FURNISH FOUR (4) P.D.S DESIGNED TO OPERATE ON VFDs, WITH ONE (1) SERVING AS BACK UP
940 SCFM DESIGN, 1410 SCFM MAX @ 8.44 PSIG

Chlorine Gas Disinfection (Ultimate Phase)

Chlorine Dosage

Q_{peak} 0.72 MGD

Chlorine [] 8 mg/l

PPD Cl 48.0 lbs/day

Max Gas Withdrawl Rate

TA - Lowest Ambient Temp 40 F

T_{th} - Threshold Temp 0 F

F - Withdrawl Factor 1 lb/F/day

W_g - Max Gas Withdrawl Rate 40 lbs/day

Minimum Cylinders Required

PPD Cl 48.0 lbs/day

W_g 40 lbs/day

Cyl - min # of cylinders 2.0 150lb

Chlorine Bleach Disinfection

NaOCl Concentration (%) 12.5%

PPD 48.0 lbs/day of Cl₂C 1.0425 lbs of available Cl₂ (lb Cl₂/gal NaOCl)

R 1.92 chemical feed rate (gal/hr)

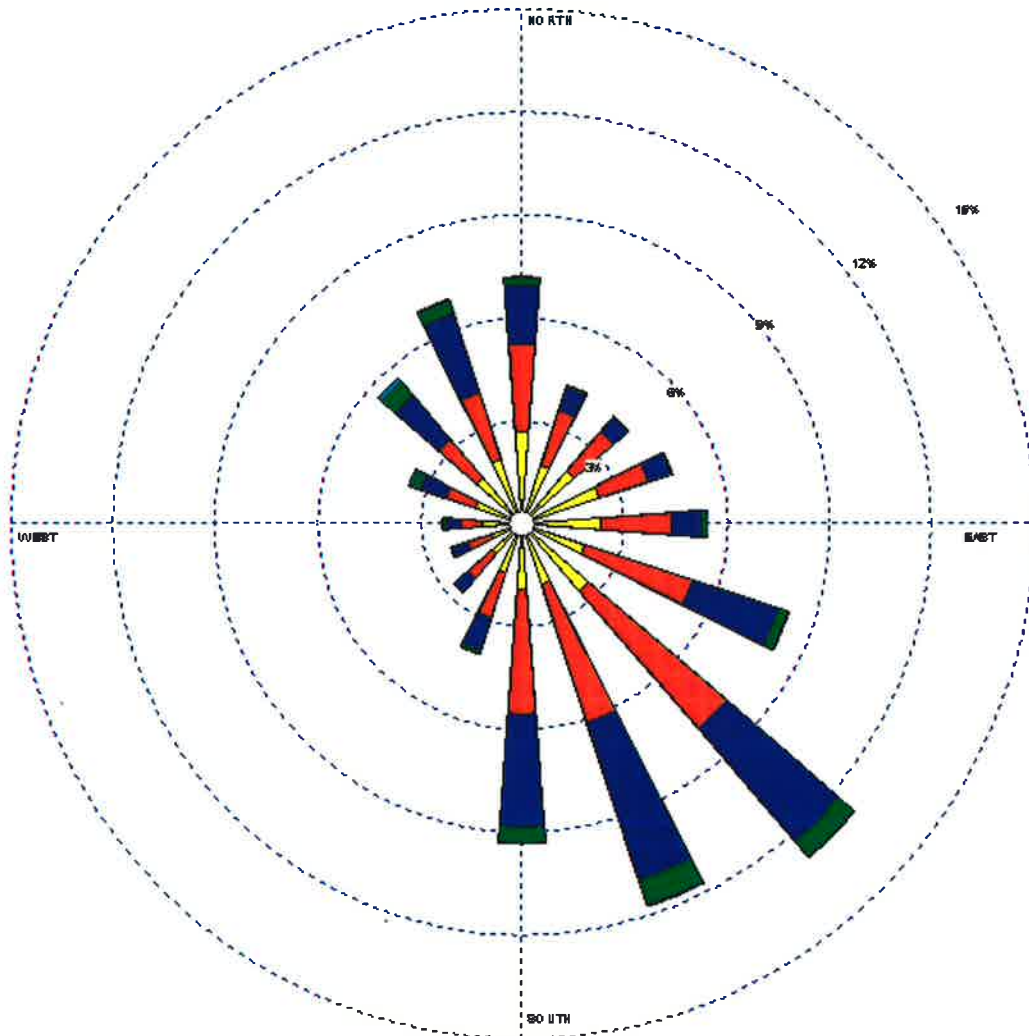
15 Day Storage Volume 691.2 gallons

Attachment 14 – Wind Rose

(Corresponds to Technical Report 1.1, Section 5.B, Page 23 of 66)

WIND ROSE PLOT

Station #12960 - HOUSTON/INTERCONTINENTAL ARPT, TX



Wind Speed (m/s) 	MODELER Sara West	DATE 8/29/2002	COMPANY NAME USDA-ARS
	DISPLAY Wind Speed	UNIT m/s	COMMENTS
	AVG. WIND SPEED 4.68 m/s	CALM WINDS 4.93%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATETIME 1961 Mar 1 - Mar 31 Midnight - 11 PM	

Attachment 15 – Solids Management Plan
(Corresponds to Technical Report 1.1, Section 7, Page 23 of 66)

Sludge Management Plan for Proposed WC MUD No. 46 WWTP

Influent Design Flow: Phase 1 - 0.18 MGD
Phase 2 - 0.36 MGD
Phase 3 - 0.72 MGD

Influent BOD Concentration: 300 mg/L

		cu. ft.	gal
Aerobic Digester Volume:	Phase 1:	8,775	65,637
	Phase 2:	17,550	131,274
	Phase 3:	35,100	262,548

Aeration Basin MLSS: 2,000 to 3,000 mg/L

Table 1 - Sludge Production (Phase 1)

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds Influent BOD5	451	338	225	113
Pounds of digested dry sludge produced*	158	118	79	39
Pounds of wet sludge produced	7,886	5,915	3,943	1,972
Gallons of wet sludge produced	940	705	470	235

Table 2 - Sludge Production (Phase 2)

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds Influent BOD5	901	676	451	225
Pounds of digested dry sludge produced*	315	237	158	79
Pounds of wet sludge produced	15,773	11,830	7,886	3,943
Gallons of wet sludge produced	1,880	1,410	940	470

Table 3 - Sludge Production (Phase 3)

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds Influent BOD5	1,803	1,352	901	451
Pounds of digested dry sludge produced*	631	473	315	158
Pounds of wet sludge produced	31,546	23,659	15,773	7,886
Gallons of wet sludge produced	3,760	2,820	1,880	940

* Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD5 at average temperatures and 2.0% solids concentration in the digester.

Sludge will be wasted from the RAS flow stream to the aerobic digester. Sludge solids will be stabilized in the digester; supernatant will be decanted from the digester and returned to the facility headworks for treatment.

Table 3 - Sludge Removal Schedule

Removal Schedule (Days)	100% Flow	75% Flow	50% Flow	25% Flow
Days between Sludge Removal (Phase 1)	70	93	140	279
Days between Sludge Removal (Phase 2)	70	93	140	279
Days between Sludge Removal (Phase 3)	70	93	140	279

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required. In phase 1, the calculated mean cell residence time (MCRT) for the digester storage volume of 65,637 gal will be approximately 70 days at 100% capacity and annual average digested sludge production of 158 ppd. In phase 2, the calculated mean cell residence time (MCRT) for the digester storage volume of 131,274 gal will be approximately 70 days at 100% capacity and annual average digested sludge production of 315 ppd. In phase 3, the calculated mean cell residence time (MCRT) for the digester storage volume of 262,548 gal will be approximately 70 days at 100% capacity and annual average digested sludge production of 631 ppd. The digested sludge will be transported by a registered hauler to be determined.