



Administrative 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. Application materials



Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
 - Inglés
 - Idioma alternativo (español)
2. Primer aviso (NORI, el Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
 - Inglés
 - Idioma alternativo (español)
3. Solicitud original

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in [30 Texas Administrative Code §39.426](#), **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package.** For your convenience, a Spanish template has been provided below.

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

DOMESTIC WASTEWATER

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

City of Denton (CN 600358980) proposes to operate Clear Creek Water Reclamation Plant (RN103935516). a membrane bioreactor process plant scheme. The facility will be located approximately 9,200 ft east of Farm-to-Market Road 428 and 1,800 ft northwest of Hartlee Field, in Denton, Denton County, Texas 76208.

Major amendment application to discharge 10 MGD design flow of treated domestic water.

Discharges from the facility are expected to contain five-day biochemical oxygen demand (BOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-H), phosphorus (P), and dissolved oxygen (DO). Domestic wastewater will be treated by *a membrane bioreactor process plant and the treatment units will include bar screens, grit chambers, primary clarifiers, anaerobic basins, anoxic basins, aerobic submerged membrane unit basins, anaerobic digesters, and ultraviolet (UV) disinfection.*

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

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

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

La Ciudad de Denton, Texas (CN600358980) propone operar Clear Creek Water Reclamation plant RN103935516, un bioreactor de membranas. La instalación estará ubicada en aproximadamente 9,200 pies al este de la calle Farm-to-Market 428 y a 1,800 pies noroeste de la calle Harlee Field, en la ciudad de Denton, Texas, Condado de Denton, Texas 76208. Esta es la aplicacion para una enmienda mayor para descargar 10 millones de galones de agua domestica tratada al dia .

Se espera que las descargas de la instalación contengan demandas bioquimicas de oxigeno de 5 dias (DBO), solidos suspendidos totales, nitrogeno ammoniacal, fosforo y oxigeno disuelto. Aguas residuales domesticas. **estará** tratado por un bioreactor de membranas que incluirea rejas de limpieza, desarenadores, clarificadores, cuencas anaerobicas, cuencas anoxicas, y cuencas aerobicas, membranas submergidas, digestores anaerobico y desinfeccion ultravioleta.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0014416001

APPLICATION. City of Denton, 1100 South Mayhill Road, Denton, Texas 76208, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014416001 (EPA I.D. No. TX0125628) to authorize an increase in the discharge of treated domestic wastewater to a volume not to exceed an annual average flow of 10,000,000 gallons per day. The domestic wastewater facility is located approximately 12,210 feet east of the intersection of East Sherman Drive and Hartlee Field Road, in the city of Denton, in Denton County, Texas 76208. The discharge route is from the plant site to a series of ponds; thence to Clear Creek; thence to Lewisville Lake. TCEQ received this application on May 1, 2024. The permit application will be available for viewing and copying at Pecan Creek Water Reclamation Plant, Administration Building, 1100 South Mayhill Road, Denton, 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=-97.065833,33.28&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 City of Denton at the address stated above or by calling Mr. Andrew Kanewske, P.E., Professional Engineer, at 817-349-2829.

Issuance Date: June 5, 2024

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0014416001

SOLICITUD. La ciudad de Denton, 1100 South Mayhill Road, Denton, Texas 76208 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para modificar el Permiso No. WQ0014416001 (EPA I.D. No. TX0125628) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) Autorizar un aumento en la descarga de aguas residuales domésticas tratadas a un volumen que no exceda un flujo promedio anual de 10,000,000 de galones por día. La instalación de aguas residuales domésticas está ubicada aproximadamente a 12,210 pies al este de la intersección de East Sherman Drive y Hartlee Field Road, en la ciudad de Denton, en el condado de Denton, Texas 76208. La ruta de descarga es desde el sitio de la planta hasta una serie de estanques, de allí a Clear Creek, de allí al lago Lewisville. La TCEQ recibió esta solicitud el 1 de mayo del 2024. La solicitud para el permiso estará disponible para leerla y copiarla en la planta de aguas tratadas de Pecan Creek dentro del edificio de administración en la calle 1100 South Mayhill en Denton, 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=-97.065833,33.28&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 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 de la ciudad de Denton, Texas a la dirección indicada arriba o llamando al Sr. Andrew Kanewske, P.E., Ingeniero Profesional, al 817-349-2829.

Fecha de emisión 5 de junio de 2024



April 29, 2024

Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC148)
P.O. Box 13087
Austin, Texas 78711-3087

RECEIVED

MAY 01 2024

**WATER QUALITY DIVISION
TCEQ**

RE: *Major Amendment Permit Application for the Clear Creek Water Reclamation Plant (WQ0014416001, RN103935516)*

Dear Water Quality Team:

This letter serves to transmit the major amendment application for the Clear Creek Water Reclamation Plant.

The permit application follows this letter within the following attachments:

- Attachment A: Administrative Report 1.0
- Attachment B: Administrative Report 1.1
- Attachment C: SPIF
- Attachment D: TCEQ Core Data Form
- Attachment E: Domestic Technical Report 1.0
- Attachment F: Domestic Technical Report 1.1
- Attachment G: Domestic Technical Worksheet 2.0
- Attachment H: Domestic Technical Worksheet 2.1
- Attachment I: Domestic Technical Worksheet 6.0
- Attachment J: Original USGS Map
- Attachment K: Affected Landowners Map
- Attachment L: Landowner List and Labels
- Attachment M: Buffer Zone Map
- Attachment N: Process Flow Diagram
- Attachment O: Site Drawing
- Attachment P: Original Photographs and Plot Plan
- Attachment Q: Design Calculations and Features
- Attachment R: Solids Management Plan
- Attachment S: Wind Rose
- Attachment T: Public Involvement Plan Form
- Attachment U: Sewage Sludge Technical Report
- Attachment V: Sludge Treatment Process Information



Attachment W: Denton County Map

Attachment X: Composting Facility Site Operation Plan

Attachment Y: Copy of Permit Payment Voucher

Attachment Z: City Ordinance

If you have any questions regarding this project, please contact me at 817-349-2829.

Sincerely,
KIMLEY-HORN AND ASSOCIATES, INC.
Texas Firm No. 928

A handwritten signature in black ink, appearing to read "Andrew Kanewske", written in a cursive style.

Andrew Kanewske, P.E. (Texas License No. 145305)

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) (Required for all applications types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)	<input checked="" type="checkbox"/>		Yes
Correct and Current Industrial Wastewater Permit Application Forms (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)	<input checked="" type="checkbox"/>		Yes
Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)	<input checked="" type="checkbox"/>		Yes
7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)	<input checked="" type="checkbox"/>		Yes
Current/Non-Expired, Executed Lease Agreement or Easement Attached	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/> Yes
Landowners Map (See instructions for landowner requirements)	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes

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 (See instructions for landowner requirements)	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes
Landowners Labels or USB Drive attached (See instructions for landowner requirements)	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes
Original signature per 30 TAC § 305.44 – Blue Ink Preferred (If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)	<input checked="" type="checkbox"/>		Yes

ATTACHMENT A:
ADMINISTRATIVE REPORT 1.0



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
DOMESTIC WASTEWATER PERMIT APPLICATION
CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: City of Denton

PERMIT NUMBER: WQ0014416001

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

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT

ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 29)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <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 type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input checked="" type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number: N/A
Check/Money Order Amount: N/A
Name Printed on Check: N/A

EPAY Voucher Number: 694886

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 29)

- | | |
|---|---|
| <input type="checkbox"/> New TPDES | <input type="checkbox"/> New TLAP |
| <input checked="" type="checkbox"/> Major Amendment <u>with</u> Renewal | <input type="checkbox"/> Minor Amendment <u>with</u> Renewal |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal |
| <input type="checkbox"/> Renewal without changes | <input type="checkbox"/> Minor Modification of permit |

For amendments or modifications, describe the proposed changes: Changing facility to a 2.5, 5.0, and 10.0 MGD membrane bioreactor system over 3 phases.

For existing permits:

Permit Number: WQ0014416001

EPA I.D. (TPDES only): TX0125628

Expiration Date: April 5, 2027

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

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

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

City of Denton

(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: 600358980

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

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

First and Last Name: Sara Hensley

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

Title: City Manager

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

N/A

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

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

CN: N/A

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

Prefix (Mr., Ms., Miss): N/A

First and Last Name: N/A

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

Title: N/A

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

C. Core Data Form

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

Attachment: Attachment D: TCEQ Core Data Form

Section 4. Application Contact Information (Instructions Page 30)

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

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

First and Last Name: William "Rusty" Willard

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

Title: Water Reclamation Superintendent

Organization Name: City of Denton

Mailing Address: 1100 S Mayhill Rd

City, State, Zip Code: Denton, TX 76208

Phone No.: 940-349-8601 Ext.: N/A Fax No.: N/A

E-mail Address: rusty.willard@cityofdenton.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

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

First and Last Name: Andrew Kanewske

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

Title: Professional Engineer

Organization Name: Kimley-Horn

Mailing Address: 801 Cherry Street, Suite 1300, Unit 11

City, State, Zip Code: Fort Worth, TX 76102

Phone No.: 817-349-2829 Ext.: N/A Fax No.: N/A

E-mail Address: Andrew.Kanewske@kimley-horn.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: William "Rusty" Willard
Credential (P.E, P.G., Ph.D., etc.): N/A
Title: Water Reclamation Superintendent
Organization Name: City of Denton
Mailing Address: 1100 S Mayhill Rd.
City, State, Zip Code: Denton, TX 76208
Phone No.: 940-349-8601 Ext.: N/A Fax No.: N/A
E-mail Address: rusty.willard@cityofdenton.com

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

First and Last Name: Jerry Lilley
Credential (P.E, P.G., Ph.D., etc.): N/A
Title: Water Reclamation Operations Manager
Organization Name: City of Denton
Mailing Address: 1100 S Mayhill Rd
City, State, Zip Code: Denton, TX 76208
Phone No.: 940-349-8662 Ext.: N/A Fax No.: N/A
E-mail Address: jerry.lilley@cityofdenton.com

Section 6. Billing Information (Instructions Page 30)

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

Prefix (Mr., Ms., Miss): Mr.
First and Last Name: William "Rusty" Willard
Credential (P.E, P.G., Ph.D., etc.): N/A
Title: Water Reclamation Superintendent
Organization Name: City of Denton
Mailing Address: 1100 S Mayhill Rd
City, State, Zip Code: Denton, TX 76208
Phone No.: 940-349-8601 Ext.: N/A Fax No.: N/A
E-mail Address: rusty.willard@cityofdenton.com

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

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

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

First and Last Name: Marcos Diosdado

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

Title: Lab Manager

Organization Name: City of Denton

Mailing Address: 1100 S Mayhill Rd

City, State, Zip Code: Denton, TX 76208

Phone No.: 940-349-8615 Ext.: N/A Fax No.: N/A

E-mail Address: marcos.diosdado@cityofdenton.com

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

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

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Andrew Kanewske

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

Title: Professional Engineer

Organization Name: Kimley-Horn

Mailing Address: 801 Cherry Street, Suite 1300, Unit 11

City, State, Zip Code: Fort Worth, TX 76102

Phone No.: 817-349-2829 Ext.: N/A Fax No.: N/A

E-mail Address: Andrew.Kanewske@kimley-horn.com

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Andrew Kanewske

Credential (P.E, P.G., Ph.D., etc.): P.E.
Title: Professional Engineer
Organization Name: Kimley-Horn
Phone No.: 817-349-2829 Ext.: N/A
E-mail: Andrew.Kanewske@kimley-horn.com

D. Public Viewing Information

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

Public building name: Pecan Creek Water Reclamation Plant, Administration Building
Location within the building: Foyer
Physical Address of Building: 1100 South Mayhill Road
City: Denton County: Denton County
Contact Name: William "Rusty" Willard
Phone No.: 940-349-8601 Ext.: N/A

E. Bilingual Notice Requirements:

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

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

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

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

☒ Yes ☐ No

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

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

F. Public Involvement Plan Form

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

Attachment: Attachment T: Public Involvement Plan Form

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN103935516

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):

Clear Creek Water Reclamation Plant

C. Owner of treatment facility: City of Denton

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

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

Prefix (Mr., Ms., Miss): N/A

First and Last Name: City of Denton

Mailing Address: 901 Texas Street, Suite A

City, State, Zip Code: Denton, Texas 76209

Phone No.: 940-349-8601

E-mail Address: rusty.willard@cityofdenton.com

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

Attachment: N/A

E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss): N/A

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

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

Prefix (Mr., Ms., Miss): N/A

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 34)

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

☐ Yes ☒ No

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

The water reclamation plant will be located approximately 9,200 ft east of Farm-to-Market Road 428 and 1,800 ft northwest of Hartlee Field Road in Denton County, Texas.

- 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 point of discharge is approximately 8,500 ft east of Farm-to-Market Road 428 and 3,000 ft northwest of Hartlee Field Road in Denton County, Texas. Discharge enters into on-site finishing ponds, thence to the Clear Creek stream (0823C) thence flows into Elm Fork Trinity River (0823) thence into Lewisville Lake.

City nearest the outfall(s): City of Denton

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

Outfall Latitude: 33.279218

Longitude: -97.067088

- 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: N/A

- 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.

Dallas, Ellis, Henderson, Kaufman, and Navarro County.

Section 11. TLAP Disposal Information (Instructions Page 36)

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

☐ Yes ☐ No

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

N/A

- B. City nearest the disposal site: N/A

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

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

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

N/A

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

N/A

Section 12. Miscellaneous Information (Instructions Page 37)

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

☐ Yes ☒ No

B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

N/A

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

☒ Yes ☐ No

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

Christopher Mullins

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 38)

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

- ☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- ☒ Original full-size USGS Topographic Map with the following information:
 - Applicant's property boundary
 - Treatment facility boundary
 - Labeled point of discharge for each discharge point (TPDES only)

- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify:

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WO0014416001

Applicant: City of Denton

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): Sara Hensley

Signatory title: City Manager

Signature: _____ Date: 4/17/24
(Use blue ink)

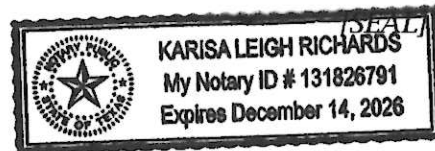
Subscribed and Sworn to before me by the said City Manager
on this 17th day of April, 2024.
My commission expires on the 14th day of December, 2026.

Karisa Leigh Richards

Notary Public

Denton

County, Texas



Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in [30 Texas Administrative Code §39.426](#), **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package.** For your convenience, a Spanish template has been provided below.

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

DOMESTIC WASTEWATER

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

City of Denton (CN 600358980) proposes to operate Clear Creek Water Reclamation Plant (RN103935516). a membrane bioreactor process plant scheme. The facility will be located approximately 9,200 ft east of Farm-to-Market Road 428 and 1,800 ft northwest of Hartlee Field, in Denton, Denton County, Texas 76208.

Major amendment application to discharge 10 MGD design flow of treated domestic water.

Discharges from the facility are expected to contain five-day biochemical oxygen demand (BOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-H), phosphorus (P), and dissolved oxygen (DO). Domestic wastewater will be treated by *a membrane bioreactor process plant and the treatment units will include bar screens, grit chambers, primary clarifiers, anaerobic basins, anoxic basins, aerobic submerged membrane unit basins, anaerobic digesters, and ultraviolet (UV) disinfection.*

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

AGUAS RESIDUALES DOMÉSTICAS

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

1. Introduzca el nombre del solicitante aquí. (2. Introduzca el número de cliente aquí (es decir, CN6 #####).) 3. Elija del menú desplegable. 4. Introduzca el nombre de la instalación aquí. 5. Introduzca el número de entidad regulada aquí (es decir, RN1 #####). 6. Elija del menú desplegable. 7. Introduzca la descripción de la instalación aquí. . La instalación 8. Elija del menú desplegable. ubicado 9. Introduzca la ubicación aquí. , en 10. Introduzca el nombre de la ciudad aquí. , Condado de 11. Introduzca el nombre del condado aquí. , Texas 12. Introduzca el código postal aquí. . 13. Introduzca el resumen de la solicitud de solicitud aquí. <<Para las aplicaciones de TLAP incluya la siguiente oración, de lo contrario, elimine:>> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable. tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

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. La ciudad de Denton (CN 600358980) propone operar la planta de tratamiento de aguas residuales Clear Creek (RN 103935516). La planta operara utilizando el proceso del reactor biológico con membranas. La planta estará localizada aproximadamente a 9,200 pies al este de la calle Farm to Market 428 y 1,800 pies al noroeste del campo Hartlee, en la ciudad de Denton, en el condado de Denton, Texas 76208.

Enmienda mayor para descargar 10 millones de galones de agua residual tratada por día basados en el flujo de diseño.

Se espera que descargas de esta planta tendrán materia orgánica carbonosa del agua residual basada en 5 días (BOD5), solidos suspendidos totales (TSS), amoníaco-nitrógeno (NH3-N), fosforo (P), y oxígeno disuelto (DO). El agua residual domestica será tratada por una planta que utilice el proceso del reactor biológico con membranas, y los equipos de tratamiento incluirán pantallas de barra, tanques clarificadores primarios, tanques anaeróbicos, tanques anoxicos, tanques de membranas aerobicas, digestión anaeróbica, y desinfección ultravioleta.

ATTACHMENT B:
ADMINISTRATIVE REPORT 1.1

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

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

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

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

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

- ☐ USB Drive ☒ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Denton 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):

N/A

Section 2. Original Photographs (Instructions Page 44)

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

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

Section 3. Buffer Zone Map (Instructions Page 44)

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

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

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

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

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

- ☒ Yes ☐ No

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ☐ Renewal ☐ Major Amendment ☐ Minor Amendment ☐ New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

☐ Texas Historical Commission

☐ U.S. Fish and Wildlife

☐ Texas Parks and Wildlife Department

☐ U.S. Army Corps of Engineers

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

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee: City of Denton

Permit No. WQ00 14416001

EPA ID No. TX 0125628

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

The water reclamation plant will be located approximately 9,200 ft east of Farm-to-Market Road 428 and 1,800 ft northwest of Hartlee Field Road in Denton County, Texas.

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

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

First and Last Name: Rusty Willard

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

Title: Water Reclamation Superintendent

Mailing Address: 1100 S Mayhill Rd

City, State, Zip Code: Denton, TX 76208

Phone No.: 940-349-8601 Ext.: N/A Fax No.: N/A

E-mail Address: rusty.willard@cityofdenton.com

2. List the county in which the facility is located: Denton 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 point of discharge is approximately 8,500 ft east of Farm-to-Market Road 428 and 3,000 ft northwest of Hartlee Field Road in Denton County, Texas. Discharge enters into on-site finishing ponds, thence to the Clear Creek stream (0823C) thence flows into Elm Fork Trinity River (0823) thence into Lewisville Lake.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

The construction impact can ultimately affect 9.4 acres of mostly surface disturbance with an approximate maximum depth of excavation of 30 ft.

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

No disturbances. Vegetation includes trees and shrubbery. The land is used for public trails.

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

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

No current buildings or structures are located on the property.

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

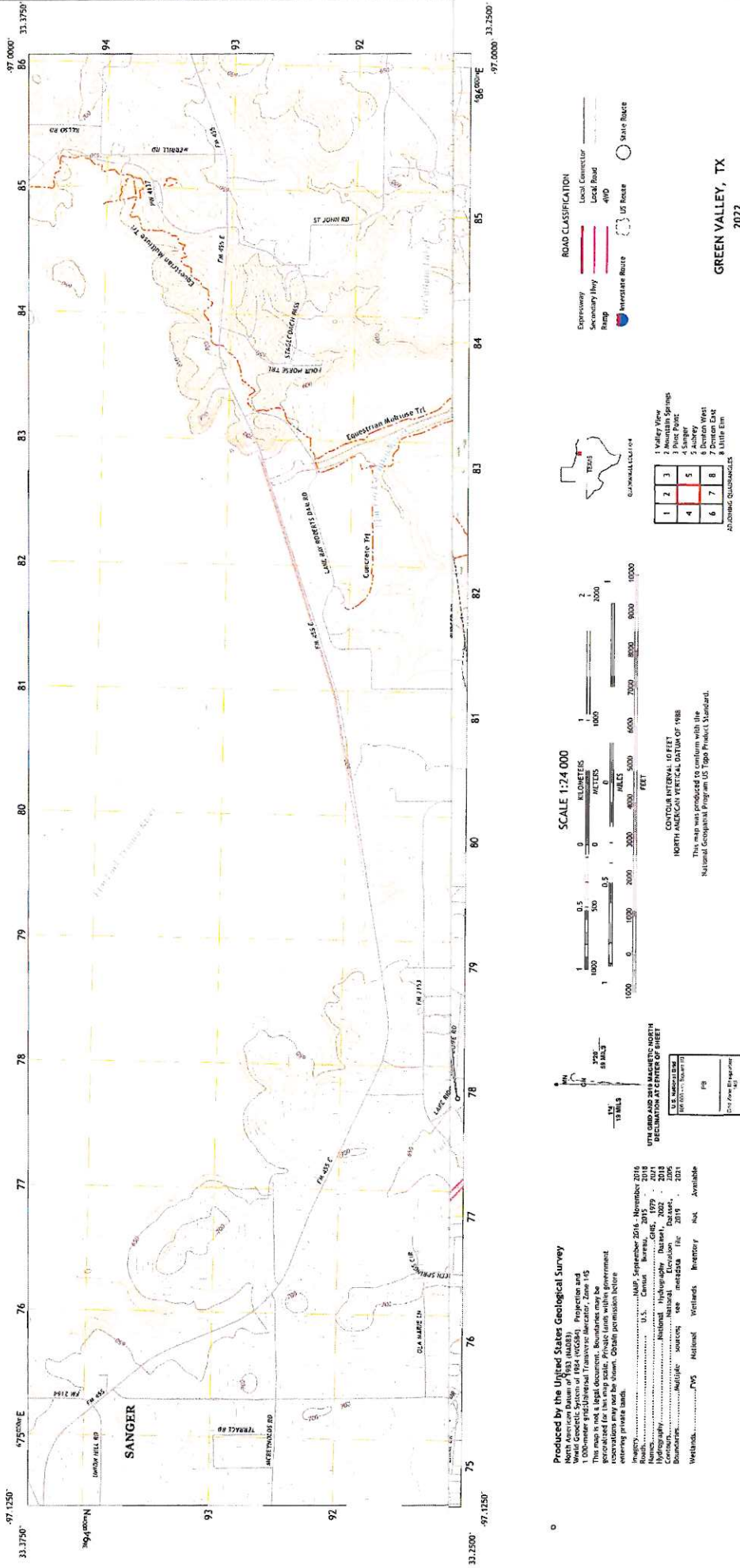
History of property not known.



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



GREEN VALLEY QUADRANGLE
TEXAS - DENTON COUNTY
7.5-MINUTE SERIES



DATE: FEBRUARY 2024

DESIGN: SDS

DRAWN: STP

CHECKED: AKK

KHA NO: 061024076

CLEAR CREEK WATER RECLAMATION PLANT DOMESTIC WASTEWATER PERMIT RENEWAL USGS MAP



Kimley»Horn

ATTACHMENT D:
TCEQ CORE DATA FORM



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 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 checked="" type="checkbox"/> Other Major Amendment with Renewal
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 600358980		RN 103935516

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		02/29/2024	
<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>	
City of Denton					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	
N/A		N/A		TX0125628	
10. DUNS Number (if applicable)					
N/A					
11. Type of Customer:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
Government: <input checked="" 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		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
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 type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" 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:					
1100 S. Mayhill Rd.					
City: Denton State: TX ZIP: 76208 ZIP + 4:					
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				rusty.willard@cityofdenton.com	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

SECTION III: Regulated Entity Information

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

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

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

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

Clear Creek Water Reclamation Plant

23. Street Address of the Regulated Entity:

(No PO Boxes)

City

State

ZIP

ZIP + 4

24. County

Denton County

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

25. Description to

Physical Location:

The water reclamation plant will be located approximately 9,200 ft east of Farm-to-Market Road 428 and 1,800 ft northwest of Hartlee Field Road in Denton County, Texas.

26. Nearest City

State

Nearest ZIP Code

Denton

TX

76208

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

27. Latitude (N) In Decimal:

33.279218

28. Longitude (W) In Decimal:

-97.067088

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

33

16

47.28

97

3

58.68

29. Primary SIC Code

30. Secondary SIC Code

31. Primary NAICS Code

32. Secondary NAICS Code

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4952

221320

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

Treatment of domestic wastewater.

34. Mailing

901 Texas Street

Suite A

Address:

City

Denton

State

TX

ZIP

76209

ZIP + 4

4354

35. E-Mail Address:

rusty.willard@cityofdenton.com

36. Telephone Number

37. Extension or Code

38. Fax Number (if applicable)

(940) 349-8601

() -

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

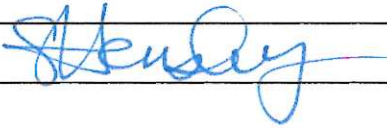
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review 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:
	WQ0014416001			

SECTION IV: Preparer Information

40. Name:	Andrew Kanewske		41. Title:	Professional Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(817) 349-2829		() -	andrew.kanewske@kimley-horn.com	

SECTION V: Authorized Signature

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

Company:	City of Denton	Job Title:	City Manager
Name (In Print):	Sara Hensley	Phone:	(940) 349- 8307
Signature:		Date:	4/17/24

ATTACHMENT E:
DOMESTIC TECHNICAL REPORT 1.0



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
DOMESTIC WASTEWATER PERMIT APPLICATION

DOMESTIC TECHNICAL REPORT 1.0

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 2.5

2-Hr Peak Flow (MGD): 10.0

Estimated construction start date: Spring 2025

Estimated waste disposal start date: Spring 2028

B. Interim II Phase

Design Flow (MGD): 5.0

2-Hr Peak Flow (MGD): 20.0

Estimated construction start date: Not known

Estimated waste disposal start date: Not known

C. Final Phase

Design Flow (MGD): 10.0

2-Hr Peak Flow (MGD): 40.0

Estimated construction start date: Not known

Estimated waste disposal start date: Not known

D. Current operating phase: N/A

Provide the startup date of the facility: N/A

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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

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

Interim Phase 1: Raw wastewater will enter the headworks. The headworks will consist of coarse screens, grit chambers, and fine screens. Flow will then enter the two (2) primary clarifiers. Flow will then enter secondary treatment, consisting of four (4) MBR Trains. In each of the MBR trains, flow will go from the anoxic basin to anaerobic basin, then pre-aeration basin, and finally to the membrane basin. Flow will then be treated with UV disinfection before discharge. Wasting will occur in the primary clarifier and the membrane basin. Solids will enter two (2) anaerobic digesters before being dewatered with centrifuges. After dewatering solids will be composted.

Interim Phase 2: Raw wastewater will enter the headworks. The headworks will consist of coarse screens, grit chambers, and fine screens. Flow will then enter the two (2) primary clarifiers. Flow will then enter secondary treatment, consisting of eight (8) MBR Trains. In each of the MBR trains, flow will go from the anoxic basin to anaerobic basin, then pre-aeration basin, and finally to the membrane basin. Flow will then be treated with UV disinfection before discharge. Wasting will occur in the primary clarifier and the membrane basin. Solids will enter two (2) anaerobic digesters before being dewatered with centrifuges. After dewatering solids will be composted.

Final Phase 3: Raw wastewater will enter the headworks. The headworks will consist of coarse screens, grit chambers, and fine screens. Flow will then enter the four (4) primary clarifiers. Flow will then enter secondary treatment, consisting of sixteen (16) MBR Trains. In each of the MBR trains, flow will go from the anoxic basin to anaerobic basin, then pre-aeration basin, and finally to the membrane basin. Flow will then be treated with UV disinfection before discharge. Wasting will occur in the primary clarifier and the membrane basin. Solids will enter two (2) anaerobic digesters before being dewatered with centrifuges. After dewatering solids will be composted.

Port or pipe diameter at the discharge point, in inches: 42 in.

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) Or (Diameter x D)
Phase 1		
Primary Clarifier	2	110' Ø x 15' x 13' SWD
Anoxic Basin	4	40' x 9' x 15' x 13' SWD
Anaerobic Basin	4	38' x 9' x 15' x 13' SWD
Pre-Aeration Basin	4	152' x 9' x 15' x 13' SWD
Membrane Basin	4	46' x 9' x 15' x 13' SWD
Anaerobic Digester	2	90' Ø x 21' x 19' SWD
Phase 2		
Primary Clarifier	2	110' Ø x 15' x 13' SWD
Anoxic Basin	8	40' x 9' x 15' x 13' SWD
Anaerobic Basin	8	38' x 9' x 15' x 13' SWD
Pre-Aeration Basin	8	152' x 9' x 15' x 13' SWD
Membrane Basin	8	46' x 9' x 15' x 13' SWD
Anaerobic Digester	2	90' Ø x 21' x 19' SWD
Phase 3		
Primary Clarifier	4	110' Ø x 15' x 13' SWD
Anoxic Basin	16	40' x 9' x 15' x 13' SWD
Anaerobic Basin	16	38' x 9' x 15' x 13' SWD
Pre-Aeration Basin	16	152' x 9' x 15' x 13' SWD
Membrane Basin	16	46' x 9' x 15' x 13' SWD
Anaerobic Digester	2	90' Ø x 21' x 19' SWD

C. Process flow diagrams

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

Attachment: Attachment N: Process Flow Diagram

Section 3. Site Drawing (Instructions Page 52)

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

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

Attachment: Attachment O: Site Drawing

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

The Clear Creek Water Reclamation Plant will service the Clear Creek Wastewater Basin within the City of Denton. The basin covers approximately 39,400 acres. Land use by acreage is projected to be 620 for agricultural, 1,050 for commercial, 1,260 for industrial, 1,280 for public spaces/government, 20 for religious spaces, 5,670 for residential and 2,000 for rural application per the 2023 City of Denton Wastewater Masterplan.

Section 4. Unbuilt Phases (Instructions Page 52)

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

Yes ☒ No ☐

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

Yes ☒ No ☐

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

Clear Creek wastewater basin currently has no treatment capacity for wastewater. All flows for the basin are currently on septic and with planned growth for the area treatment capacity is needed for development. Denton will also alleviate surrounding basins by sending flow to Clear Creek Water Reclamation Plant.

Section 5. Closure Plans (Instructions Page 53)

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

Yes ☐

No ☒

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

Yes ☐

No ☒

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 53)

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

A. Summary transmittal

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

Yes ☐

No ☒

If yes, provide the date(s) of approval for each phase: N/A

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

Yes ☒

No ☐

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

Ownership.

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.

N/A

3. Grit disposal

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

Yes ☐ No ☐

If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

N/A

4. Grease and decanted liquid disposal

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.

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

N/A

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 N/A or TXRNE N/A

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:

N/A

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.

N/A

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.

N/A

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.

N/A

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance

with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

Yes ☐ No ☒

If yes, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.

G. Other wastes received including sludge from other WWTPs and septic waste

1. Acceptance of sludge from other WWTPs

Does the facility accept or will it accept sludge from other treatment plants at the facility site?

Yes ☒ No ☐

If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.

In addition, provide the date that the plant started accepting sludge or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the 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.

Monthly sludge acceptance and BOD₅ to be determine at later date.
Acceptance of sludge from other WWTPs is anticipated to begin in Spring 2028. (Sewage Sludge Solids Management Plan not attached due to sludge acceptance and BOD₅ being unknown).

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Yes ☐ No ☒

If **yes to any of the above**, provide a the date that the plant started accepting septic waste, or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

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

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

Yes ☐ No ☒

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

N/A

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

Is the facility in operation?

Yes ☐ No ☒

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l					
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, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

*TPDES permits only

†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					

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

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: William R. Willard

Facility Operator's License Classification and Level: Class A WW license

Facility Operator's License Number: WW0000580

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

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the following list. Check all that apply.

- ☒ Permitted landfill
- ☐ Permitted or Registered land application site for beneficial use
- ☐ Land application for beneficial use authorized in the wastewater permit
- ☐ Permitted sludge processing facility
- ☒ Marketing and distribution as authorized in the wastewater permit
- ☒ Composting as authorized in the wastewater permit
- ☐ Permitted surface disposal site (sludge monofill)
- ☐ Surface disposal site (sludge monofill) authorized in the wastewater permit

- ☒ Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.

☐ Other:

B. Sludge disposal site

Disposal site name: City of Denton Pecan Creek Water Reclamation Plant

TCEQ permit or registration number: WQ0010027003

County where disposal site is located: Denton County

C. Sludge transportation method

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

Name of the hauler: City of Denton Solid Waste

Hauler registration number: 24746

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge

processing, storage or disposal options?

Sludge Composting Yes ☐ No ☒

Marketing and Distribution of sludge Yes ☐ No ☒

Sludge Surface Disposal or Sludge Monofill Yes ☐ No ☒

Temporary storage in sludge lagoons Yes ☐ No ☒

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

Yes ☐ No ☐

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

Does this facility include sewage sludge lagoons?

Yes ☐ No ☒

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

A. Location information

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

- Original General Highway (County) Map:

Attachment: N/A

- USDA Natural Resources Conservation Service Soil Map:

Attachment: N/A

- Federal Emergency Management Map:

Attachment: N/A

- Site map:

Attachment: N/A

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: N/A

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:

N/A

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: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

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

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

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

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

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

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.

N/A

D. Site development plan

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

N/A

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

Attachment: N/A

- Copy of the closure plan

Attachment: N/A

- Copy of deed recordation for the site

Attachment: N/A

- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

Attachment: N/A

- Description of the method of controlling infiltration of groundwater and surface water from entering the site

Attachment: N/A

- Procedures to prevent the occurrence of nuisance conditions

Attachment: N/A

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: N/A

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 63)

A. Additional authorizations

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

Yes ☒ No ☐

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

Reuse Authorization #R10027-003

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:

N/A

Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

A. RCRA hazardous wastes

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

Yes ☐ No ☒

B. Remediation activity wastewater

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

Yes ☐ No ☒

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 64)

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

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

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

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

CERTIFICATION:

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

Printed Name: Sara Hensley

Title: City Manager

Signature: _____

Date: _____



ATTACHMENT F:
DOMESTIC TECHNICAL REPORT 1.1

DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

Section 1. Justification for Permit (Instructions Page 66)

A. Justification of permit need

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

Based on the 2023 City of Denton Wastewater Masterplan for the City of Denton, the permit renewal, expansion of capacity, and three planned phases are required. With the expected growth to reach approximately 12,000 developed acres, the City needs to have the treatment capacity to serve the growth and transition from septic. Clear Creek Water Reclamation Plant will also relieve flow from surrounding wastewater basins.

B. Regionalization of facilities

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

1. Municipally incorporated areas

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

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

Yes ☐ No ☐ Not Applicable ☒

If yes, within the city limits of: N/A

If yes, attach correspondence from the city.

Attachment: N/A

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: N/A

2. Utility CCN areas

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

Yes ☐ No ☒

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

Attachment: N/A

3. Nearby WWTPs or collection systems

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

Yes ☐ No ☒

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

Attachment: N/A

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

Attachment: N/A

Does a permitted domestic wastewater treatment facility or a collection system located within three (3) miles of the proposed facility currently have the capacity to accept or is willing to expand to accept the volume of wastewater proposed in this application?

Yes ☐ No ☒

If yes, attach an analysis of expenditures required to connect to a permitted wastewater treatment facility or collection system located within 3 miles versus the cost of the proposed facility or expansion.

Attachment: N/A

Section 2. Organic Loading (Instructions Page 67)

Is this facility in operation?

Yes ☐ No ☒

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): N/A

Average Influent Organic Strength or BOD₅ Concentration in mg/l: N/A

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): N/A

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

N/A

B. Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
Municipality	10	
Subdivision		
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park,		

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	10	
AVERAGE BOD ₅ from all sources		313.92

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 68)

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l: 1

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: 5

Other: N/A

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l: 1

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: 5

Other: N/A

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l: 1

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: 5

Other: N/A

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: 10 mg/l mg/l after 10 minutes detention time at peak flow

Dechlorination process: None

☒ Ultraviolet Light: 45 seconds contact time at peak flow

☐ Other: None

Section 4. Design Calculations (Instructions Page 68)

Attach design calculations and plant features for each proposed phase.

Example 4 of the instructions includes sample design calculations and plant features.

Attachment: Attachment Q: Design Calculations and Features

Section 5. Facility Site (Instructions Page 68)

A. 100-year floodplain

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

Yes ☒ No ☐

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

N/A

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

FEMA Flood Map Service Center. Reference firm 48121C0240G and 481210245G.

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: N/A

If **no**, provide the approximate date you anticipate submitting your application to the Corps: N/A

B. Wind rose

Attach a wind rose. **Attachment:** Attachment S: Wind Rose

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 69)

A. Beneficial use authorization

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

Yes ☐ No ☒

If **yes**, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)

Attachment: N/A

B. Sludge processing authorization

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

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

If **any of the above** sludge options are selected, attach a completed DOMESTIC WASTEWATER PERMIT APPLICATION: SEWAGE SLUDGE TECHNICAL REPORT (TCEQ Form No. 10056).

Attachment: Attachment U: Sewage Sludge Technical Report

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 69)

Attach a solids management plan to the application.

Attachment: Attachment R: Solids Management Plan

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

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

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

ATTACHMENT G:
DOMESTIC TECHNICAL WORKSHEET 2.0

DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

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

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

Yes ☐ No ☒

If yes, provide the following:

Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

Attach a USGS map that identifies the location of the intake.

Attachment: N/A

Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)

Does the facility discharge into tidally affected waters?

Yes ☐ No ☒

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: N/A

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).

N/A

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).

N/A

Section 3. Classified Segments (Instructions Page 73)

Is the discharge directly into (or within 300 feet of) a classified segment?

Yes ☐ No ☒

If yes, this Worksheet is complete.

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

Section 4. Description of Immediate Receiving Waters (Instructions Page 75)

Name of the immediate receiving waters: Clear Creek.

A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☒ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

Average depth of water body within a 500-foot radius of discharge point, in feet:

- ☐ Man-made Channel or Ditch

- ☐ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify: N/A

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: Personal observation

C. Downstream perennial confluences

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

N/A

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.

N/A

E. Normal dry weather characteristics

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

The stream is intermittent and dry with perennial pools during normal dry weather conditions.

Date and time of observation: 12/8/2023

Was the water body influenced by stormwater runoff during observations?

Yes ☐

No ☒

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

A. Upstream influences

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

☐ Oil field activities

☐ Urban runoff

☐ Upstream discharges

☒ Agricultural runoff

☐ Septic tanks

☐ Other(s), specify

B. Waterbody uses

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

☒ Livestock watering

☐ Contact recreation

☐ Irrigation withdrawal

☒ Non-contact recreation

☐ Fishing

☐ Navigation

☐ Domestic water supply

☐ Industrial water supply

☐ Park activities

☐ Other(s), specify

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

ATTACHMENT H:
DOMESTIC TECHNICAL WORKSHEET 2.1

DOMESTIC 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 75)

Date of study: 12/8/2021 Time of study: 7:00 AM

Stream name: Clear Creek

Location: 33.2792 North, -97.0671 West

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 75)

Number of stream bends that are well defined: 3

Number of stream bends that are moderately defined: 1

Number of stream bends that are poorly defined: 0

Number of riffles: 2

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.

Based on size of sidewall banks, there is evidence the stream flows much higher during peak rainfall events.

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.
run	Discharge Point	10	0.17, 0.25, 0.25, 0.17
riffle	Transect 2	6	0.17, 0.25, 0.417, 0.25
riffle	Transect 3	8	0.17, 0.417, 0.33, 0.33
run	Transect 4	17	1.5, 1, 0.58, 0.17

Section 3. Summarize Measurements (Instructions Page 76)

Streambed slope of entire reach, from USGS map in feet/feet: 0.0027 ft/ft

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): 340 square Miles

Length of stream evaluated, in feet: 6,000 ft

Number of lateral transects made: 4

Average stream width, in feet: 10.25 ft

Average stream depth, in feet: 0.4 ft

Average stream velocity, in feet/second: 1.04 fps

Instantaneous stream flow, in cubic feet/second: 2.07 cfs

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

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

Maximum pool depth, in feet: 1.5 ft

ATTACHMENT I:
DOMESTIC TECHNICAL WORKSHEET 6.0

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

Yes ☐

No ☒

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

N/A

C. Treatment plant pass through

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

Yes ☐ No ☒

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

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☐ No ☒

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐ No ☒

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

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

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

A. Substantial modifications

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

Yes ☐ No ☐

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

N/A

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.

N/A

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.

N/A

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

Company Name: N/A

SIC Code: N/A

Telephone number: N/A Fax number:

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

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).

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

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: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

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.

N/A

ATTACHMENT J:
ORIGINAL USGS MAP



Photo 1: North View



Photo 2: South View



Photo 3: Discharge Point, Upstream

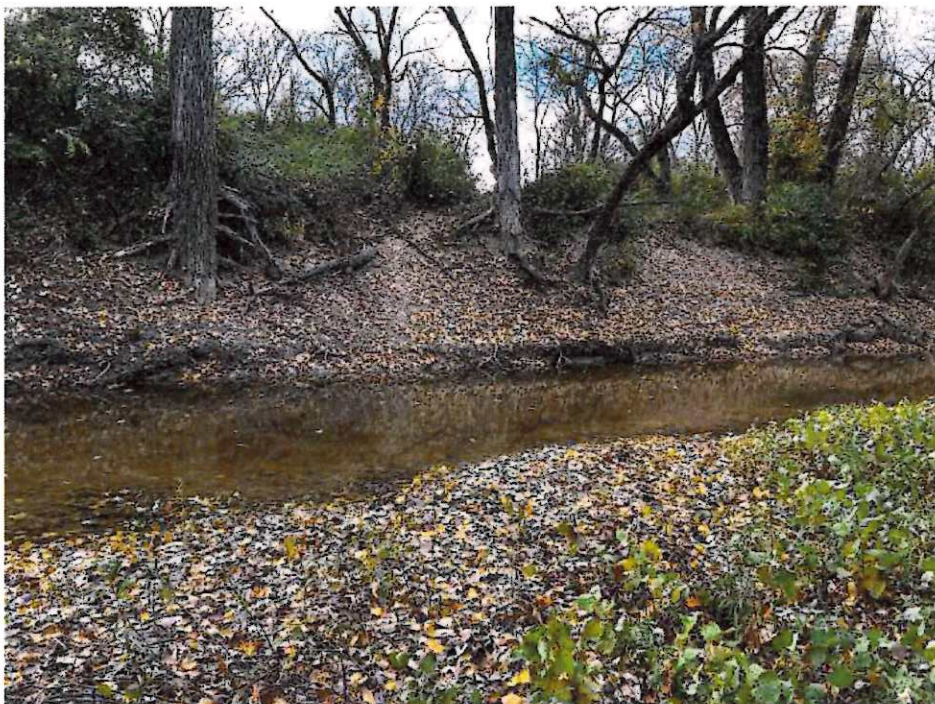


Photo 4: Discharge Point, Front

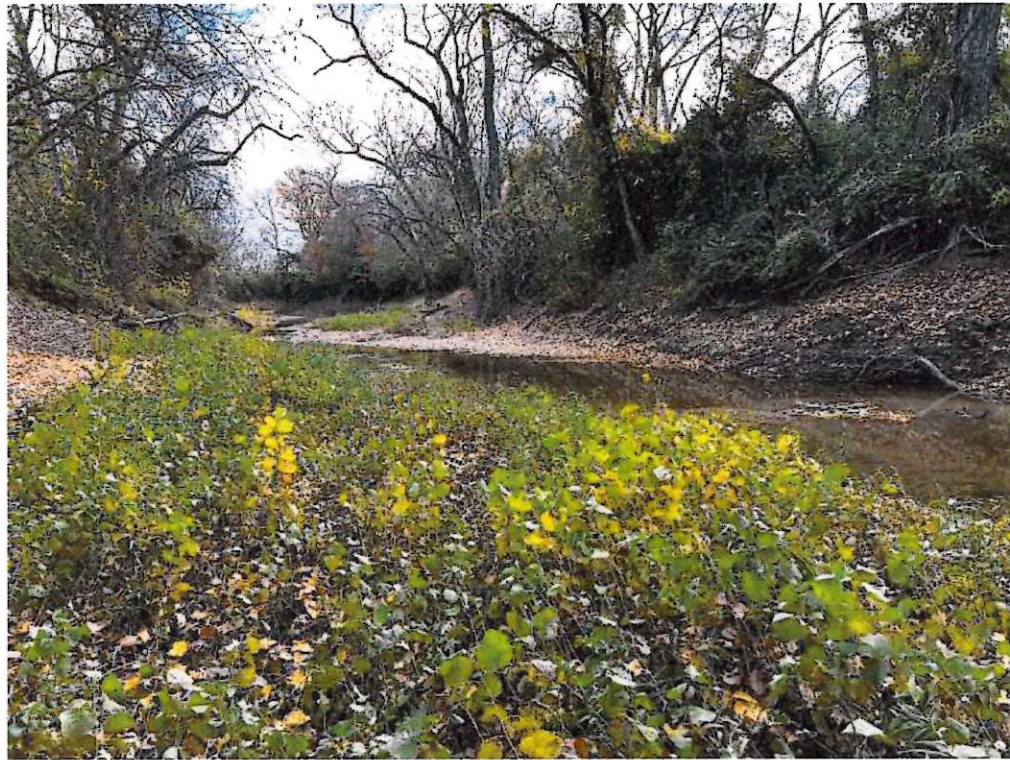


Photo 5: Discharge Point, Downstream

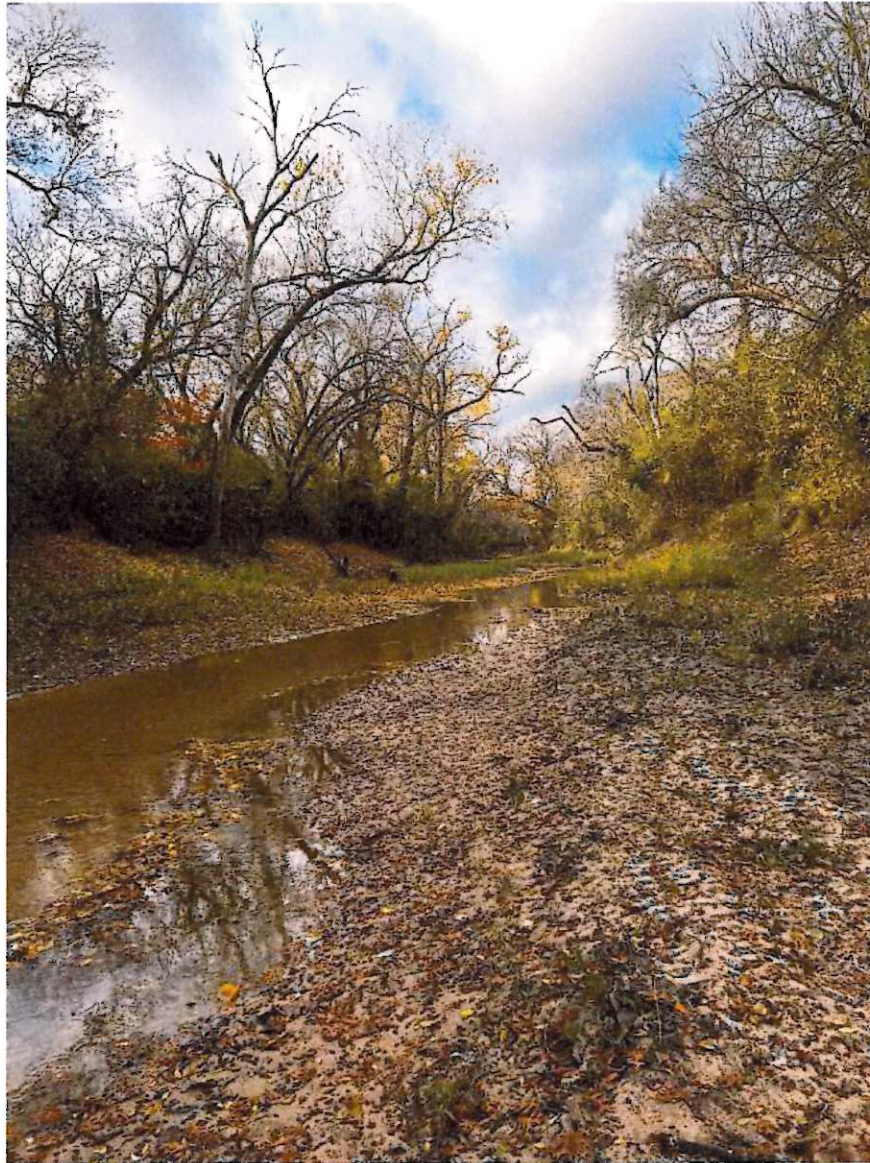


Photo 6: Transect 2, Upstream



Photo 7: Transect 2, Front

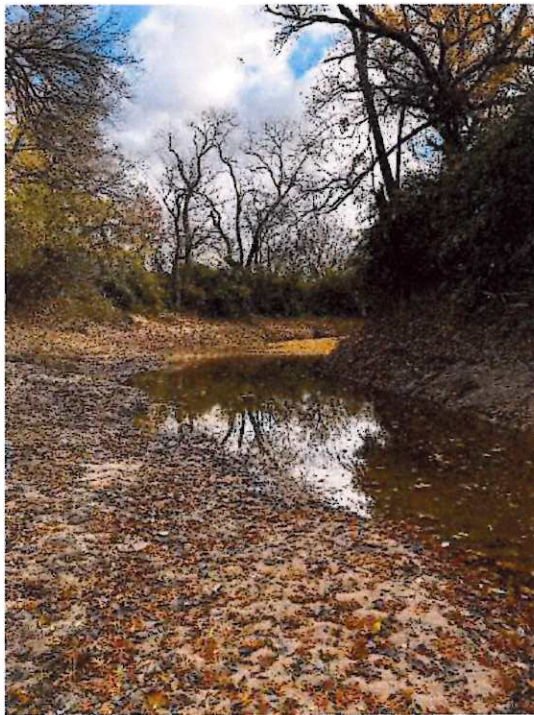


Photo 8: Transect 2, Downstream



Photo 9: Transect 3, Upstream



Photo 10: Transect 3, Front



Photo 11: Transect 3, Downstream



Photo 12: Transect 4, Upstream



Photo 13: Transect 4, Front



Photo 14: Transect 4, Downstream

ATTACHMENT Q:
DESIGN CALCULATIONS AND FEATURES

Summary Table of Phase 1 Design		
Part 1 of 2		
Design parameter	Unit	Value
Average Flowrate	MGD	2.5
Peak Flowrate	MGD	10
BOD	mg/L	313.92
TSS	mg/L	454
NOX	mg/L	28.9
Primary Clarifier	Unit	Value
Number of Clarifiers	#	2
Clarifier Diameter	ft	110
Clarifier Area	ft ²	9503
Weir Length	ft	346
Side Water Depth of Clarifier	ft	13
Clarifier Volume	ft ³	123543
Clarifier Flow @ ADF	gpd	2500000
Clarifier Flow @ Peak Flow	gpd	10000000
MBR Trains	Unit	Value
Number of Trains	-	4
Preaeration Basin	Unit	Value
Volume	ft ³	71006
Detention Time	h	5.15
MLSS	mg/L	12000
MLVSS	mg/L	9480
Oxygen demand	lb/h	492.50
Aeration rate	ft ³ /min	5453.28
Membrane Basin	Unit	Value
Volume	ft ³	21426.4
Hydraulic Detention Time	hr	1.55
MLSS	mg/L	12000.0
MLVSS	mg/L	9480.0
Oxygen demand	lb/h	54.72
Aeration rate (for O ₂)	ft ³ /min	37.83
Average Day Membrane Flux	gfd	2477292.3
Peak Day Membrane Flux	gfd	9909169.2
Membrane Area	ft ²	261230.2
RAS ratio	-	6.0
RAS flowrate	ft ³ /day	2005208.3

Summary Table of Phase 1 Design		
Part 2 of 2		
Anaerobic Basin	Unit	Value
Volume	ft ³	17751
Detention Time	h	1.29
Anoxic Basin	Unit	Value
Effluent NO ₃ -N	mg/L	4.1
Volume	ft ³	18486
Detention Time	h	1.340
MLSS	mg/L	10286
Overall SDNR	g NO ₃ -N/g MLVSS·d	0.177
Mixing power	kW	4.19
Alkalinity required as CaCO ₃	lb/d	991
Anaerobic Digester	Unit	Value
Number of Digesters	#	2
Digester Diameter	ft	90
Digester Area	ft ²	6361.7
Side Water Depth of Digester	ft	19
Digester Volume	ft ³	120873
Influent TSS	mg/L	10286
TSS Removal Efficiency	%	45
Specific Gravity	-	1.02
Total Sludge Mass	lb/d	9268.0
Total Sludge Volume	gpd	21176.0
Dewatering and Composting	Unit	Value
Influent Sludge Mass	lb/d	9268
Influent Solids Weight %	%	4.00%
Effluent Solids Weight %	%	17%
Compost Solids Mass	lb/d	370.7
Compost Flow Mass	lb/d	2180.7
Flow Back to Headworks Mass	gpd	18995
UV Basin	Unit	Value
Number of Channel	#	2
Approach Channel	ft	4
Downstream Channel	ft	4

Summary Table of Phase 2 Design		
Part 1 of 2		
Design parameter	Unit	Value
Average Flowrate	MGD	5
Peak Flowrate	MGD	20
BOD	mg/L	313.92
TSS	mg/L	454
NOX	mg/L	28.9
Primary Clarifier	Unit	Value
Number of Clarifiers	#	2
Clarifier Diameter	ft	110
Clarifier Area	ft ²	9503
Weir Length	ft	346
Side Water Depth of Clarifier	ft	13
Clarifier Volume	ft ³	123543
Clarifier Flow @ ADF	gpd	5000000
Clarifier Flow @ Peak Flow	gpd	20000000
MBR Trains	Unit	Value
Number of Trains	-	8
Preaeration Basin	Unit	Value
Volume	ft ³	142012
Detention Time	h	5.15
MLSS	mg/L	12000
MLVSS	mg/L	9480
Oxygen demand	lb/h	437.58
Aeration rate	ft ³ /min	4845.12
Membrane Basin	Unit	Value
Volume	ft ³	42852.7
Hydraulic Detention Time	hr	1.55
MLSS	mg/L	12000.0
MLVSS	mg/L	9480.0
Oxygen demand	lb/h	48.62
Aeration rate (for O ₂)	ft ³ /min	33.61
Average Day Membrane Flux	gfd	4954584.6
Peak Day Membrane Flux	gfd	19818338.3
Membrane Area	ft ²	522460.3
RAS ratio	-	6.0
RAS flowrate	ft ³ /day	4010416.7

Summary Table of Phase 2 Design		
Part 2 of 2		
Anaerobic Basin	Unit	Value
Volume	ft ³	35503
Detention Time	h	0.64
Anoxic Basin	Unit	Value
Effluent NO ₃ -N	mg/L	4.1
Volume	ft ³	36973
Detention Time	h	1.340
MLSS	mg/L	10286
Overall SDNR	g NO ₃ -N/g MLVSS·d	0.177
Mixing power	kW	8.38
Alkalinity required as CaCO ₃	lb/d	1981
Anaerobic Digester	Unit	Value
Number of Digesters	#	2
Digester Diameter	ft	90
Digester Area	ft ²	6361.7
Side Water Depth of Digester	ft	19
Digester Volume	ft ³	120873
Influent TSS	mg/L	10286
TSS Removal Efficiency	%	45
Specific Gravity	-	1.02
Total Sludge Mass	lb/d	18536.0
Total Sludge Volume	gpd	42352.1
Dewatering and Composting	Unit	Value
Influent Sludge Mass	lb/d	18536
Influent Solids Weight %	%	4.00%
Effluent Solids Weight %	%	17%
Compost Solids Mass	lb/d	741.4
Compost Flow Mass	lb/d	4361.4
Flow Back to Headworks Mass	gpd	37991
UV Basin	Unit	Value
Number of Channel	#	2
Approach Channel	ft	4
Downstream Channel	ft	4

Summary Table of Phase 3 Design		
Part 1 of 2		
Design parameter	Unit	Value
Average Flowrate	MGD	10
Peak Flowrate	MGD	40
BOD	mg/L	313.92
TSS	mg/L	454
NOX	mg/L	28.9
Primary Clarifier	Unit	Value
Number of Clarifiers	#	4
Clarifier Diameter	ft	110
Clarifier Area	ft ²	9503
Weir Length	ft	346
Side Water Depth of Clarifier	ft	13
Clarifier Volume	ft ³	123543
Clarifier Flow @ ADF	gpd	10000000
Clarifier Flow @ Peak Flow	gpd	40000000
MBR Trains	Unit	Value
Number of Trains	-	16
Preaeration Basin	Unit	Value
Volume	ft ³	284024
Detention Time	h	5.15
MLSS	mg/L	12000
MLVSS	mg/L	9480
Oxygen demand	lb/h	327.73
Aeration rate	ft ³ /min	3628.79
Membrane Basin	Unit	Value
Volume	ft ³	85705.4
Hydraulic Detention Time	hr	1.55
MLSS	mg/L	12000.0
MLVSS	mg/L	9480.0
Oxygen demand	lb/h	36.41
Aeration rate (for O ₂)	ft ³ /min	25.18
Average Day Membrane Flux	gfd	9909169.2
Peak Day Membrane Flux	gfd	19818338.3
Membrane Area	ft ²	1044920.7
RAS ratio	-	6.0
RAS flowrate	ft ³ /day	4010416.7

Summary Table of Phase 3 Design		
Part 2 of 2		
Anaerobic Basin	Unit	Value
Volume	ft ³	71006
Detention Time	h	0.64
Anoxic Basin	Unit	Value
Effluent NO ₃ -N	mg/L	4.1
Volume	ft ³	73946
Detention Time	h	1.340
MLSS	mg/L	10286
Overall SDNR	g NO ₃ -N/g MLVSS·d	0.177
Mixing power	kW	16.75
Alkalinity required as CaCO ₃	lb/d	3962
Anaerobic Digester	Unit	Value
Number of Digesters	#	2
Digester Diameter	ft	90
Digester Area	ft ²	6361.7
Side Water Depth of Digester	ft	19
Digester Volume	ft ³	120873
Influent TSS	mg/L	10286
TSS Removal Efficiency	%	45
Specific Gravity	-	1.02
Total Sludge Mass	lb/d	37072.0
Total Sludge Volume	gpd	84704.1
Dewatering and Composting	Unit	Value
Influent Sludge Mass	lb/d	37072
Influent Solids Weight %	%	4.00%
Effluent Solids Weight %	%	17%
Compost Solids Mass	lb/d	1482.9
Compost Flow Mass	lb/d	8722.8
Flow Back to Headworks Mass	gpd	75981
UV Basin	Unit	Value
Number of Channel	#	2
Approach Channel	ft	4
Downstream Channel	ft	4

Clear Creek Water Reclamation Plant

Design Features

1. Emergency Power Requirements

In accordance with *30 TAC § 217.36* the treatment facility must incorporate an on-site automatically starting generator capable of continuously operating all critical wastewater treatment system units. The fuel tank must be sized for a run time greater than the longest power outage in the power records. This generator will provide enough power for the following units:

- A. Influent Lift Station Pumps
- B. Mechanical Bar Screens
- C. Activated Sludge Mechanical Surface Aerators (one in each pre-aeration basin)
- D. Clarifier Sludge Scrapers
- E. Submerged Membrane Units
- F. Clean In Place System
- G. Blowers
- H. Return Activated Sludge Pumps
- I. Waste Activated Sludge Pumps
- J. UV System
- K. Lighting Panels and Control Equipment
- L. Effluent Metering Station

An automatic transfer switch will be included to transfer electrical loads to the generator during an outage. In accordance with *30 TAC § 217.37*, the disinfection system will automatically restart during a power outage and upon transfer back to the main power source.

2. Alarm Features

The facility will be equipped with a Supervisory Control and Data Acquisition (SCADA) system to monitor the operation of all critical treatment units. The control room will include a computer with graphic display of the treatment units that will indicate status and alarm conditions. The computer system will include an auto dialer to alert facility personnel of the following conditions:

- A. Power Outage
- B. Influent Lift Station Wet Well High Level
- C. Bar Screen Channel High Level
- D. Clarifier Torque Overload
- E. Equipment Failure

The auto dialer will store prerecorded messages concerning each alarm condition and the procedure to be followed and will call up to 8 different phone numbers until the alarm condition is acknowledged. The influent lift station and clarifiers will also be equipped with local alarm lights for high level and high torque, respectively.

3. Design Features for Reliability and Operating Flexibility

- A. Influent Lift Station: The influent lift station will include submersible pumps sized to meet peak flow pumping capacity with the largest unit out of service. Level switches will automatically start and stop the pumps based on influent flows and rising and falling wet well levels. High wet well level will result in an alarm condition.
- B. Bar Screen: The mechanical bar screen structure will include a bypass channel with a manual screen for use when needed. Slide gates will be used to isolate each channel as required. A redundant bar screen will be utilized for both the coarse and fine screen.
- C. MBR Basins: Each basin will have flow control that will allow the basin to be shut down for maintenance. No additional infrastructure will have to be installed to allow the basins to reach safe maintenance conditions.
- D. UV: Dual UV Channels installed for redundancy.
- E. Grit Chambers: Operate by physical process so no electricity is required.

4. Overflow Prevention

The following design features will be used to prevent the overflow of wastewater from treatment units.

- A. Based on master plan data, the facility design includes a peaking factor of 4 to insure adequate hydraulic capacity.
- B. The influent lift station will be designed with the capacity to pump peak flow with the largest single pump out of service.
- C. The facility hydraulic design, including piping, channels, weirs, troughs, and other features will be sized to allow the 2-hour peak flow to pass through the facility without exceeding minimum freeboard requirements with any single treatment unit out of service.

ATTACHMENT R:
SOLIDS MANAGEMENT PLAN

Clear Creek Water Reclamation Plant
Solids Management Plan Phase 1

Master Planning Data Collection identifies an influent BOD strength of 314 mg/L, the initial design flow capacity of this treatment facility is 2.5 MGD. This corresponds to a removal of 6,549 lbs. BOD/day (314 mg/L x 8.34 lbs./gallon x 2.5 MGD). The volatile solids in the sludge are estimated to have no reduction, therefore 100% solids would be remaining.

Sludge Production 2.5 MGD

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds of Influent BOD ₅	6,549	4,912	3,275	1,637
Pounds of digested dry sludge produced	4,420	3,315	2,210	1,105
Pounds of wet sludge produced	110,501	82,876	55,251	27,625
Gallons of wet sludge produced	13,250	9,937	6,625	3,312

Assuming influent BOD at average temperatures and 4.0% solids reduction in the anaerobic digesters at 100% of design flow, sludge would flow to the solids handling building at 13,250 gallons per day. The total capacity of the proposed aerobic digester basins is 1,808,382 gallons. The digested sludge will then be composted. If compost does not meet permit quality, it will be hauled to an authorized landfill by a registered hauler.

The anaerobic digester will be designed to be (2) 90'ø x 19'.

Clear Creek Water Reclamation Plant
Solids Management Plan Phase 2

Master Planning Data Collection identifies an influent BOD strength of 314 mg/L, the initial design flow capacity of this treatment facility is 5.0 MGD. This corresponds to a removal of 13,099 lbs. BOD/day (314 mg/L x 8.34 lbs./gallon x 5.0 MGD). The volatile solids in the sludge are estimated to have no reduction, therefore 100% solids would be remaining.

Sludge Production 5 MGD Flow

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds of Influent BOD ₅	13099	9824	6549	3275
Pounds of digested dry sludge produced	8840	6630	4420	2210
Pounds of wet sludge produced	221003	165752	110501	55251
Gallons of wet sludge produced	26499	19874	13250	6625

Assuming influent BOD at average temperatures and 4.0% solids reduction in the anaerobic digesters at 100% of design flow, sludge would flow to the solids handling building at 26,499 gallons per day. The total capacity of the proposed aerobic digester basins is 1,808,382 gallons. The digested sludge will then be composted. If compost does not meet permit quality, it will be hauled to an authorized landfill by a registered hauler.

The anaerobic digester will be designed to be (2) 90'ø x 19'.

Clear Creek Water Reclamation Plant
Solids Management Plan Phase 3/ Design Flow

Master Planning Data Collection identifies an influent BOD strength of 314 mg/L, the initial design flow capacity of this treatment facility is 10.0 MGD. This corresponds to a removal of 26,198 lbs. BOD/day (314 mg/L x 8.34 lbs./gallon x 10.0 MGD). The volatile solids in the sludge are estimated to have no reduction, therefore 100% solids would be remaining.

Sludge Production at 10 MGD Design Flow

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds of Influent BOD ₅	26198	19648	13099	6549
Pounds of digested dry sludge produced	17680	13260	8840	4420
Pounds of wet sludge produced	442006	331504	221003	110501
Gallons of wet sludge produced	52998	39749	26499	13250

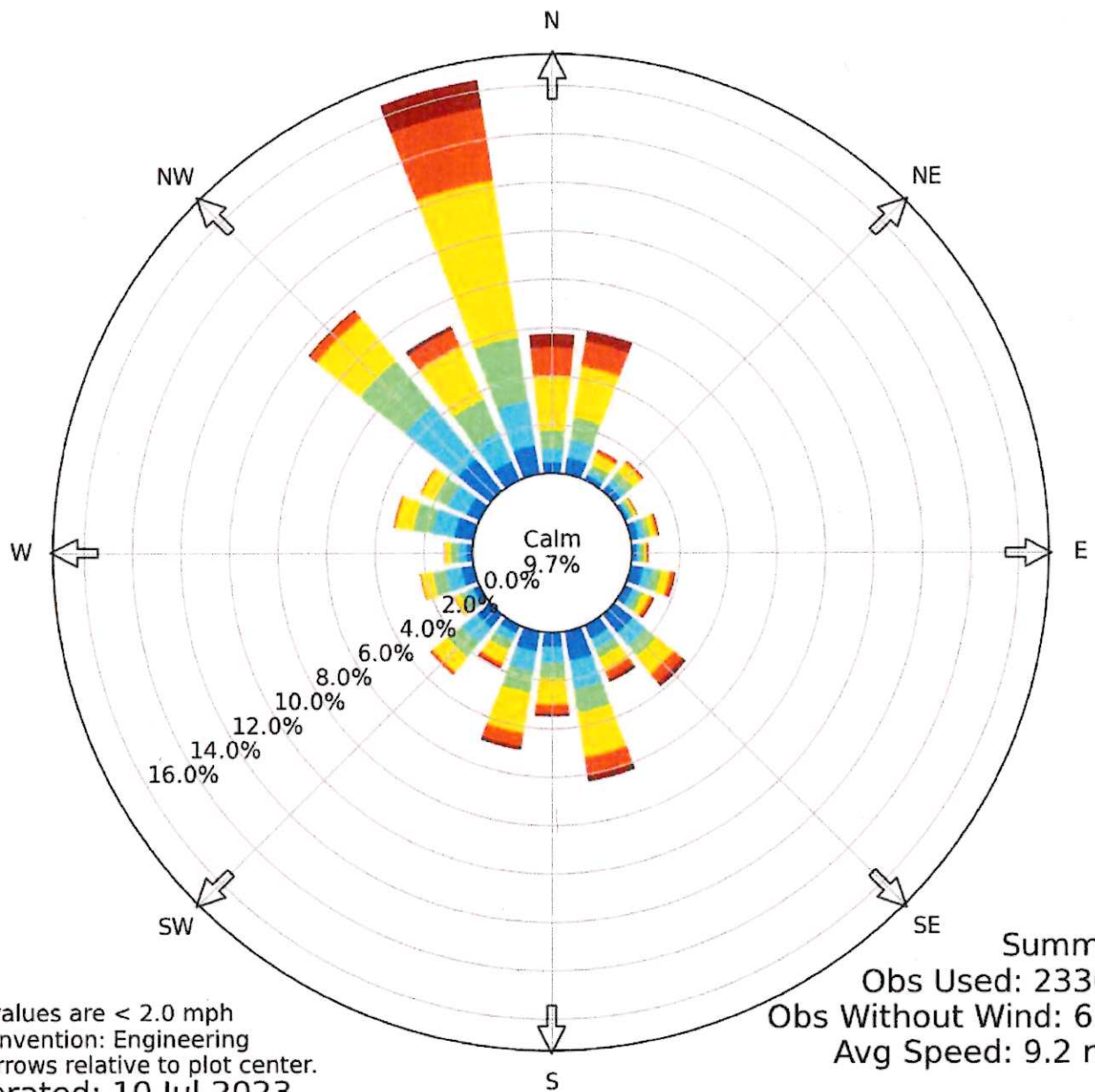
Assuming influent BOD at average temperatures and 4.0% solids reduction in the anaerobic digesters at 100% of design flow, sludge would flow to the solids handling building at 52,998 gallons per day. The total capacity of the proposed aerobic digester basins is 1,808,382 gallons. The digested sludge will then be composted. If compost does not meet permit quality, it will be hauled to an authorized landfill by a registered hauler.

The anaerobic digester will be designed to be (2) 90'ø x 19'.

ATTACHMENT S:
WIND ROSE

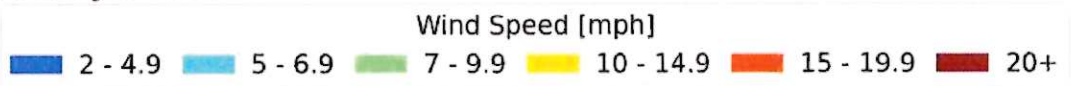


Windrose Plot for [DTO] Denton
Obs Between: 10 Jul 1996 12:53 AM - 09 Jul 2023 11:53 PM America/Chicago



Calm values are < 2.0 mph
Bar Convention: Engineering
Flow arrows relative to plot center.
Generated: 10 Jul 2023

Summary
Obs Used: 233685
Obs Without Wind: 6234
Avg Speed: 9.2 mph



ATTACHMENT T:
PUBLIC INVOLVEMENT PLAN FORM



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.

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.

Changing the treatment technology of Clear Creek Water Reclamation Plant to Membrane Bioreactor water treatment and then increasing the flow to 10 MGD, final phase capacity, over three phases of construction.

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 of Denton

(City)

Denton

(County)

48121

(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

91.4

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

32,224

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

Black/African American - 11.5%, American Indian/Alaskan Native - 0.8%, Asian - 4.2%, Native Hawaiian and Pacific Islander - 0.1%, Two or More Races - 8.8%, Hispanic or Latino - 23.4%

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

4.0

(e) Languages commonly spoken in area by percentage

77.25% English, 16.67% Spanish, and 6.08% Other.

(f) Community and/or Stakeholder Groups

Unknown

(g) Historic public interest or involvement

Unknown

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) Pecan Creek Water Reclamation Plant, Admin Building

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 U:
SEWAGE SLUDGE TECHNICAL REPORT



DOMESTIC WASTEWATER PERMIT APPLICATION: SEWAGE SLUDGE TECHNICAL REPORT 1.0

GENERAL INFORMATION

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

SECTION 1. TREATMENT PROCESSING INFORMATION

A. Attach the engineering report and/or plans and specifications for the proposed facility which must include the following:

- Description of the type of process facility
- Process flow diagram
- Design calculations, features, and functional arrangements
- Site controls
- Groundwater protection
- Odor, dust, and bio-aerosol management
- Ultimate product

Attachment Number: Attachment V: Sludge Treatment Process Information

B. Is the facility located or proposed to be located above the 100-year frequency flood plain? Yes ☒ No ☐

If No, provide a separate site map indicating the location of the sludge units within the 100-year frequency flood plain and a detailed description of the type and size of protective measures.

N/A

SECTION 2. SOURCES OF SLUDGE

A. Provide the sources of generation, any water quality or public water supply permit number issued by TCEQ, and the quantity for each source.

Facility Name	Permit Number	Annual Quantity
Clear Creek Water Reclamation Plant	WQ0014416001	Estimated 6,800 tons at final buildout
Sludge Acceptance from other WWTPs	TBD	TBD

B. For each source of sludge, complete Table 1 located at the end of this form.

SECTION 3. PATHOGEN AND VECTOR ATTRACTION REDUCTION

A. For each source of sludge, complete Tables 2 and 3 located at the end of this form.

B. Indicate by a checkmark that all of the following are being followed for Class B land application.

- ☐ Food crop harvesting restrictions
- ☐ Animal grazing restrictions
- ☐ Public access restrictions

SECTION 4. WELL INFORMATION

In the table below, provide information about each well located on-site and within 500 feet of the processing, application, and/or disposal area. Water well information is available from the Texas Water Development Board, 512-936-0837. Oil and gas well information is available from the Texas Railroad Commission, 512-463-6851.

Well Type (Water Well, Oil Well, Injection Well)	Producing or Non-Producing	Open, Cased, or Capped*	Protective Measures**
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

* Casing, capping, and plugging rules are located in 16 TAC Chapter 76.

** The following protective measures are required prior to initial sludge/septage application:

- If the well is producing and cased, no action is needed.
- If the well is producing and not cased, the well must be cased or describe other protective measures.
- If the well is non-producing and cased, the well must be plugged or capped.
- If the well is non-producing and not cased, the well must be plugged.

SECTION 5. ADDITIONAL TECHNICAL REPORTS

Identify which additional technical reports are submitted with this application.

- ☒ Technical Report 2.0, Sewage Sludge Composting
- ☒ Technical Report 3.0, Marketing and Distribution
- ☐ Technical Report 4.0, Sewage Sludge Surface Disposal

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: WQ0014416001

Applicant: City of Denton

I understand that I am responsible for operating the site described in this permit application in accordance with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the Texas Commission on Environmental Quality.

I certify, under penalty of law, that all 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, imprisonment for violations, and revocation of this permit.

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: Sara Hensley

Title: City Manager

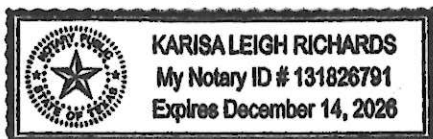
Signature (use blue ink): _____ Date: 2/17/24

SUBSCRIBED AND SWORN to before me by the said City Manager on
this 17th day of April, 20 24

My commission expires on the 14th day of December, 20 26

Karisa Leigh Richards

(Seal)



Notary Public

Denton

County, Texas

Appendix A Pollutant Concentrations in Sewage Sludge

Complete this table for each source of sludge.

Facility Name: Clear Creek Water Reclamation Plant

TCEQ Authorization Number: WQ0014416001

POLLUTANT/METAL ANALYSIS

Pollutant	Maximum Concentration, mg/kg dry weight	Test Results, mg/kg dry weight	Sample Date	Detection Level for Analysis	Sample Method
Arsenic (As)	75	TBD	TBD	TBD	TBD
Cadmium (Cd)	85	TBD	TBD	TBD	TBD
Chromium (Cr)	3000	TBD	TBD	TBD	TBD
Copper (Cu)	4300	TBD	TBD	TBD	TBD
Lead (Pb)	840	TBD	TBD	TBD	TBD
Mercury (Hg)	57	TBD	TBD	TBD	TBD
Molybdenum (Mo)	75	TBD	TBD	TBD	TBD
Nickel (Ni)	420	TBD	TBD	TBD	TBD
Selenium (Se)	100	TBD	TBD	TBD	TBD
Zinc (Zn)	7500	TBD	TBD	TBD	TBD
PCB (ppm)	50.0 ppm	TBD	TBD	TBD	TBD
Fecal Coliform (MPN)					

Appendix A Pollutant Concentrations in Sewage Sludge

Complete this table for each source of sludge.

Facility Name: Sludge Acceptance from other WWTPs

TCEQ Authorization Number: TBD

POLLUTANT/METAL ANALYSIS

Pollutant	Maximum Concentration, mg/kg dry weight	Test Results, mg/kg dry weight	Sample Date	Detection Level for Analysis	Sample Method
Arsenic (As)	75	TBD	TBD	TBD	TBD
Cadmium (Cd)	85	TBD	TBD	TBD	TBD
Chromium (Cr)	3000	TBD	TBD	TBD	TBD
Copper (Cu)	4300	TBD	TBD	TBD	TBD
Lead (Pb)	840	TBD	TBD	TBD	TBD
Mercury (Hg)	57	TBD	TBD	TBD	TBD
Molybdenum (Mo)	75	TBD	TBD	TBD	TBD
Nickel (Ni)	420	TBD	TBD	TBD	TBD
Selenium (Se)	100	TBD	TBD	TBD	TBD
Zinc (Zn)	7500	TBD	TBD	TBD	TBD
PCB (ppm)	50.0 ppm	TBD	TBD	TBD	TBD
Fecal Coliform (MPN)					

DOMESTIC WASTEWATER PERMIT APPLICATION:
SEWAGE SLUDGE TECHNICAL REPORT 2.0
SEWAGE SLUDGE COMPOSTING

SECTION 1. RENEWAL OF EXISTING AUTHORIZATION

Provide the following information if you are requesting continued authorization to compost sewage sludge. Complete this section only if composting is currently authorized in the existing permit.

Date operation commenced: N/A

Location of operation: N/A

Type of bulking agent: N/A

Approximate amount of sludge composted: N/A

Provide a brief discussion of the composting process and any significant changes since the permit was last issued.

N/A

SECTION 2. NEW AUTHORIZATION TO COMPOST SEWAGE SLUDGE

- A. Submit an ORIGINAL General Highway (County) Map. See instructions for information that must be displayed on the map.

Attachment Number: Attachment W: Denton County Map

- B. Has sewage sludge/septage previously been composted at this facility?

Yes ☐ No ☒

If Yes, provide a use history of the composting operations.

N/A

C. Provide a detailed description of the composting operation. The description must include the following information:

- Amount of sludge originating off-site to be composted;
- Total amount of sludge to be composted and total amount of feedstocks;
- Fecal coliform or Salmonella bacteria analysis (in MPN or CFU);
- Type, origin, and amount of bulking material to be used;
- Set back distances from facility boundaries for receiving, processing, or storing feedstocks or final product;
- Plan view of site;
- Type of composting proposed;
- Construction, maintenance, and operation to manage run-on and run-off during a 25-year, 24-hour rainfall event, including all calculations and sources used;
- Leachate collection system and leachate processing and disposal method;
- Construction, maintenance, and operations for groundwater protection;
- Design plan to line all surfaces used for delivery, mixing, composting, curing, screening, and storage to control seepage; and
- Design to minimize windblown material, odor, and vector control.

Attachment Number: Attachment V: Sludge Treatment Process Information

Plan

D. Does the end product meet the requirements in 30 TAC 332.72(d)(2)(A)-(D)?

Yes ☒

No ☐

E. Submit a site operating plan which provides guidance from the design engineer to site management and operating personnel in sufficient detail to enable them to conduct day to day operations in a manner consistent with the engineer's design. The plan must include the following information:

- Process description (feedstock identification, tipping process, process, post-processing, product distribution, process diagram);
- Minimum number of personnel and their functions provided by the site operator;
- Minimum equipment;
- Security, site access control, traffic control, and safety;
- Control of the delivery material in designated areas;
- Screening for unprocessable, prohibited, and unauthorized material;
- Fire prevention and suppression plan;

- Control of windblown material;
- Equipment failures;
- Anticipated final grade of materials; and
- Description of handling and/or disposal of materials that doesn't meet 30 TAC Chapter 312.

Attachment Number: Attachment X: Composting Facility Site Operation Plan

DOMESTIC WASTEWATER PERMIT APPLICATION:
SEWAGE SLUDGE TECHNICAL REPORT 3.0
SEWAGE SLUDGE MARKETING AND DISTRIBUTION

- A. What is the TCEQ Permit number for the Wastewater Treatment Plant that is generating the Class A or Class AB sewage sludge? WQ0014416001
- B. What is the name and location of the distribution storage center? TBD
- C. Provide a description of the marketing and distribution plan.

Dyno Dirt is already an established product in the city of Denton. Previous sales at the Pecan Creek Water Reclamation plant (WQ0014416001) have spread awareness of the product to the citizens in the surrounding areas. The product will also be marketed with social media, conference exhibitions, and festival attendance. The existing compost at the city of Denton has achieved the United States Composting Council's Seal of Testing Assurance (STA). Distribution will occur at the Clear Creek Facility or the existing Dyno Dirt facility at Pecan Creek WRP.

- D. Provide the following information for all entities receiving sludge directly from the permittee. If more than 2, submit an attachment which includes the follow information.

1. Contact Name: N/A

Company Name: N/A

Mailing Address: N/A

City, State, and Zip Code: N/A

Phone Number: N/A Fax Number: N/A

Longitude: N/A

Latitude: N/A

Permits: N/A

2. Contact Name: N/A

Company Name: N/A

Mailing Address: N/A

City, State, and Zip Code: N/A

Phone Number: N/A Fax Number: N/A

Longitude: N/A

Latitude: N/A

Permits: N/A

- E. Provide a copy of the label or information sheet that is provided to each entity receiving the sewage sludge.

Attachment Number: N/A

- F. Indicate by a checkmark that the sewage sludge meets the following:

- ☐ Metal concentrations in 30 TAC §312.43(b)(3)
- ☐ Vector attraction reduction requirements
- ☐ Class A, Class AB or Class B pathogen requirements

- G. Indicate the type of recordkeeping: N/A

PLEASE NOTE: If Class AB sewage sludge, attach a topographic map that shows the required buffer zones stated in 30 TAC §312.44.

ATTACHMENT V:
SLUDGE TREATMENT PROCESS INFORMATION

Sludge Treatment Processing Information

Note: Composting facility is proposed and not in operation currently. This description is written based on existing composting technology at Pecan Creek Water Reclamation Plant.

Description of Process Facility:

Biosolids will be dewatered and transferred to a composting facility. The facility will be enclosed with solar drying, air exchanges, and pasteurization to create Class A solids.

Process Flow Diagram

See Attachment N: Process Flow Diagram

Design Calculations, Features, and Functional Arrangements

See Attachment Q: Design Calculations and Features

Site Plan

Please refer to the buffer zone map for planned location and setbacks of composting facility.

See Attachment M: Buffer Zone Map

Planned Construction

Facility will be constructed during phase 1 in Spring 2025.

Site Controls

Facility will be enclosed on a concrete pad that will prevent leachate from leeching into surrounding area. Drains shall be installed to carry leachate to headworks of plant. Trash generated by the facility and its operation shall be disposed of and ultimately transported to a landfill. Drains shall be cleaned as needed to prevent clogage.

Groundwater and Runoff Protection

Groundwater is protected by the composting facility's concrete pad. Facility is fully enclosed so no surface runoff of the facility will ever be in contact with the composting operation.

Odor, Dust, and Bio-Aerosol Management

Fully enclosed structure shall minimize odor, dust, and bio-aerosols. Multiple air exchanges in the building as well shall ensure that it is a safe environment for workers and prevent buildup of noxious gases.

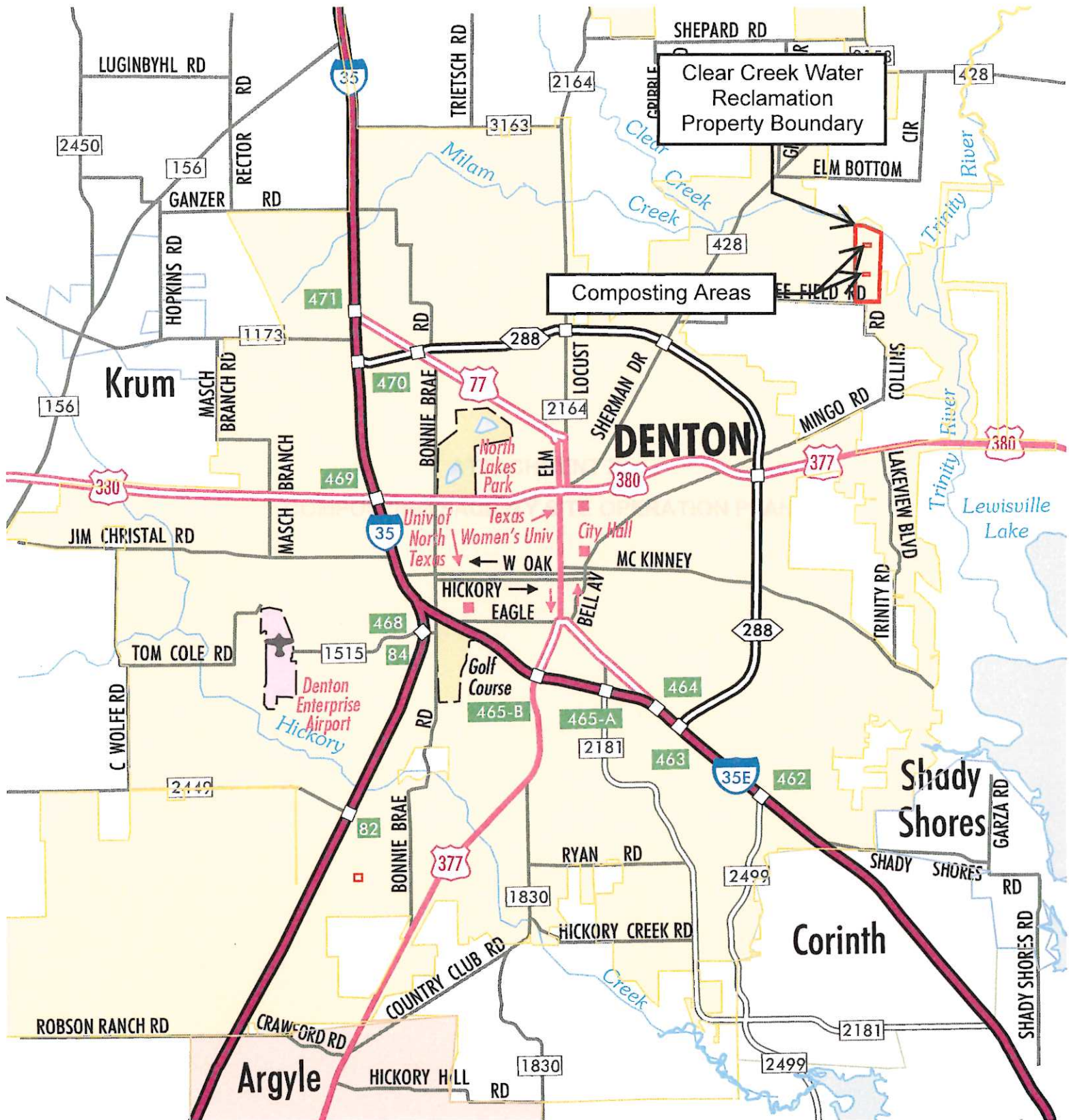
Ultimate Product

The ultimate product will undergo pasteurization and is expected to be a Class A product.

Bacteria Collection

Fecal coliform or Salmonella bacterial analysis will be performed once facility is operational.

ATTACHMENT W:
DENTON COUNTY MAP



ATTACHMENT Y:
COPY OF PERMIT PAYMENT VOUCHER

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number: 694886
Trace Number: 582EA000600276
Date: 03/05/2024 09:50 AM
Payment Method: CC - Authorization 0000280332
Voucher Amount: \$2,000.00
Fee Type: WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - NEW AND MAJOR AMENDMENTS
ePay Actor: SANTOS SOTELO

Payment Contact Information

Name: SANTOS SOTELO
Company: KIMLEY-HORN
Address: 801 CHERRY STREET, FORT WORTH, TX 76102
Phone: 682-348-7279

Site Information

Site Name: CLEAR CREEK WATER RECLAMATION PLANT
Site Location: 9 200 FT EAST OF FM ROAD 428 AND 1 800 FT NORTHEAST OF HARTLEE FIELD ROAD

Customer Information

Customer Name: CITY OF DENTON
Customer Address: 1100 S MAYHILL RD, DENTON, TX 76208

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number: 694887
Trace Number: 582EA000600276
Date: 03/05/2024 09:50 AM
Payment Method: CC - Authorization 0000280332
Voucher Amount: \$50.00
Fee Type: 30 TAC 305.53B WQ NOTIFICATION FEE
ePay Actor: SANTOS SOTELO

Payment Contact Information

Name: SANTOS SOTELO
Company: KIMLEY-HORN
Address: 801 CHERRY STREET, FORT WORTH, TX 76102
Phone: 682-348-7279

ATTACHMENT Z:
CITY ORDINANCE

renewals, and authorizations from TCEQ, consistent with the intents and purposes of this ordinance and state law.

SECTION 3. The City Council authorizes the City Manager to provide for payment, where funds are available in the budget, of regulatory and notice fees required to receive permits, permit amendments, permit renewals, and authorizations from TCEQ.

SECTION 4. Any provision of any prior ordinance of the City which conflicts with any provision of this ordinance is hereby repealed to the extent of the conflict, but all other provisions of the ordinance of the city which are not in conflict with the provisions of this ordinance shall remain in full force and effect.

SECTION 5. This ordinance shall become effective immediately upon its passage and approval.

The motion to approve this ordinance was made by [B. Beck] and seconded by [C. Watts].

The ordinance was passed and approved by the following vote [7 - 0 -]:

	Aye	Nay	Abstain	Absent
Mayor Gerard Hudspeth:	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>
Vicki Byrd, District 1:	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>
Brian Beck, District 2:	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>
Paul Meltzer, District 3:	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>
Joe Holland, District 4:	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>
Brandon Chase McGee, At Large Place 5:	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>
Chris Watts, At Large Place 6:	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>

PASSED AND APPROVED this the 16th day of April, 2024.



GERARD HUDSPETH, MAYOR

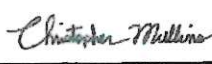
ATTEST:

LAUREN THODEN, CITY SECRETARY

BY: 

APPROVED AS TO LEGAL FORM:

MACK REINWAND, CITY ATTORNEY

BY:  Christopher Mullins
2024.04.03 17:24:31 -05'00'



ATTACHMENT L:
LANDOWNER LIST AND LABELS

Parcel-Landowner

Table

Parcel #	Landowner	Mailing Address
1	ROUX, LEE & KRISTI	5165 HARTLEE FIELD RD. DENTON, TX 76208
2	STRITTMATTER, JOSEPH M & MARLA A	3248 ELM BOTTOM CIR. AUBREY, TX 76227
3	BELEW, WANDA K	3459 COLLINS RD. DENTON, TX 76208
4	DENTON, CITY OF	215 E MCKINNEY ST. DENTON, TX 76201
5	BELEW FAMILY PARTNERS LTD	3459 COLLINS RD. DENTON, TX 76208
6	HILDRETH, KATHLEEN & BRADFORD CRAIG	3920 ELM BOTTOM CIR. AUBREY, TX 76227
7	USA CORP OF ENGINEERS	1012 FINCHER TRL. ARGYLE, TX 76226
8	HANKINS, JERALD F & DINAH D	320 STONE RIDGE DR. SUNNYVALE, TX 75182
9	KADER, MICHAEL CHRISTIAN	4300 ELM BOTTOM CIR. AUBREY, TX 76227
10	FLORES, MOISONY JORDAN	8353 LULLWATER DR. DALLAS, TX 75218
11	ADAMS, CATHERINE E DECLARATION OF TRUST	4568 ELM BOTTOM CIR. AUBREY, TX 76227
12	NO OWNER RECORD BY COUNTY APPRAISAL DISTRICT	N/A
13	NO OWNER RECORD BY COUNTY APPRAISAL DISTRICT	N/A

ROUX, LEE & KRISTI
5165 HARTLEE FIELD RD.
DENTON, TX 76208

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MARLA A
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AUBREY, TX 76227

DAVIDSON, MICHAEL
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DENTON, TX 76208

DAVIDSON, ROGER A
3501 SHADY TIMBER ST. APT. 1080
LAS VEGAS, NV 89129

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AUBREY, TX 76227

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5165 HARTLEE FIELD RD.
DENTON, TX 76208

ATTACHMENT M:
BUFFER ZONE MAP

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

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

Prefix (Mr., Ms., Miss): N/A

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 34)

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

☐ Yes ☒ No

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

The water reclamation plant will be located Approximately 12,210 feet east of the intersection of E. Sherman Drive and Hartlee Field Road, in Denton County, Texas 76208..

- 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 point of discharge is approximately 8,500 ft east of Farm-to-Market Road 428 and 3,000 ft northwest of Hartlee Field Road in Denton County, Texas. Discharge enters into on-site finishing ponds, thence to the Clear Creek stream (0823C) thence flows into Elm Fork Trinity River (0823) thence into Lewisville Lake.

City nearest the outfall(s): City of Denton

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

Outfall Latitude: 33.279218

Longitude: -97.067088

- 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?

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in [30 Texas Administrative Code §39.426](#), you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package. For your convenience, a Spanish template has been provided below.

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

DOMESTIC WASTEWATER

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

City of Denton (CN 600358980) proposes to operate Clear Creek Water Reclamation Plant (RN103935516). a membrane bioreactor process plant scheme. The facility will be located approximately 12,210 feet east of the intersection of E. Sherman Drive and Hartlee Field Road, in Denton, Denton County, Texas 76208.

Major amendment application to discharge 10 MGD design flow of treated domestic water.

Discharges from the facility are expected to contain five-day biochemical oxygen demand (BOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-H), phosphorus (P), and dissolved oxygen (DO). Domestic wastewater will be treated by *a membrane bioreactor process plant and the treatment units will include bar screens, grit chambers, primary clarifiers, anaerobic basins, anoxic basins, aerobic submerged membrane unit basins, anaerobic digesters, and ultraviolet (UV) disinfection.*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

____ Texas Historical Commission

____ U.S. Fish and Wildlife

____ Texas Parks and Wildlife Department

____ U.S. Army Corps of Engineers

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

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee: City of Denton

Permit No. WQ00 14416001

EPA ID No. TX 0125628

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

The water reclamation plant will be located Approximately 12,210 feet east of the intersection of E. Sherman Drive and Hartlee Field Road, in Denton County, Texas 76208.

SECTION III: Regulated Entity Information

21. General Regulated Entity Information <i>(If 'New Regulated Entity' is selected, a new permit application is also required.)</i>											
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" 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 <i>(Enter name of the site where the regulated action is taking place.)</i>											
Clear Creek Water Reclamation Plant											
23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>											
		City		State		ZIP		ZIP + 4			
24. County		Denton County									
If no Street Address is provided, fields 25-28 are required.											
25. Description to Physical Location:		The water reclamation plant will be located approximately 12,210 feet east of the intersection of E. Sherman Drive and Hartlee Field Road, in Denton County, Texas 76208.									
26. Nearest City						State		Nearest ZIP Code			
Denton						TX		76208			
<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:			33.279218			28. Longitude (W) In Decimal:			-97.067088		
Degrees		Minutes		Seconds		Degrees		Minutes		Seconds	
33		16		47.28		97		3		58.68	
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? <i>(Do not repeat the SIC or NAICS description.)</i>											
Treatment of domestic wastewater.											
34. Mailing Address:		901 Texas Street									
		Suite A									
		City	Denton	State	TX	ZIP	76209	ZIP + 4	4354		
35. E-Mail Address:		rusty.willard@cityofdenton.com									
36. Telephone Number				37. Extension or Code				38. Fax Number <i>(if applicable)</i>			
(940) 349-8601								() -			

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