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, por sus siglas en inglés)
   - Inglés
   - Idioma alternativo (español)
3. Solicitud original

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

DOMESTIC WASTEWATER/STORMWATER

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

Paloma Wastewater Services LLC (CN606106979) proposes to operate **Midland TPL1 Wastewater Treatment Plant** (RN), a domestic wastewater treatment plant. The facility will be located at 2311 W FM 1787, in Midland, Midland County, Texas 79706. This is a new application to discharge 150,000 gallons per day of treated domestic wastewater. The site will include one outfall.

Discharges from the facility are expected to contain Total Suspended Solids, BOD, Ammonia, Phosphorous, pH, Dissolved Oxygen, Chlorine, E. Coli, Oil and Grease, and Total Dissolved Solids. Domestic Wastewater will be treated by aeration and clarification, and disinfected with chlorine prior to discharging via the permitted outfall.

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

AGUAS RESIDUALES DOMÉSTICAS **/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.

Paloma Wastewater Services LLC (CN606106979) propone operar Midland TPL1 Wastewater Treatment Plant RN, un planta de tratamiento de aguas residuales domésticas . La instalación estará ubicada en 2311 W FM 1787, en Midland, Condado de Midland, Texas 79706. Se trata de una nueva solicitud para descargar 150,000 galones por día de aguas residuales domésticas tratadas. El sitio incluirá un emisario.

Se espera que las descargas de la instalación contengan Sólidos suspendidos totales, BOD, amoníaco, fósforo, pH, oxígeno disuelto, cloro, E. coli, aceites y grasas y sólidos disueltos totales . aguas residuales domésticas . estará tratado por tratados mediante aireación y clarificación, y desinfectados con cloro antes de su vertido por el emisario permitido.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PROPOSED PERMIT NO. WQ0016576001

APPLICATION. Paloma Wastewater Services LLC, 2000 Bering Drive, Suite 401, Houston, Texas 77057, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016576001 (EPA I.D. No. TX0146331) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 150,000 gallons per day. The domestic wastewater treatment facility will be located at 2311 West Farm-to-Market Road 1787, approximately 0.5 mile west of the intersection of Farm-to-Market Road 1787 and State Highway 349, near the city of Midland, in Midland County, Texas 79706. The discharge route will be from the plant site via pipe to Johnson Draw, thence to Mustang Draw, thence to Beals Creek, thence to Colorado River Below Lake J.B. Thomas. TCEQ received this application on July 17, 2024. The permit application will be available for viewing and copying at Midland County Centennial Library, 2503 West Loop 250 North, Midland, in Midland County, 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=-102.017222,31.710833&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 Paloma Wastewater Services LLC at the address stated above or by calling Mr. Ryan Haney, Terracon Consultants, Inc., at 713-690-8989.

Issuance Date: September 20, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ0016576001

SOLICITUD. Paloma Wastewater Services LLC, 2000 Bering Drive, Suite 401, Houston, Texas 77057, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016576001 (EPA I.D. No. TX0146331) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 150,000 galones por día. La planta estará ubicada 2311 West Farm-to-Market Road 1787 aproximadamente 0,5 milla al oeste de la intersección de Farm-to-Market Road 1787 y State Highway 349, en el Condado de Midland, Texas 79706. La ruta de descarga estará del sitio de la planta a a través de una tubería hasta Johnson Draw, de allí a Mustang Draw, de allí a Beals Creek, de allí al río Colorado debajo del lago J.B. Thomas. La TCEQ recibió esta solicitud el 17 de julio de 2024. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca centenaria del condado de Midland, 2503 West Loop 250 North, Midland, en el condado de Midland, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. 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=-102.017222,31.710833&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ

realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante

indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html. 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del Paloma Wastewater Services LLC a la dirección indicada arriba o llamando a Señor Ryan Haney al 713-690-8989.

Fecha de emisión el 20 de septiembre de 2024

Leah Whallon

From: Haney, Ryan R <Ryan.Haney@terracon.com>
Sent: Sunday, September 15, 2024 4:40 PM
To: Leah Whallon
Cc: aaepley@gmail.com
Subject: RE: Application for Proposed Permit No. WQ0016576001; Paloma Wastewater Services LLC; Midland TPL1 WWTP; Notice of Deficiency 30-Day Will Return Letter
Attachments: 02- Plain Language Summary.docx; Core Data Form.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Good Afternoon,

Please see attached Core Data Form to reflect new address for the CN and Plain Language summary.
The amended attachments to reflect final flow of 150,000 gallons per day, updated application, and technical report will be shared via FTPS. In addition, the check (amount: $300; check number 235316; tracking number 279454386850) was mailed overnight on September 13, 2024.

Please confirm receipt of this email.

Cheers,

Ryan Haney
Senior Staff Scientist
Environmental Services | Texas Division

Terracon
11555 Clay Road, Suite 100 | Houston, Texas 77043
Direct Number 713.329.2533 | Mobile Number 832.745.1318
Main Number 713-690-8989 | Fax 713-690-2055
ryan.haney@terracon.com / www.terracon.com

Please consider the environment before printing this email

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Friday, August 16, 2024 5:05 PM
To: Haney, Ryan R <Ryan.Haney@terracon.com>
Cc: aaepley@gmail.com
Subject: Application for Proposed Permit No. WQ0016576001; Paloma Wastewater Services LLC; Midland TPL1 WWTP; Notice of Deficiency 30-Day Will Return Letter

Good Afternoon,

Please see the attached Notice of Deficiency 30-Day Will Return Letter dated August 16, 2024 requesting the response needed to declare the application administratively complete. Please send the complete response by September 15, 2024.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access the hyperlink, please e-mail sender.

NTEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: Paloma Wastewater Services LLC

PERMIT NUMBER: Click here to enter text

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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 ☐	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☒	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☐	$2,015.00 ☐

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed Check/Money Order Number: 235313; 235316

Check/Money Order Amount: 550.00; 300.00

Name Printed on Check: Terracon

EPAY Voucher Number: Click here to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 29)

☒ New TPDES

☐ Major Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☐ Renewal without changes

☐ New TLAP

☐ Minor Amendment *with* Renewal

☐ Minor Amendment *without* Renewal

☐ Minor Modification of permit

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

For existing permits:

Permit Number: WQ00 Click here to enter text.

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

Expiration Date: Click here to enter text.

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

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

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

Paloma Wastewater Services LLC

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

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

CN: 606226629

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): Mr.

First and Last Name: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Registered Agent

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

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

Click here to enter text

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

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

CN: Click here to enter text

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

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

First and Last Name: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Registered Agent

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

C. Core Data Form

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

Attachment: 01 - Domestic WW 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: Ryan Haney

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Environmental Scientist

Organization Name: Terracon Consultants, Inc.

Mailing Address: 11555 Clay Rd Suite 100

City, State, Zip Code: Houston, Texas 77043

Phone No.: 713-690-8989 Ext.: Click here to enter text. Fax No.: 713-690-2055

E-mail Address: ryan.haney@terracon.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

First and Last Name: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Registered Agent

Organization Name: Paloma Wastewater Services, LLC

Mailing Address: 2000 Bering Dr. Suite 401

City, State, Zip Code: Houston, Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: aaepley@gmail.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: Ryan Haney

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Environmental Scientist

Organization Name: Terracon Consultants, Inc

Mailing Address: 11555 Clay Rd. Suite 100

City, State, Zip Code: Houston, Texas 77043

Phone No.: 713-690-8989 Ext.: Click here to enter text Fax No.: 713-690-2055

E-mail Address: ryan.haney@terracon.com

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

First and Last Name: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Registered Agent

Organization Name: Paloma Wastewater Services, LLC.

Mailing Address: 2000 Bering Dr. Suite 401

City, State, Zip Code: Houston Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: aaepley@gmail.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: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Registered Agent

Organization Name: Paloma Wastewater Services LLC

Mailing Address: 2000 Bering Dr. Suite 401

City, State, Zip Code: Houston, Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: aaepley@gmail.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: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Registered Agent

Organization Name: Paloma Wastewater Services, LLC

Mailing Address: 2000 Bering Dr. Suite 401

City, State, Zip Code: Houston, Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: aaepley@gmail.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: Ryan Haney

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Environmental Scientist

Organization Name: Terracon Consultants Inc

Mailing Address: 11555 Clay Rd. Suite 100

City, State, Zip Code: Houston, Texas 77043

Phone No.: 713-690-8989 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: ryan.haney@terracon.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: Ryan Haney

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Environmental Scientist

Organization Name: Terracon Consultants, Inc.

Phone No.: 713-690-8989 Ext.: Click here to enter text.

E-mail: ryan.haney@terracon.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: Midland County Centennial Library

Location within the building: Public Viewing Area

Physical Address of Building: 2503 W Loop 250 N

City: Midland County: Midland

Contact Name: Tiffany London

Phone No.: (432) 688-4328 Ext.: Click here to enter text.

E. Bilingual Notice Requirements:

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

F. 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: 02-Public Involvement Plan Form-tceq-20960

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. **RN** Click here to enter text

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

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

Midland TPL1 Wastewater Treatment Plant

C. Owner of treatment facility: Paloma Wastewater Services LLC

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

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

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: Texas Pacific Resources LLC

Mailing Address: 1700 Pacific Avenue Suite 2900

City, State, Zip Code: Dallas, TX 75201

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

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

Attachment: 03-Land Lease Agreement

E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: Texas Pacific Resources LLC

Mailing Address: 1700 Pacific Avenue Suite 2900

City, State, Zip Code: Dallas, TX 75201

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

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

Attachment: 03 - Land Lease Agreement

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): Click here to enter text.

First and Last Name: Click here to enter text.

Mailing Address: Click here to enter text.

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

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

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

Attachment: Click here to enter text.

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:

Located at 2311 W FM 1787 in Midland, Texas 79706

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:

Effluent discharged via Outfall 001 through a pipe to Johnson Draw thence to Mustang Draw thence to Segment 1412B of Beals Creek.

City nearest the outfall(s): Midland

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

Outfall Latitude: ˚ 31˚42'36.64"N Longitude: ˚102˚ 1'17.75"W

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: Click here to enter text.

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

Click here to enter text.

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:

Click here to enter text.

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

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

D. Disposal Site Latitude: Click here to enter text. Longitude: Click here to enter text.

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

Click here to enter text.

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

Click here to enter text.

Section 12. Miscellaneous Information (Instructions Page 37)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click here to enter text

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

☐ Yes ☒ No

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

Click here to enter text

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: Click here to enter text Amount past due: Click here to enter text

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: Click here to enter text Amount past due: Click here to enter text

Section 13. Attachments (Instructions Page 38)

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

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

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

- Applicant's property boundary

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Click here to enter text.

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: N/A

Applicant: Paloma Wastewater Services LLC

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Alex Epley

Signatory title: Registered Agent

Signature:_____ Date:_____

(Use blue ink)

Subscribed and Sworn to before me by the said_____

on this_____ day of_____, 20_____.

My commission expires on the_____ day of_____, 20_____.

_____

Notary Public *[SEAL]*

_____

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.
Paloma Wastewater Services LLC (CN606106979) proposes to operate Midland TPL1 Wastewater Treatment Plant . a Domestic wastewater treatment plant . The facility will be located at 2311 W FM 1787, in Midland, TX, Midland County, Texas 79706.

A new application to discharge 150,000 gallons per day of treated domestic wastewater. The site will include one outfall.

Discharges from the facility are expected to contain Total Suspended Solids, BOD, Ammonia, Phosphorous, pH, Dissolved Oxygen, Chlorine, E. Coli, Oil and Grease, and Total Dissolved Solids. Domestic Wastewater will be treated by activated sludge package plant that operates in the single-stage nitrification mode. The package plant process units include preliminary screening, aeration, clarification, and treated with chlorine prior to dischargingan activated sludge package plant that operates in the single-stage nitrification mode. The package plant process units include preliminary screening, (1) aeration basins, (1) secondary clarifier, (1) chlorine contact basin, and (1) digester. The aeration basin will be sized to provide the treatment volume required to treat the Phase I organic load of 187 lb/day BOD5. The clarifier and chlorine contact basin will each be designed to handle a hydraulic peak flow rate of 156 gpm. A manual bar screen will be provided during this phase for preliminary screening his facility will be equipped with one (1) influent flow equalization basin that will be hydraulically connected, collectively providing approximately 49,800 gallons of equalization volume. A facility of this type is not subject to the diurnal variations characteristic of traditional, municipal wastewater plants. Considering the nature of wastewater conveyance to the plant, the presence of this amount of equalization volume shall allow for a continuous, equalized wastewater flow to the activated sludge and other downstream processes. This allows for the use of a design peaking factor that is less than that dictated by the regulations. For this project, a design peak factor of 1.5 will be employed in the design of the clarifier, chlorine contact basin, and interconnecting piping. This is also in alignment with the design approach of the other, similar facilities.

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.

Paloma Wastewater Services LLC. (CN606106979)propone operar Midland TPL1 Wastewater Treatment Plant. Una Planta de aguas residuales domésticas. La instalación estará ubicada en 2311 W FM 1787, en la ciudad de Midland, Condado de Midland, Texas 7 .
Esta solicitud es para un nuevo permiso para la descarga de aguas residuales domesticas tratadas en un flujo promedio diario de 150,000 gallones.
Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan Solidos Supendidos Totales, BOD, Amoniaco, Fosforo, pH, Oxígeno Disuelto, Cloro, E. Coli, Aceites y Grasas, y Sólidos Disueltos Totales Aguas Domesticas residuales. estara tratado por una planta de lodo activado que operara en una fase simple de nitrificación. La planta incluye una unidad de aireación, una unidad clarificadora, una unidad de contacto con cloro y una unidad digeridora.

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 contengan14. 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.

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: Midland County CAD

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: Paloma Wastewater Services, LLC

   Permit No. WQ00 Click here to enter text EPA ID No. TX Click here to enter text

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

   2311 W FM 1787
   Midland, Texas 79706

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: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Registered Agent

Mailing Address: 2000 Bering Dr. Suite 401

City, State, Zip Code: Houston, Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: aaepley@gmail.com

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

Texas Pacific Resources LLC

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.

Discharge to Johnson Draw thence to Mustang Draw thence to Segment 1412B of Beals Creek.

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):

N/A

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

Private Land limited disturbance

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:

N/A

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

Approximately 632.96 acres owned by Texas Pacific Resources in Midland County ,Texas. Purchased in 2021.

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** Click here to enter text

1. Check or Money Order Number: Click here to enter text
2. Check or Money Order Amount: Click here to enter text
3. Date of Check or Money Order: Click here to enter text
4. Name on Check or Money Order: Click here to enter text
5. APPLICATION INFORMATION

   Name of Project or Site: Midland TPL1 Wastewater Treatment Plant

   Physical Address of Project or Site: 2311 W FM 1787 Midland, TX 79706

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

Staple Check or Money Order in This Space

THIS PAGE INTENTIONALLY LEFT BLANK

Section 1. Individual Information (Instructions Page 50)

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

Prefix (Mr., Ms., Miss): Click here to enter text.

Full legal name (first, middle, last): Click here to enter text.

Driver's License or State Identification Number: Click here to enter text.

Date of Birth: Click here to enter text.

Mailing Address: Click here to enter text.

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

Phone Number: Click here to enter text. Fax Number: Click here to enter text.

E-mail Address: Click here to enter text.

CN: Click here to enter text.

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

☐ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application.)*

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☒ Other **Update Mailing Address**

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 606226629		RN

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* *If new Customer, enter previous Customer below:*

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☐ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☐ Owner & Operator ☐ Other:
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address:	2000 Bering Dr. Suite 401							
	City	Houston	**State**	TX	**ZIP**	77057	**ZIP + 4**	3746

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*

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.)*

23. Street Address of the Regulated Entity: *(No PO Boxes)*								
	City		State		ZIP		ZIP + 4	
24. County								

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

25. Description to Physical Location:						
26. Nearest City				State		Nearest ZIP Code
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:			28. Longitude (W) In Decimal:			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	

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)

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*								
34. Mailing Address:								
	City		State		ZIP		ZIP + 4	
35. E-Mail Address:								

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
( ) -		( ) -

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.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Ryan Haney	41. Title:	Senior Staff Scientist

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(713) 690-8989		( ) -	ryan.haney@terracon.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:	Terracon Consultants	Job Title:	Senior Staff Scientist
Name *(In Print):*	Ryan Haney	Phone:	(713) 690- 8989
Signature:		Date:	9/1/2024

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
DOMESTIC WASTEWATER/STORMWATER

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

Paloma Wastewater Services LLC (CN606106979) proposes to operate **Midland TPL1 Wastewater Treatment Plant** (RN), a domestic wastewater treatment plant. The facility will be located at 2311 W FM 1787, in Midland, Midland County, Texas 79706. This is a new application to discharge 150,000 gallons per day of treated domestic wastewater. The site will include one outfall.

Discharges from the facility are expected to contain Total Suspended Solids, BOD, Ammonia, Phosphorous, pH, Dissolved Oxygen, Chlorine, E. Coli, Oil and Grease, and Total Dissolved Solids. Domestic Wastewater will be treated by aeration and clarification, and disinfected with chlorine prior to discharging via the permitted outfall.

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

AGUAS RESIDUALES DOMÉSTICAS **/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.

Paloma Wastewater Services LLC (CN606106979) propone operar Midland TPL1 Wastewater Treatment Plant RN, un planta de tratamiento de aguas residuales domésticas . La instalación estará ubicada en 2311 W FM 1787, en Midland, Condado de Midland, Texas 79706. Se trata de una nueva solicitud para descargar 150,000 galones por día de aguas residuales domésticas tratadas. El sitio incluirá un emisario.

Se espera que las descargas de la instalación contengan Sólidos suspendidos totales, BOD, amoníaco, fósforo, pH, oxígeno disuelto, cloro, E. coli, aceites y grasas y sólidos disueltos totales . aguas residuales domésticas . estará tratado por tratados mediante aireación y clarificación, y desinfectados con cloro antes de su vertido por el emisario permitido.

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): 0.075

2-Hr Peak Flow (MGD): 0.113

Estimated construction start date: December 1, 2024

Estimated waste disposal start date: May 1, 2025

B. Interim II Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: TBD

Estimated waste disposal start date: TBD

C. Final Phase

Design Flow (MGD): 0.150

2-Hr Peak Flow (MGD): 0.225

Estimated construction start date: TBD

Estimated waste disposal start date: TBD

D. Current operating phase: Pre-Construction

Provide the startup date of the facility: May 1, 2025

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:

Phase 1 (75,000 GPD)The proposed WWTP will be designed as an activated sludge package plant that operates in the single- stage nitrification mode. The package plant process units include preliminary screening, (1) equalization basin, (2) aeration basins, (1) secondary clarifier, (1) chlorine contact basin, and (2) digesters. The aeration basin will be sized to provide the treatment volume required to treat the Phase 1 organic load of 203.29 lb/day BOD5. The clarifier and chlorine contact basin will each be designed to handle a hydraulic peak flow rate of 0.83 gpm/sf. A manual bar screen will be provided during this phase for preliminary screening. This facility will be equipped with one (1) influent flow equalization basin that will be hydraulically connected, collectively providing approximately 49,805 gallons of equalization volume. A facility of this type is not subject to the diurnal variations characteristic of traditional, municipal wastewater plants. Considering the nature of wastewater conveyance to the plant, the presence of this amount of equalization volume shall allow for a continuous, equalized wastewater flow to the activated sludge and other downstream processes. This allows for the use of a design peaking factor that is less than that dictated by the regulations. For this project, a design peak factor of 1.5 will be employed in the design of the clarifier, chlorine contact basin, and interconnecting piping. This is also in alignment with the design approach of the other, similar facilities.
Final Phase (150,000 GPD)The proposed WWTP expansion will be designed as an activated sludge package plant that operates in the single-stage nitrification mode. The Phase 1 treatment units will remain in operation and the following additional treatment units will be installed and function in conjunction with the existing plant: (1) new flow equalization basin, (1) new aeration basin, and (1) new digester. The bar screen installed in Phase 1 will be replaced with a larger bar screen box that will also function as a splitter box to distribute wastewater for equal apportionment of inflow to both phases of the treatment plant. This facility will be equipped with (2) influent flow equalization basins that will be hydraulically connected, collectively providing approximately 99,610 gallons of equalization volume. A facility of this type is not subject to the diurnal variations characteristic of traditional, municipal wastewater plants. Considering the nature of wastewater conveyance to the plant, the presence of this amount of equalization volume shall allow for a continuous, equalized wastewater flow to the activated sludge and other downstream processes. This allows for the use of a design peaking factor that is less than that dictated by the regulations. For this project, a design peak factor of 1.5 will be employed in the design of the clarifier, chlorine contact basin, and interconnecting piping. This is also in alignment with the design approach of the other, similar facilities.

Port or pipe diameter at the discharge point, in inches: 6 inch PVC

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)
Flow Equalization (Ph. 1)	1	52'-0" x 12' x 12'-2"
Aeration (Ph. 1)	2	32'-0" x 12 x 12-2"
Clarifier (Ph. 1)	1	19'-5" Dia. X 14'-2"
Chlorine Contact Chamber (Ph.1)	1	10'-0" x 11'-0" x 12'-2"
Digester (Ph. 1)	2	20' -0" x 12'-0" x 12'-2"
Adding During Final Phase		
Flow Equalization	1	52'-0" x 12' x 12'-2"
Aeration	1	32'-0" x 12'-0" x 12'-2"
Digester	1	20'-0" x 12'-0" x 12'-2"

C. Process flow diagrams

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

Attachment: 07 - Midland TX Process Flow Diagram Phase 1-2

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: 08 – Service Area Map

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

The area to be serviced by this treatment plant includes areas in and surrounding Midland, Texas and Midland County. This treatment plant will process domestic wastewater produced offsite that will be transported via permitted trucks to the facility. The influent will not be transported via connected pipeline network.

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.

Click here to enter text

Section 5. Closure Plans (Instructions Page 53)

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Click here to enter text.

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: Click here to enter text.

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

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.

Property Ownership by the permittee surrounding the facility meets the conditions of the buffer zone.

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*.

Click here to enter text.

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.

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.

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.

E. Stormwater management

1. Applicability

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

Yes ☐ No ☒

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

Yes ☐ No ☒

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

2. MSGP coverage

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

Yes ☐ No ☐

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

TXR05 Click here to enter text. or TXRNE Click here to enter text.

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

Yes ☐ No ☐

3. Conditional exclusion

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

Yes ☐ No ☐

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

4. Existing coverage in individual permit

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

Yes ☐ No ☐

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

Click here to enter text.

5. Zero stormwater discharge

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

Yes ☐ No ☐

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

Click here to enter text

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

6. Request for coverage in individual permit

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

Yes ☐ No ☐

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

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 BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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 BOD_5 concentration of the septic waste, and the design

BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click here to enter text

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

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.

Click here to enter text

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). **W*ater 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					
E.coli (CFU/100ml) freshwater					
Entercocci (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: TBD

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

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

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: Click here to enter text.

B. Sludge disposal site

Disposal site name: City of Midland Landfill

TCEQ permit or registration number: 1605B

County where disposal site is located: Midland

C. Sludge transportation method

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

Name of the hauler: TBD

Hauler registration number: TBD

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: Click here to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click here to enter text.
- Federal Emergency Management Map:

  Attachment: Click here to enter text.
- Site map:

  Attachment: Click here to enter text.

Discuss in a description if any of the following exist within the lagoon area.

Check all that apply.

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click here to enter text.

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

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click here to enter text.

Potassium, mg/kg: Click here to enter text.

pH, standard units: Click here to enter text.

Ammonia Nitrogen mg/kg: Click here to enter text.

Arsenic: Click here to enter text.

Cadmium: Click here to enter text.

Chromium: Click here to enter text.

Copper: Click here to enter text.

Lead: Click here to enter text.

Mercury: Click here to enter text.

Molybdenum: Click here to enter text.

Nickel: Click here to enter text.

Selenium: Click here to enter text.

Zinc: Click here to enter text.

Total PCBs: Click here to enter text.

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 $1x10^{-7}$ cm/sec?

Yes ☐ No ☐

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

D. Site development plan

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

Click here to enter text.

Attach the following documents to the application.

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

  Attachment: Click here to enter text.
- Copy of the closure plan

  Attachment: Click here to enter text.
- Copy of deed recordation for the site

  Attachment: Click here to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet

and gallons

Attachment: Click here to enter text

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

  Attachment: Click here to enter text

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click here to enter text

E. Groundwater monitoring

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

Yes ☐ No ☐

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

Attachment: Click here to enter text

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

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:

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Click here to enter text

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

A. RCRA hazardous wastes

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

Yes ☐ No ☒

B. Remediation activity wastewater

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

Yes ☐ No ☒

C. Details about wastes received

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

Attachment: Click here to enter text

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: Alex Epley

Title: Registered Agent

Signature: _____

Date: _____

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.

According to the Texas Commission on Environmental Quality, there is no other permitted wastewater treatment plant located in a three-mile radius of the proposed site of Midland TPL1 Wastewater Treatment Plant. Midland TPL1 Wastewater Treatment Plant will treat and dispose of domestic wastewater generated at oil and gas production sites and associated housing locations within a 15-mile radius of the plant. According to Texas Water Development Board Groundwater Data Viewer, there is an estimated 57 active wells, 106 proposed use of fracking wells, and 439 wells with a proposed use of rig supply. The average fracking and rig well site operates with two teams of six people per day. When not at the rig or fracking site, the people will stay at nearby housing facilities designed for field personnel with likely up to 60 mobile home units per site. Wastewater transport trucks will bring the domestic wastewater generated at the housing sites to Midland TPL1 Wastewater Treatment Plant for treatment and disposal. As each person generates on average 100 gallons of wastewater per day and a maximum of 3,612 people working within a 15-mile radius of the proposed wastewater site at any given time, there is a need to treat a maximum of 361,200 gallons of wastewater per day and the probability that some of the fracking and rig well sites are not in continuous operation, Midland TPL1 Wastewater Treatment Plant intends to begin construction of Phase One by May 1, 2025 to treat a maximum of 75,000 gallons of wastewater per day from these sites. As the oil and gas field expands in the vicinity and the need for additional treatment is needed, Midland TPL1 Wastewater Treatment Plant will expand to meet the demand in the Final Phase of the permit. According to U.S. Energy Information Administration, oil production in Texas has increased over 500% since 2010. With this information, it is anticipated that oil production will steadily increase in Texas and the need to expand to Phase Two and Three will occur within the next three to five years depending on economics and demand.

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: Click here to enter text.

If yes, attach correspondence from the city.

Attachment: Click here to enter text.

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

Attachment: Click here to enter text.

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: Click here to enter text.

3. Nearby WWTPs or collection systems

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

Yes ☐ No ☒

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

Attachment: Click here to enter text.

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

Attachment: Click here to enter text.

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: Click here to enter text.

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): Click here to enter text.

Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click here to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): Click here to enter text.

Provide the source of the average organic strength or BOD_5 concentration.

Click here to enter text.

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
Hospital		
Nursing home		
Other	0.075 MGD	325 mg/L
TOTAL FLOW from all sources	0.075 MGD	
AVERAGE BOD_5 from all sources		325 mg/L

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: 10 mg/L

Total Suspended Solids, mg/l: 15 mg/L

Ammonia Nitrogen, mg/l: 3 mg/L

Total Phosphorus, mg/l: Click here to enter text.

Dissolved Oxygen, mg/l: Click here to enter text.

Other: Click here to enter text.

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click here to enter text.

Total Suspended Solids, mg/l: Click here to enter text.

Ammonia Nitrogen, mg/l: Click here to enter text.

Total Phosphorus, mg/l: Click here to enter text.

Dissolved Oxygen, mg/l: Click here to enter text.

Other: Click here to enter text.

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15 mg/L

Ammonia Nitrogen, mg/l: 3 mg/L

Total Phosphorus, mg/l: Click here to enter text.

Dissolved Oxygen, mg/l: Click here to enter text.

Other: Click here to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: 1.0-4.0 mg/l after 20 minutes detention time at peak flow

Dechlorination process: Click here to enter text.

☐ Ultraviolet Light: Click here to enter text. seconds contact time at peak flow

☐ Other: Click here to enter text.

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: 09 – Domestic Technical Report 1.1(5)(a) Process Calculations

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.

Click here to enter text.

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

Fema.gov flood map service center – Flood Map 48329C0475F effective September 16, 2005

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

Yes ☐ No ☒

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

Yes ☐ No ☐

If yes, provide the permit number: Click here to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click here to enter text.

B. Wind rose

Attach a wind rose. **Attachment**: 10 - 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: Click here to enter text.

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

Attachment: Click here to enter text.

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

Attach a solids management plan to the application.

Attachment: 11 -Domestic Technical Report 1.1(7) Sludge 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.

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: Click here to enter text.

Distance and direction to the intake: Click here to enter text.

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

Attachment: Click here to enter text.

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: Click here to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

Yes ☐ No ☐

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

Click here to enter text.

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

Yes ☐ No ☐

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

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: **Unnamed intermittent stream thence to Johnson Draw thence to Mustang Draw thence to Segment 1412B of Beals 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: Click here to enter text

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

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

☒ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click here to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☒ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☒ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click here to enter text.

C. Downstream perennial confluences

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

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.

Click here to enter text

E. Normal dry weather characteristics

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

Intermittent flow prior to the confluence with Beal's Creek.

Date and time of observation:

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 Click here to enter text

B. Waterbody uses

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

☐ Livestock watering
☐ Contact recreation

☐ Irrigation withdrawal ☐ Non-contact recreation

☐ Fishing ☐ Navigation

☐ Domestic water supply ☐ Industrial water supply

☐ Park activities ☒ Other(s), specify N/A; intermittent flow

C. Waterbody aesthetics

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

☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional

☒ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid

☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC 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: Click here to enter text. Time of study: Click here to enter text.

Stream name: Click here to enter text.

Location: Click here to enter text.

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 75)

Number of stream bends that are well defined: Click here to enter text.

Number of stream bends that are moderately defined: Click here to enter text.

Number of stream bends that are poorly defined: Click here to enter text.

Number of riffles: Click here to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Click here to enter text.

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.
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 76)

Streambed slope of entire reach, from USGS map in feet/feet: Click here to

enter text

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): Click here to enter text

Length of stream evaluated, in feet: Click here to enter text

Number of lateral transects made: Click here to enter text

Average stream width, in feet: Click here to enter text

Average stream depth, in feet: Click here to enter text

Average stream velocity, in feet/second: Click here to enter text

Instantaneous stream flow, in cubic feet/second: Click here to enter text

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): Click here to enter text

Size of pools (large, small, moderate, none): Click here to enter text

Maximum pool depth, in feet: Click here to enter text

DOMESTIC WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications

Renewal, New, and Amendments

Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click here to enter text.
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: Click here to enter text.

Section 2. Land Application Site(s) (Instructions Page 77)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 77)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Click here to enter text

Section 4. Flood and Runoff Protection (Instructions Page 77)

Is the land application site within the 100-year frequency flood level?

Yes ☐ No ☐

If yes, describe how the site will be protected from inundation.

Click here to enter text

Provide the source used to determine the 100-year frequency flood level:

Click here to enter text.

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

Click here to enter text.

Section 5. Annual Cropping Plan (Instructions Page 77)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why.

Attachment: Click here to enter text.

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 78)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

Attachment: Click here to enter text.

- The boundaries of the land application site(s)

- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1 mile of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: Click here to enter text.

Section 7. Groundwater Quality (Instructions Page 79)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table

provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: Click here to enter text.

Are groundwater monitoring wells available onsite? Yes ☐ No ☐

Do you plan to install ground water monitoring wells or lysimeters around the land application site? Yes ☐ No ☐

If yes, then provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: Click here to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 79)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: Click here to enter text.

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note**: for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: Click here to enter text.

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 80)

Is the facility in operation?

Yes ☐ No ☐

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD_5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Date	30 Day Avg Flow MGD	BOD_5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Click here to enter text

DOMESTIC WORKSHEET 3.1

SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 81)

Complete the item that applies for the method of disposal being used.

A. Irrigation

Area under irrigation, in acres: Click here to enter text.

Design application frequency:

hours/day Click here to enter text. **And** days/week Click here to enter text.

Land grade (slope):

average percent (%): Click here to enter text.

maximum percent (%): Click here to enter text.

Design application rate in acre-feet/acre/year: Click here to enter text.

Design total nitrogen loading rate, in lbs N/acre/year: Click here to enter text.

Soil conductivity (mmhos/cm): Click here to enter text.

Method of application: Click here to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: Click here to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: Click here to enter text.

Attach a separate engineering report with the water balance and storage volume calculations.

Attachment: Click here to enter text.

C. Evapotranspiration beds

Number of beds: Click here to enter text.

Area of bed(s), in acres: Click here to enter text.

Depth of bed(s), in feet: Click here to enter text.

Void ratio of soil in the beds: Click here to enter text.

Storage volume within the beds, in acre-feet: Click here to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

Attachment: Click here to enter text.

D. Overland flow

Area used for application, in acres: Click here to enter text.

Slopes for application area, percent (%): Click here to enter text.

Design application rate, in gpm/foot of slope width: Click here to enter text.

Slope length, in feet: Click here to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click here to enter text.

Design application frequency:

hours/day: Click here to enter text. **And** days/week: Click here to enter text.

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217*.

Attachment: Click here to enter text.

Section 2. Edwards Aquifer (Instructions Page 82)

Is the facility subject to *30 TAC Chapter 213*, Edwards Aquifer Rules?

Yes ☐ No ☐

If yes, attach a report concerning the recharge zone.

Attachment: Click here to enter text.

DOMESTIC WORKSHEET 3.2

SUBSURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications. Renewal and minor amendments may require the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that does not meet the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 83)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: Click here to enter text.

Application area, in acres: Click here to enter text.

Area of drainfield, in square feet: Click here to enter text.

Application rate, in gal/square foot/day: Click here to enter text.

Depth to groundwater, in feet: Click here to enter text.

Area of trench, in square feet: Click here to enter text.

Dosing duration per area, in hours: Click here to enter text.

Number of beds: Click here to enter text.

Dosing amount per area, in inches/day: Click here to enter text.

Infiltration rate, in inches/hour: Click here to enter text.

Storage volume, in gallons: Click here to enter text.

Area of bed(s), in square feet: Click here to enter text.

Soil Classification: Click here to enter text.

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of *§* 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: Click here to enter text.

Section 2. Edwards Aquifer (Instructions Page 83)

Is the subsurface system located on the Edwards Aquifer Recharge Zone as mapped by the TCEQ?

Yes ☐ No ☐

Is the subsurface system located on the Edwards Aquifer Transition Zone as mapped by the TCEQ?

Yes ☐ No ☐

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WORKSHEET 3.3

SUBSURFACE AREA DRIP DISPERSAL SYSTEM (SADDS) LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment subsurface area drip dispersal system applications. Renewal and minor amendments may require the worksheet on a case by case basis.

NOTE: All applicants proposing new or amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that meets the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Administrative Information (Instructions Page 84)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility.

Click here to enter text.

B. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

Yes ☐ No ☐

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

Click here to enter text.

C. Owner of the subsurface area drip dispersal system:

Click here to enter text.

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

Yes ☐ No ☐

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

Click here to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located:

Click here to enter text.

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

Yes ☐ No ☐

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

Click here to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 84)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click here to enter text.

B. Irrigation operations

Application area, in acres: Click here to enter text.

Infiltration Rate, in inches/hour: Click here to enter text.

Average slope of the application area, percent (%): Click here to enter text.

Maximum slope of the application area, percent (%): Click here to enter text.

Storage volume, in gallons: Click here to enter text.

Major soil series: Click here to enter text.

Depth to groundwater, in feet: Click here to enter text.

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool

season grasses during the winter months (October-March)?

Yes ☐ No ☐

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

Yes ☐ No ☐

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

Yes ☐ No ☐

Hydraulic application rate, in gal/square foot/day: Click here to enter text.

Nitrogen application rate, in lbs/gal/day: Click here to enter text.

D. Dosing information

Number of doses per day: Click here to enter text.

Dosing duration per area, in hours: Click here to enter text.

Rest period between doses, in hours: Click here to enter text.

Dosing amount per area, in inches/day: Click here to enter text.

Number of zones: Click here to enter text.

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

Yes ☐ No ☐

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: Click here to enter text.

Section 3. Required Plans (Instructions Page 84)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79*.

Attachment: Click here to enter text.

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73*.

Attachment: Click here to enter text.

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75*.

Attachment: Click here to enter text.

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157*.

Attachment: Click here to enter text.

Section 4. Floodway Designation (Instructions Page 85)

A. Site location

Is the existing/proposed land application site within a designated floodway?

Yes ☐ No ☐

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: Click here to enter text.

Section 5. Surface Waters in the State (Instructions Page 85)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: Click here to enter text.

B. Buffer variance request

Do you plan to request a buffer variance from water wells or waters in the state?

Yes ☐ No ☐

If yes, then attach the additional information required in *30 TAC § 222.81(c).*

Attachment: Click here to enter text.

Section 6. Edwards Aquifer (Instructions Page 85)

A. Is the SADDS located on the Edwards Aquifer Recharge Zone as mapped by the TCEQ?

Yes ☐ No ☐

B. Is the SADDS located on the Edwards Aquifer Transition Zone as mapped by the TCEQ?

Yes ☐ No ☐

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES REQUIREMENTS*

The following is required for facilities with a permitted or proposed flow of 1.0 MGD or greater, facilities with an approved pretreatment program, or facilities classified as a major facility. See instructions for further details.

This worksheet is not required for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click here to enter text

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) **(*1)**				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Cyanide **(*2)**				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Diuron				0.09
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Ethylbenzene				10
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane (Lindane)				0.05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0.5
Malathion				0.1

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10
Polychlorinated Biphenyls (PCB's) **(*3)**				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable.

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click here to enter text

Table 4.0(2)A – Metals, Cyanide, Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide (*2)				10
Phenols, Total				10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein				50
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane [Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol				10
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol				20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentalchlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo-benzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin				0.01
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a "<".

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

☐ 2,4,5-trichlorophenoxy acetic acid
Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol
Common Name TCP, CASRN 95-95-4

☐ hexachlorophene
Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

Click here to enter text

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

Yes ☐ No ☐

If **yes**, provide a brief description of the conditions for its presence.

Click here to enter text.

If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click here to enter text.

TABLE 4.0(2)F - DIOXIN/FURAN COMPOUNDS

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WORKSHEET 5.0

TOXICITY TESTING REQUIREMENTS

The following is required for facilities with a currently-operating design flow greater than or equal to 1.0 MGD, with an EPA-approved pretreatment program (or those that are required to have one under 40 CFR Part 403), or are required by the TCEQ to perform Whole Effluent Toxicity testing. This worksheet is not required for minor amendments without renewal.

Section 1. Required Tests (Instructions Page 97)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: Click here to enter text.

48-hour Acute: Click here to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

Yes ☐ No ☐

If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

Click here to enter text.

Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

Table 5.0(1) – Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

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: Click here to enter text.

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

Significant IUs – non-categorical:

Number of IUs: Click here to enter text.

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

Other IUs:

Number of IUs: Click here to enter text.

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

B. Treatment plant interference

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

Yes ☐ No ☐

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

Click here to enter text.

C. Treatment plant pass through

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

Yes ☐ No ☐

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

Click here to enter text

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☐ No ☐

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐ No ☐

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

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

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

A. Substantial modifications

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

Yes ☐ No ☐

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

Click here to enter text

B. Non-substantial modifications

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

Yes ☐ No ☐

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

Click here to enter text

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

Yes ☐ No ☐

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

Click here to enter text

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

A. General information

Company Name: Click here to enter text

SIC Code: Click here to enter text

Telephone number: Click here to enter text Fax number: Click here to enter text

Contact name: Click here to enter text

Address: Click here to enter text

City, State, and Zip Code: Click here to enter text

B. Process information

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

Click here to enter text

C. Product and service information

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

Click here to enter text.

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: Click here to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: Click here to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

Yes ☐ No ☐

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

Yes ☐ No ☐

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

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

Category: Click here to enter text.
Subcategories: Click here to enter text.

F. Industrial user interruptions

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

Yes ☐ No ☐

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

Click here to enter text

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit to:
TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 102)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): Click here to enter text.
Program ID: Click here to enter text.
Contact Name: Click here to enter text.
Phone Number: Click here to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click here to enter text.
Address: Click here to enter text.
City, State, and Zip Code: Click here to enter text.
Phone Number: Click here to enter text.

3. Owner/Operator Contact Information

Owner ☐ Operator ☐
Owner/Operator Name: Click here to enter text.
Contact Name: Click here to enter text.
Address: Click here to enter text.
City, State, and Zip Code: Click here to enter text.
Phone Number: Click here to enter text.

4. Facility Contact Information

Facility Name: Click here to enter text.

Address: Click here to enter text.

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

Location description (if no address is available): Click here to enter text.

Facility Contact Person: Click here to enter text.

Phone Number: Click here to enter text.

5. Latitude and Longitude, in degrees-minutes-seconds

Latitude: Click here to enter text. Longitude: Click here to enter text.

Method of determination (GPS, TOPO, etc.): Click here to enter text.

Attach topographic quadrangle map as attachment A.

6. Well Information

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: Click here to enter text.

Number of Injection Wells: Click here to enter text.

7. Purpose

Detailed Description regarding purpose of Injection System:

Click here to enter text.

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. Water Well Driller/Installer

Water Well Driller/Installer Name: Click here to enter text.

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

Phone Number: Click here to enter text.

License Number: Click here to enter text.

Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

Table 7.0(1) –Down Hole Design Table

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
Casing					
Tubing					
Screen					

Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: Click here to enter text.

System(s) Construction: Click here to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Click here to enter text.
2. Receiving Formation Name of Injection Zone: Click here to enter text.
3. Well/Trench Total Depth: Click here to enter text.
4. Surface Elevation: Click here to enter text.
5. Depth to Ground Water: Click here to enter text.
6. Injection Zone Depth: Click here to enter text.
7. Injection Zone vertically isolated geologically? Yes ☐ No ☐

Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

Name: Click here to enter text.

Thickness: Click here to enter text.

8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

   Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

   Attach as Attachment F.

10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

    Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

    Attach as Attachment H.

12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click here to enter text

13. Maximum injection Rate/Volume/Pressure: Click here to enter text

14. Water wells within 1/4 mile radius (attach map as Attachment I): Click here to enter text

15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click here to enter text

16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click here to enter text

17. Sampling frequency: Click here to enter text

18. Known hazardous components in injection fluid: Click here to enter text

Section 5. Site History

1. Type of Facility: Click here to enter text

2. Contamination Dates: Click here to enter text

3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): Click here to enter text

4. Previous Remediation: Click here to enter text

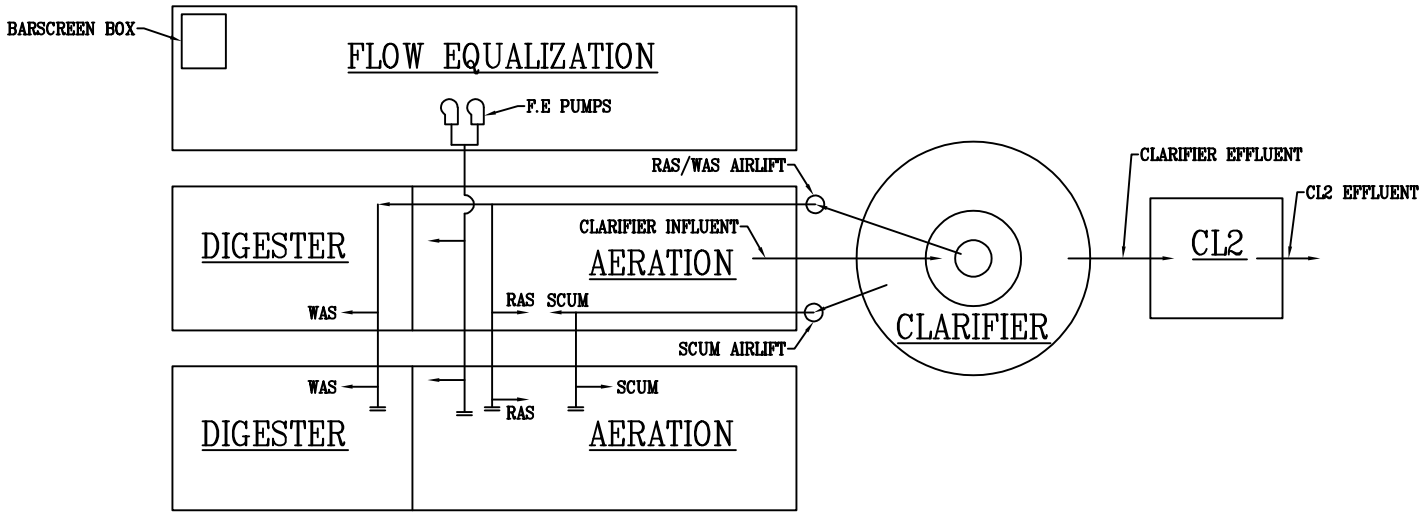
   Attach results of any previous remediation as attachment M

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can

begin. Attach additional pages as necessary.

Class V Injection Well Designations

5A07	Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19	Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
5B22	Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
5D02	Storm Water Drainage (IW designed for the disposal of rain water)
5D04	Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
5F01	Agricultural Drainage (IW that receive agricultural runoff)
5R21	Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23	Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
5W09	Untreated Sewage
5W10	Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
5W11	Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
5W12	WTTP disposal
5W20	Industrial Process Waste Disposal Wells
5W31	Septic System (Well Disposal method)
5W32	Septic System Drainfield Disposal
5X13	Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25	Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26	Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27	Other Wells
5X28	Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29	Abandoned Drinking Water Wells (waste disposal)



PROCESS FLOW DIAGRAM

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY OTHER PROJECT THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION BY AUC Group.

TPL #1
75,000 GPD

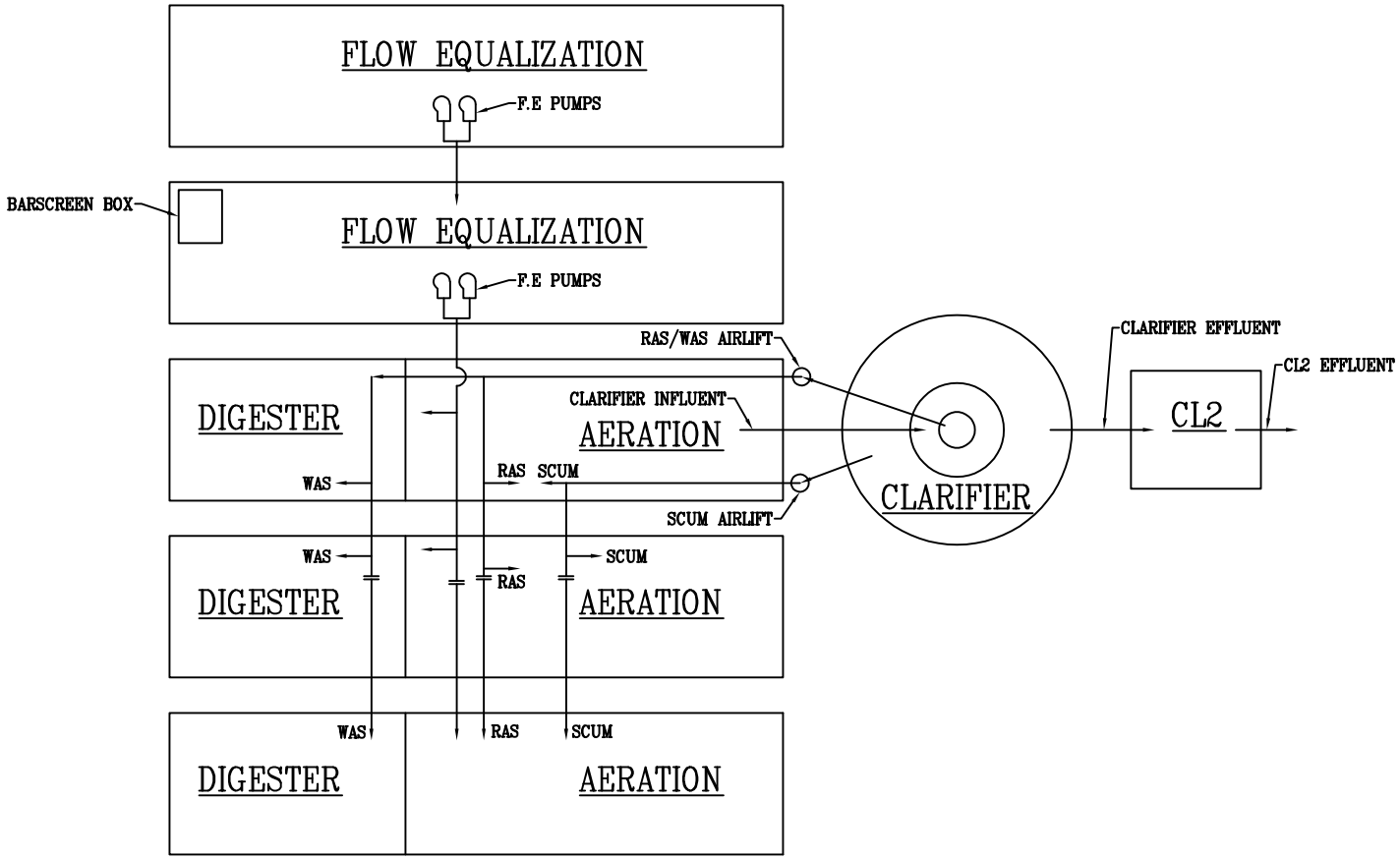
WASTEWATER TREATMENT PLANT

SCALE: N/A	APPROVED BY: HS	DRAWN BY: EV
DATE: 5/8/2024		REVISED:

AUC GROUP

PROCESS FLOW DIAGRAM

DRAWING NUMBER: WW0000-01



PROCESS FLOW DIAGRAM

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY OTHER PROJECT THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION BY AUC Group.

TPL #1
150,000 GPD

WASTEWATER TREATMENT PLANT

SCALE: N/A	APPROVED BY: HS	DRAWN BY: EV
DATE: 5/8/2024		REVISED:

AUC GROUP

PROCESS FLOW DIAGRAM

DRAWING NUMBER: WW0000-01

TPL #1 - 75,000 GPD

Phase 1

Data	Quantity			
Permitted Average Daily Flow	75,000	gpd	52 gpm	0.116 cfs
Peak 2-hour Flow	112,500	gpd	78 gpm	0.174 cfs
BOD5 Loading	325	mg/l		
Maximum Aeration Zone Loading	35	lbs of BOD5 / 1,000 cf		
Minimum Aerobic Digester Loading	20	cf/lbs of BOD5/day		
Minimum SRT for Digester	40	days	@ 1.5	% Concentration
Maximum Clarifier Surface Loading	1,200	gpd/sf (@ peak flow)		
Minimum Clarifier Detention Time	1.8	hr (@ peak flow)		
Minimum Disinfection Basin Detention Time	20	min (@ peak flow)		
Air Supply (Aeration Zone)	3,200	scfm/day/lb of BOD5		
Air Supply (Aerobic Digester)	30	scfm/1,000 cf of volume		
Air Supply (Disinfection)	20	scfm/1,000 cf of volume		

Calculations of Requirements

BOD5 Loading 203.29 lbs/day

Unit Requirements	Quantity
Flow Equalization	3,485 cf
Aeration Zone Volume	5,808 cf
Aerobic Digester Volume at Minimum Loading	4,066 cf
Aerobic Digester Volume at Minimum SRT	2,439 cf
Clarifier Surface Area	94 sf
Clarifier Volume at Minimum Detention Time	1,128 cf
Disinfection Volume	209 cf

Air Supply Requirements	Quantity
Aeration Process	424 scfm
Digester	154 scfm
Disinfection	18 scfm
Air Lift Pumps & Initial Mixing	76 scfm
Total Air Required	672 scfm

Note: The process calculation is based on 10' of submergence with a correction factor of 1.56 and clean water transfer efficiency of 0.85% per foot of submergence.

Proposed Unit Features

Proposed Units	Quantity	#Units	Length	Width	Height	SWD
Flow Equalization	6,658 cf	1	52	12	12.17	10.67
Aeration Zone Volume	7,526 cf	2	32	12	12.17	9.80
Aerobic Digester Volume	5,122 cf	2	20	12	12.17	10.67
Clarifier Surface Area (Oversized)	299 sf	1		19.5	14.17	
Clarifier Volume	2,664 cf					8.92
Chlorine Contact Volume (Oversized)	880 cf	1	10	11	12.17	8.00
Blowers	400 scfm	3	20.0 hp			

TPL #1 - 150,000 GPD

Phase 2

Data	Quantity			
Permitted Average Daily Flow	150,000 gpd	104 gpm	0.232 cfs	
Peak 2-hour Flow	225,000 gpd	156 gpm	0.348 cfs	
BOD5 Loading	325 mg/l			
Maximum Aeration Zone Loading	35 lbs of BOD5 / 1,000 cf			
Minimum Aerobic Digester Loading	20 cf/lbs of BOD5/day			
Minimum SRT for Digester	40 days	@	1.5 % Concentration	
Maximum Clarifier Surface Loading	1,200 gpd/sf (@ peak flow)			
Minimum Clarifier Detention Time	1.8 hr (@ peak flow)			
Minimum Disinfection Basin Detention Time	20 min (@ peak flow)			
Air Supply (Aeration Zone)	3,200 scfm/day/lb of BOD5			
Air Supply (Aerobic Digester)	30 scfm/1,000 cf of volume			
Air Supply (Disinfection)	20 scfm/1,000 cf of volume			

Calculations of Requirements

BOD5 Loading 406.58 lbs/day

Unit Requirements	Quantity
Flow Equa;ization	6,970 cf
Aeration Zone Volume	11,616 cf
Aerobic Digester Volume at Minimum Loading	8,132 cf
Aerobic Digester Volume at Minimum SRT	4,879 cf
Clarifier Surface Area	188 sf
Clarifier Volume at Minimum Detention Time	2,256 cf
Disinfection Volume	418 cf

Air Supply Requirements	Quantity
Aeration Process	849 scfm
Digester	230 scfm
Disinfection	23 scfm
Air Lift Pumps & Initial Mixing	170 scfm
Total Air Required	1,272 scfm

Note: The process calculation is based on 10' of submergence with a correction factor of 1.56 and clean water transfer efficiency of 0.85% per foot of submergence.

Proposed Unit Features

Proposed Units	Quantity	#Units	Length	Width	Height	SWD
Flow Equalization	13,316 cf	2	52	12	12.17	10.67
Aeration Zone Volume	12,292 cf	3	32	12	12.17	10.67
Aerobic Digester Volume	7,682 cf	3	20	12	12.17	10.67
Clarifier Surface Area	299 sf	1		19.5	14.17	
Clarifier Volume	2,986 cf					10.00
Chlorine Contact Volume	1,174 cf	1	10	11	12.17	10.67
Blowers	500 scfm	4	30.0 hp			

TPL #1

75,000 GPD WWTP

Sewage Sludge Solids Management Plan

Planning Considerations

Influent Design Flow	0.075	MGD
Total Sludge Holding Tank Volume	8,195	cubic feet
Dimensions	(2) 32-ft X 12-ft X 10.67-ft	
Aeration Basin MLSS (mg/L)	1,500 to 3,000 mg/l	

BOD_5 Removal	Influent Concentration =	325	mg/l
	Effluent Concentration =	10	mg/l
	Net Removal =	315	mg/l

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds BOD_5/day Removed	197	148	99	49
Pounds/Day of Dry Sludge Produced	62	47	31	16
Pounds/Day of Wet Sludge Produced	4,138	3,103	2,069	1,034
Gallons/Day of Wet Sludge Produced	496	372	248	124

Sludge will stay in the digester; clear liquor will be decanted off the digester and returned to the aeration basin. Sludge is wasted from the final clarifier to the aerobic digester. Some sludge from the clarifier is also returned to the aeration basin.

Removal Schedule

Days Between of Sludge Removal	124	165	247	494

Assumptions

(1) Assumed 0.315 pounds of dry sludge produced per pound of BOD5 removed
(2) Assumed solids concentration in the tank 1.5%
(3) Assumed stablized sludge density = water density 8.34 lb/gal

TPL #1

75,000 GPD WWTP EXPANSION (150,000 GPD TOTAL)

Sewage Sludge Solids Management Plan

Planning Considerations

Influent Design Flow	0.15	MGD
Total Sludge Holding Tank Volume	12,292	cubic feet
Dimensions	(3) 32-ft X 12-ft X 10.67-ft	
Aeration Basin MLSS (mg/L)	1,500 to 3,000 mg/l	

BOD_5 Removal	Influent Concentration =	325	mg/l
	Effluent Concentration =	10	mg/l
	Net Removal =	315	mg/l

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds BOD_5/day Removed	394	296	197	99
Pounds/Day of Dry Sludge Produced	124	93	62	31
Pounds/Day of Wet Sludge Produced	8,275	6,207	4,138	2,069
Gallons/Day of Wet Sludge Produced	992	744	496	248

Sludge will stay in the digester; clear liquor will be decanted off the digester and returned to the aeration basin. Sludge is wasted from the final clarifier to the aerobic digester. Some sludge from the clarifier is also returned to the aeration basin.

Removal Schedule

Days Between of Sludge Removal	93	124	185	371

Assumptions

(1) Assumed 0.315 pounds of dry sludge produced per pound of BOD5 removed
(2) Assumed solids concentration in the tank 1.5%
(3) Assumed stablized sludge density = water density 8.34 lb/gal

Leah Whallon

From: Leah Whallon
Sent: Friday, August 16, 2024 5:01 PM
To: Haney, Ryan R
Cc: aaepley@gmail.com
Subject: RE: Application for Proposed Permit No. WQ0016576001; Paloma Wastewater Services LLC; Midland TPL1 WWTP

Hi Ryan,

I've reviewed the response and have a few items to address.

The application fee and PLS have to be consistent with the proposed final phase flow. Technical Report 1.0 still lists the final phase as 0.3 MGD.
Please provide proof of the remaining application fee owed and revised plain language summary to be consistent with the flow proposed in Technical Report 1.0.
If the final phase flow will be 0.075 MGD, the technical report will need to be revised to reflect that flow.

The customer's mailing address on the core data form is 5818 Beverly Hill Street, Houston, Texas 77057. If another mailing address should be used in the NORI, please provide a revised core data form with the updated address in Section II.

The other items have been addressed.

Another letter will be sent to allow an additional 30 days to complete the response. Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

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From: Haney, Ryan R <Ryan.Haney@terracon.com>
Sent: Wednesday, August 7, 2024 9:52 PM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: RE: Application for Proposed Permit No. WQ0016576001; Paloma Wastewater Services LLC; Midland TPL1 WWTP

Good Morning Ms. Whallon,

Please see the below information in response to your email dated July 26, 2024:

1) Updated Administrative Report is attached. Please let me know if a new signature is required, or if the previous signature suffices
2) The final flow will be 300,000 gallons per day, however, we are only asking to permit for 75,000 gallons as the phase two and final phase will likely not occur during this permit period. We recently submitted a similar permit application and the $550 was accepted. Please let me know if further information is needed.
3) Plain Language Summary is attached
4) Edits needed: Paloma Wastewater Services LLC physical address is 2000 Bering Dr. Suite 401, Houston, TX 77057; the average flow also needs to be updated to 75,000 gallons per day.
5) Please see Spanish NORI attached

I also included the SPIF attachment and the updated technical report for the re-numbering of the attachments. I will share the updated remainder of the attachments with you via FTPS.

Please let me know if you have any further questions,

Cheers,

Ryan Haney
Senior Staff Scientist
Environmental Services | Texas Division

11555 Clay Road, Suite 100 | Houston, Texas 77043
Direct Number 713.329.2533 | Mobile Number 832.745.1318
Main Number 713-690-8989 | Fax 713-690-2055
ryan.haney@terracon.com / www.terracon.com

Please consider the environment before printing this email

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Friday, July 26, 2024 11:24 AM
To: Haney, Ryan R <Ryan.Haney@terracon.com>
Cc: aaepley@gmail.com
Subject: Application for Proposed Permit No. WQ0016576001; Paloma Wastewater Services LLC; Midland TPL1 WWTP

Good Morning,

Please see the attached Notice of Deficiency letter dated July 26, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by August 9, 2024.

Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access the hyperlink, please e-mail sender.

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ0016576001

SOLICITUD. Paloma Wastewater Services LLC, 2000 Bering Dr Suite 401, Houston, TX 77057 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016576001 del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 75,000 galones por día. La planta está ubicada 2311 West Farm-to-Market Road 1787 aproximadamente 0,5 milla al oeste de la intersección de Farm-to-Market Road 1787 y State Highway 349, en el Condado de Midland, Texas. La ruta de descarga es del sitio de la planta a a través de una tubería hasta Johnson Draw, de allí a Mustang Draw, de allí a Beals Creek, de allí al río Colorado debajo del lago J.B. Thomas (pendiente de revisión de RWA). La TCEQ recibió esta solicitud el 17 de Julio 2024. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca centenaria del condado de Midland, 2503 West Loop 250 North, Midland, en el condado de Midland, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. 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=-102.017222,31.710833&level=18

El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que

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

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

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html. 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del Paloma Wastewater Services LLC a la dirección indicada arriba o llamando a Señor Ryan Haney al 713-690-8989.

Fecha de emisión _____ *[Date notice issued]*

NTEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: Paloma Wastewater Services LLC

PERMIT NUMBER: Click here to enter text

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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 ☐	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☒	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☐	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☐	$2,015.00 ☐

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed Check/Money Order Number: 235313

Check/Money Order Amount: 550.00

Name Printed on Check: Terracon

EPAY Voucher Number: Click here to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 29)

☒ New TPDES

☐ Major Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☐ Renewal without changes

☐ New TLAP

☐ Minor Amendment *with* Renewal

☐ Minor Amendment *without* Renewal

☐ Minor Modification of permit

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

For existing permits:

Permit Number: WQ00 Click here to enter text.

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

Expiration Date: Click here to enter text.

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

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

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

Paloma Wastewater Services LLC

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

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

CN: 606226629

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): Mr.

First and Last Name: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Registered Agent

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

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

Click here to enter text

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

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

CN: Click here to enter text

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

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

First and Last Name: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Registered Agent

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

C. Core Data Form

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

Attachment: 01 - Domestic WW 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: Ryan Haney

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Environmental Scientist

Organization Name: Terracon Consultants, Inc.

Mailing Address: 11555 Clay Rd Suite 100

City, State, Zip Code: Houston, Texas 77043

Phone No.: 713-690-8989 Ext.: Click here to enter text. Fax No.: 713-690-2055

E-mail Address: ryan.haney@terracon.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

First and Last Name: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Registered Agent

Organization Name: Paloma Wastewater Services, LLC

Mailing Address: 5818 Beverly Hill

City, State, Zip Code: Houston, Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: aaepley@gmail.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: Ryan Haney

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Environmental Scientist

Organization Name: Terracon Consultants, Inc

Mailing Address: 11555 Clay Rd. Suite 100

City, State, Zip Code: Houston, Texas 77043

Phone No.: 713-690-8989 Ext.: Click here to enter text Fax No.: 713-690-2055

E-mail Address: ryan.haney@terracon.com

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

First and Last Name: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Registered Agent

Organization Name: Paloma Wastewater Services, LLC.

Mailing Address: 5818 Beverly Hill

City, State, Zip Code: Houston Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: aaepley@gmail.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: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Registered Agent

Organization Name: Paloma Wastewater Services LLC

Mailing Address: 5818 Beverly Hill

City, State, Zip Code: Houston, Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: aaepley@gmail.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: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Registered Agent

Organization Name: Paloma Wastewater Services, LLC

Mailing Address: 5818 Beverly Hill

City, State, Zip Code: Houston, Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: aaepley@gmail.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: Ryan Haney

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Environmental Scientist

Organization Name: Terracon Consultants Inc

Mailing Address: 11555 Clay Rd. Suite 100

City, State, Zip Code: Houston, Texas 77043

Phone No.: 713-690-8989 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: ryan.haney@terracon.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: Ryan Haney

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Environmental Scientist

Organization Name: Terracon Consultants, Inc.

Phone No.: 713-690-8989 Ext.: Click here to enter text.

E-mail: ryan.haney@terracon.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: Midland County Centennial Library

Location within the building: Public Viewing Area

Physical Address of Building: 2503 W Loop 250 N

City: Midland County: Midland

Contact Name: Tiffany London

Phone No.: (432) 688-4328 Ext.: Click here to enter text.

E. Bilingual Notice Requirements:

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

F. 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: 02-Public Involvement Plan Form-tceq-20960

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. **RN** Click here to enter text

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

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

Midland TPL1 Wastewater Treatment Plant

C. Owner of treatment facility: Paloma Wastewater Services LLC

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

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

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: Texas Pacific Resources LLC

Mailing Address: 1700 Pacific Avenue Suite 2900

City, State, Zip Code: Dallas, TX 75201

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

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

Attachment: 03-Land Lease Agreement

E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: Texas Pacific Resources LLC

Mailing Address: 1700 Pacific Avenue Suite 2900

City, State, Zip Code: Dallas, TX 75201

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

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

Attachment: 03 - Land Lease Agreement

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): Click here to enter text.

First and Last Name: Click here to enter text.

Mailing Address: Click here to enter text.

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

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

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

Attachment: Click here to enter text.

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:

Located at 2311 W FM 1787 in Midland, Texas 79706

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:

Effluent discharged via Outfall 001 through a pipe to Johnson Draw thence to Mustang Draw thence to Segment 1412B of Beals Creek.

City nearest the outfall(s): Midland

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

Outfall Latitude: ˚ 31˚42'36.64"N Longitude: ˚102˚ 1'17.75"W

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: Click here to enter text.

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

Click here to enter text.

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:

Click here to enter text.

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

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

D. Disposal Site Latitude: Click here to enter text. Longitude: Click here to enter text.

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

Click here to enter text.

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

Click here to enter text.

Section 12. Miscellaneous Information (Instructions Page 37)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click here to enter text

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

☐ Yes ☒ No

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

Click here to enter text

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: Click here to enter text Amount past due: Click here to enter text

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: Click here to enter text Amount past due: Click here to enter text

Section 13. Attachments (Instructions Page 38)

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

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

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

- Applicant's property boundary

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Click here to enter text.

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: N/A

Applicant: Paloma Wastewater Services LLC

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Alex Epley

Signatory title: Registered Agent

Signature:_____ Date:_____

(Use blue ink)

Subscribed and Sworn to before me by the said_____

on this_____ day of_____, 20_____.

My commission expires on the_____ day of_____, 20_____.

_____

Notary Public *[SEAL]*

_____

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.
Paloma Wastewater Services LLC (CN606106979) proposes to operate Midland TPL1 Wastewater Treatment Plant . a Domestic wastewater treatment plant . The facility will be located at 2311 W FM 1787, in Midland, TX, Midland County, Texas 79706.

A new application to discharge 75,000 gallons per day of treated domestic wastewater. The site will include one outfall.

Discharges from the facility are expected to contain Total Suspended Solids, BOD, Ammonia, Phosphorous, pH, Dissolved Oxygen, Chlorine, E. Coli, Oil and Grease, and Total Dissolved Solids. Domestic Wastewater will be treated by an activated sludge package plant that operates in the single-stage nitrification mode. The package plant process units include preliminary screening, (1) aeration basins, (1) secondary clarifier, (1) chlorine contact basin, and (1) digester. The aeration basin will be sized to provide the treatment volume required to treat the Phase I organic load of 187 lb/day BOD5. The clarifier and chlorine contact basin will each be designed to handle a hydraulic peak flow rate of 156 gpm. A manual bar screen will be provided during this phase for preliminary screening his facility will be equipped with one (1) influent flow equalization basin that will be hydraulically connected, collectively providing approximately 49,800 gallons of equalization volume. A facility of this type is not subject to the diurnal variations characteristic of traditional, municipal wastewater plants. Considering the nature of wastewater conveyance to the plant, the presence of this amount of equalization volume shall allow for a continuous, equalized wastewater flow to the activated sludge and other downstream processes. This allows for the use of a design peaking factor that is less than that dictated by the regulations. For this project, a design peak factor of 1.5 will be employed in the design of the clarifier, chlorine contact basin, and interconnecting piping. This is also in alignment with the design approach of the other, similar facilities.

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.

Paloma Wastewater Services LLC. (CN606106979)propone operar Midland TPL1 Wastewater Treatment Plant. Una Planta de aguas residuales domésticas. La instalación estará ubicada en 2311 W FM 1787, en la ciudad de Midland, Condado de Midland, Texas 7 .
Esta solicitud es para un nuevo permiso para la descarga de aguas residuales domesticas tratadas en un flujo promedio diario de 75,000 gallones.
Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan Solidos Supendidos Totales, BOD, Amoniaco, Fosforo, pH, Oxígeno Disuelto, Cloro, E. Coli, Aceites y Grasas, y Sólidos Disueltos Totales Aguas Domesticas residuales. estara tratado por una planta de lodo activado que operara en una fase simple de nitrificación. La planta incluye una unidad de aireación, una unidad clarificadora, una unidad de contacto con cloro y una unidad digeridora.

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 contengan14. 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.

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: Midland County CAD

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: Paloma Wastewater Services, LLC

   Permit No. WQ00 Click here to enter text EPA ID No. TX Click here to enter text

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

   2311 W FM 1787
   Midland, Texas 79706

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: Alex Epley

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Registered Agent

Mailing Address: 5818 Beverly Hill

City, State, Zip Code: Houston, Texas 77057

Phone No.: 713-876-9050 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: aaepley@gmail.com

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

Texas Pacific Resources LLC

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.

Discharge to Johnson Draw thence to Mustang Draw thence to Segment 1412B of Beals Creek.

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):

N/A

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

Private Land limited disturbance

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:

N/A

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

Approximately 632.96 acres owned by Texas Pacific Resources in Midland County ,Texas. Purchased in 2021.

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** Click here to enter text

1. Check or Money Order Number: 235313
2. Check or Money Order Amount: Click here to enter text
3. Date of Check or Money Order: Click here to enter text
4. Name on Check or Money Order: Click here to enter text
5. APPLICATION INFORMATION

   Name of Project or Site: Midland TPL1 Wastewater Treatment Plant

   Physical Address of Project or Site: 2311 W FM 1787 Midland, TX 79706

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

Staple Check or Money Order in This Space

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Section 1. Individual Information (Instructions Page 50)

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

Prefix (Mr., Ms., Miss): Click here to enter text.

Full legal name (first, middle, last): Click here to enter text.

Driver's License or State Identification Number: Click here to enter text.

Date of Birth: Click here to enter text.

Mailing Address: Click here to enter text.

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

Phone Number: Click here to enter text. Fax Number: Click here to enter text.

E-mail Address: Click here to enter text.

CN: Click here to enter text.

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

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): 0.075

2-Hr Peak Flow (MGD): 0.113

Estimated construction start date: December 1, 2024

Estimated waste disposal start date: May 1, 2025

B. Interim II Phase

Design Flow (MGD): 0.150

2-Hr Peak Flow (MGD): 0.225

Estimated construction start date: TBD

Estimated waste disposal start date: TBD

C. Final Phase

Design Flow (MGD): 0.3

2-Hr Peak Flow (MGD): 0.45

Estimated construction start date: TBD

Estimated waste disposal start date: TBD

D. Current operating phase: Pre-Construction

Provide the startup date of the facility: May 1, 2025

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:

Phase 1 (75,000 GPD)The proposed WWTP will be designed as an activated sludge package plant that operates in the single- stage nitrification mode. The package plant process units include preliminary screening, (1) equalization basin, (2) aeration basins, (1) secondary clarifier, (1) chlorine contact basin, and (2) digesters. The aeration basin will be sized to provide the treatment volume required to treat the Phase 1 organic load of 203.29 lb/day BOD5. The clarifier and chlorine contact basin will each be designed to handle a hydraulic peak flow rate of 0.83 gpm/sf. A manual bar screen will be provided during this phase for preliminary screening. This facility will be equipped with one (1) influent flow equalization basin that will be hydraulically connected, collectively providing approximately 49,805 gallons of equalization volume. A facility of this type is not subject to the diurnal variations characteristic of traditional, municipal wastewater plants. Considering the nature of wastewater conveyance to the plant, the presence of this amount of equalization volume shall allow for a continuous, equalized wastewater flow to the activated sludge and other downstream processes. This allows for the use of a design peaking factor that is less than that dictated by the regulations. For this project, a design peak factor of 1.5 will be employed in the design of the clarifier, chlorine contact basin, and interconnecting piping. This is also in alignment with the design approach of the other, similar facilities.
Phase 2 (150,000 GPD)The proposed WWTP expansion will be designed as an activated sludge package plant that operates in the single-stage nitrification mode. The Phase 1 treatment units will remain in operation and the following additional treatment units will be installed and function in conjunction with the existing plant: (1) new flow equalization basin, (1) new aeration basin, and (1) new digester. The bar screen installed in Phase 1 will be replaced with a larger bar screen box that will also function as a splitter box to distribute wastewater for equal apportionment of inflow to both phases of the treatment plant. This facility will be equipped with (2) influent flow equalization basins that will be hydraulically connected, collectively providing approximately 99,610 gallons of equalization volume. A facility of this type is not subject to the diurnal variations characteristic of traditional, municipal wastewater plants. Considering the nature of wastewater conveyance to the plant, the presence of this amount of equalization volume shall allow for a continuous, equalized wastewater flow to the activated sludge and other downstream processes. This allows for the use of a design peaking factor that is less than that dictated by the regulations. For this project, a design peak factor of 1.5 will be employed in the design of the clarifier, chlorine contact basin, and interconnecting piping. This is also in alignment with the design approach of the other, similar facilities.
Phase 3 (300,000 GPD)The proposed WWTP expansion will be designed as an activated sludge package plant that operates in the single-stage nitrification mode. The Phase 1 & 2 treatment units will remain in operation and the following additional treatment units will be installed and function as a separate, independent treatment train: (2) new flow equalization basins, (3) new aeration basins, (1) new secondary clarifier, (1) new chlorine contact basin, and (3) new digesters. The bar screen installed in Phase 2 will be replaced with a larger bar screen box that will also function as a splitter box to distribute wastewater for equal apportionment of inflow to the three phases of the treatment plant. In addition, a new bar screen will be added to function as a splitter box to distribute wastewater for equal apportionment of inflow for the newly added treatment basins. This facility will be equipped with four (4) influent flow equalization basins that will be hydraulically connected, collectively providing approximately 199,220 gallons of equalization volume. A facility of this type is not subject to the diurnal variations characteristic of traditional, municipal wastewater plants. Considering the nature of wastewater conveyance to the plant, the presence of this amount of equalization volume shall allow for a continuous, equalized wastewater flow to the activated sludge and other downstream processes. This allows for the use of a design peaking factor that is less than that dictated by the regulations. For this project, a design peak factor of 1.5 will be employed in the design of the clarifier, chlorine contact basin, and interconnecting piping. This is also in alignment with the design approach of the other, similar facilities.

Port or pipe diameter at the discharge point, in inches: 6 inch PVC

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)
Flow Equalization (Ph. 1)	1	52’-0” x 12’ x 12’-2”
Aeration (Ph. 1)	2	32’-0” x 12 x 12-2”
Clarifier (Ph. 1)	1	19’-5” Dia. X 14’-2”
Chlorine Contact Chamber (Ph.1)	1	10’-0” x 11’-0” x 12’-2”
Digester (Ph. 1)	2	20’ -0” x 12’-0” x 12’-2”
Adding During Phase 2		
Flow Equalization (Ph. 2)	1	52’-0” x 12’ x 12’-2”
Aeration (Ph. 2)	1	32’-0” x 12’-0” x 12’-2”
Digester (Ph. 2)	1	20’-0” x 12’-0” x 12’-2”
Adding During Phase 3		
Flow Equalization (Ph. 3)	2	52’-0” x 12’ x 12’-2”
Aeration (Ph. 3)	3	32’-0” x 12’-0” x 12’-2”
Clarifier (Ph. 3)	1	19’-6” Dia. x 14’-2”
Chlorine Contact Chamber (Ph. 3)	1	10’-0” x 11’-0” x 12’-2”
Digester	3	20’-0” x 12’-0” x 12’-2”

C. Process flow diagrams

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

Attachment: 05 - Midland TX Process Flow Diagram Phase 1-3

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: 06 – Service Area Map

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

The area to be serviced by this treatment plant includes areas in and surrounding Midland, Texas and Midland County. This treatment plant will process domestic wastewater produced offsite that will be transported via permitted trucks to the facility. The influent will not be transported via connected pipeline network.

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.

Click here to enter text.

Section 5. Closure Plans (Instructions Page 53)

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Click here to enter text.

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: Click here to enter text.

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

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.

Property Ownership by the permittee surrounding the facility meets the conditions of the buffer zone.

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*.

Click here to enter text.

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.

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.

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.

E. Stormwater management

1. Applicability

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

Yes ☐ No ☒

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

Yes ☐ No ☒

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

2. MSGP coverage

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

Yes ☐ No ☐

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

TXR05 Click here to enter text or TXRNE Click here to enter text

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

Yes ☐ No ☐

3. Conditional exclusion

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

Yes ☐ No ☐

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

4. Existing coverage in individual permit

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

Yes ☐ No ☐

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

Click here to enter text.

5. Zero stormwater discharge

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

Yes ☐ No ☐

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

Click here to enter text.

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

6. Request for coverage in individual permit

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

Yes ☐ No ☐

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

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 BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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 BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click here to enter text.

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

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.

Click here to enter text.

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). W*ater 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					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml)					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
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					
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: TBD

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

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

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: Click here to enter text.

B. Sludge disposal site

Disposal site name: City of Midland Landfill

TCEQ permit or registration number: 1605B

County where disposal site is located: Midland

C. Sludge transportation method

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

Name of the hauler: TBD

Hauler registration number: TBD

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: Click here to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click here to enter text.
- Federal Emergency Management Map:

  Attachment: Click here to enter text.
- Site map:

  Attachment: Click here to enter text.

Discuss in a description if any of the following exist within the lagoon area.

Check all that apply.

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click here to enter text.

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

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click here to enter text.

Potassium, mg/kg: Click here to enter text.

pH, standard units: Click here to enter text.

Ammonia Nitrogen mg/kg: Click here to enter text.

Arsenic: Click here to enter text.

Cadmium: Click here to enter text.

Chromium: Click here to enter text.

Copper: Click here to enter text.

Lead: Click here to enter text.

Mercury: Click here to enter text.

Molybdenum: Click here to enter text.

Nickel: Click here to enter text.

Selenium: Click here to enter text.

Zinc: Click here to enter text.

Total PCBs: Click here to enter text.

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 $1x10^{-7}$ cm/sec?

Yes ☐ No ☐

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

D. Site development plan

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

Click here to enter text

Attach the following documents to the application.

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

  Attachment: Click here to enter text

- Copy of the closure plan

  Attachment: Click here to enter text

- Copy of deed recordation for the site

  Attachment: Click here to enter text

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

  Attachment: Click here to enter text

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

  Attachment: Click here to enter text

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click here to enter text

E. Groundwater monitoring

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

Yes ☐ No ☐

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

Attachment: Click here to enter text

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

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:

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Click here to enter text.

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

A. RCRA hazardous wastes

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

Yes ☐ No ☒

B. Remediation activity wastewater

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

Yes ☐ No ☒

C. Details about wastes received

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

Attachment: Click here to enter text

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: Alex Epley

Title: Registered Agent

Signature: _____

Date: _____

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.

According to the Texas Commission on Environmental Quality, there is no other permitted wastewater treatment plant located in a three-mile radius of the proposed site of Midland TPL1 Wastewater Treatment Plant. Midland TPL1 Wastewater Treatment Plant will treat and dispose of domestic wastewater generated at oil and gas production sites and associated housing locations within a 15-mile radius of the plant. According to Texas Water Development Board Groundwater Data Viewer, there is an estimated 57 active wells, 106 proposed use of fracking wells, and 439 wells with a proposed use of rig supply. The average fracking and rig well site operates with two teams of six people per day. When not at the rig or fracking site, the people will stay at nearby housing facilities designed for field personnel with likely up to 60 mobile home units per site. Wastewater transport trucks will bring the domestic wastewater generated at the housing sites to Midland TPL1 Wastewater Treatment Plant for treatment and disposal. As each person generates on average 100 gallons of wastewater per day and a maximum of 3,612 people working within a 15-mile radius of the proposed wastewater site at any given time, there is a need to treat a maximum of 361,200 gallons of wastewater per day and the probability that some of the fracking and rig well sites are not in continuous operation, Midland TPL1 Wastewater Treatment Plant intends to begin construction of Phase One by May 1, 2025 to treat a maximum of 75,000 gallons of wastewater per day from these sites. As the oil and gas field expands in the vicinity and the need for additional treatment is needed, Midland TPL1 Wastewater Treatment Plant will expand to meet the demand in Phase two and Phase Three of the permit. According to U.S. Energy Information Administration, oil production in Texas has increased over 500% since 2010. With this information, it is anticipated that oil production will steadily increase in Texas and the need to expand to Phase Two and Three will occur within the next three to five years depending on economics and demand.

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: Click here to enter text.

If yes, attach correspondence from the city.

Attachment: Click here to enter text.

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

Attachment: Click here to enter text.

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: Click here to enter text.

3. Nearby WWTPs or collection systems

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

Yes ☐ No ☒

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

Attachment: Click here to enter text.

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

Attachment: Click here to enter text.

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: Click here to enter text.

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): Click here to enter text.

Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click here to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): Click here to enter text.

Provide the source of the average organic strength or BOD_5 concentration.

Click here to enter text

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
Hospital		
Nursing home		
Other	0.075 MGD	325 mg/L
TOTAL FLOW from all sources	0.075 MGD	
AVERAGE BOD_5 from all sources		325 mg/L

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: 10 mg/L

Total Suspended Solids, mg/l: 15 mg/L

Ammonia Nitrogen, mg/l: 3 mg/L

Total Phosphorus, mg/l: Click here to enter text.

Dissolved Oxygen, mg/l: Click here to enter text.

Other: Click here to enter text.

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15 mg/L

Ammonia Nitrogen, mg/l: 3 mg/L

Total Phosphorus, mg/l: Click here to enter text.

Dissolved Oxygen, mg/l: Click here to enter text.

Other: Click here to enter text.

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15 mg/L

Ammonia Nitrogen, mg/l: 3 mg/L

Total Phosphorus, mg/l: Click here to enter text.

Dissolved Oxygen, mg/l: Click here to enter text.

Other: Click here to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: 1.0-4.0 mg/l after 20 minutes detention time at peak flow

Dechlorination process: Click here to enter text.

☐ Ultraviolet Light: Click here to enter text. seconds contact time at peak flow

☐ Other: Click here to enter text.

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: 07 – Domestic Technical Report 1.1(5)(a) Process Calculations

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.

Click here to enter text.

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

Fema.gov flood map service center – Flood Map 48329C0475F effective September 16, 2005

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

Yes ☐ No ☒

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

Yes ☐ No ☐

If yes, provide the permit number: Click here to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click here to enter text.

B. Wind rose

Attach a wind rose. Attachment: 08 - 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: Click here to enter text.

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

Attachment: Click here to enter text.

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

Attach a solids management plan to the application.

Attachment: 09 -Domestic Technical Report 1.1(7) Sludge 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.

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: Click here to enter text

Distance and direction to the intake: Click here to enter text

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

Attachment: Click here to enter text

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: Click here to enter text

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

Yes ☐ No ☐

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

Click here to enter text

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

Yes ☐ No ☐

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

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: Unnamed intermittent stream thence to Johnson Draw thence to Mustang Draw thence to Segment 1412B of Beals 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: Click here to enter text.

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

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

☒ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click here to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☒ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☒ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click here to enter text.

C. Downstream perennial confluences

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

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.

Click here to enter text.

E. Normal dry weather characteristics

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

Intermittent flow prior to the confluence with Beal's Creek.

Date and time of observation:

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 Click here to enter text.

B. Waterbody uses

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

☐ Livestock watering
☐ Contact recreation

☐ Irrigation withdrawal ☐ Non-contact recreation

☐ Fishing ☐ Navigation

☐ Domestic water supply ☐ Industrial water supply

☐ Park activities ☒ Other(s), specify N/A; intermittent flow

C. Waterbody aesthetics

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

☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional

☒ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid

☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC 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: Click here to enter text. Time of study: Click here to enter text.

Stream name: Click here to enter text.

Location: Click here to enter text.

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 75)

Number of stream bends that are well defined: Click here to enter text.

Number of stream bends that are moderately defined: Click here to enter text.

Number of stream bends that are poorly defined: Click here to enter text.

Number of riffles: Click here to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Click here to enter text.

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.
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 76)

Streambed slope of entire reach, from USGS map in feet/feet: Click here to

enter text

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): Click here to enter text

Length of stream evaluated, in feet: Click here to enter text

Number of lateral transects made: Click here to enter text

Average stream width, in feet: Click here to enter text

Average stream depth, in feet: Click here to enter text

Average stream velocity, in feet/second: Click here to enter text

Instantaneous stream flow, in cubic feet/second: Click here to enter text

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): Click here to enter text

Size of pools (large, small, moderate, none): Click here to enter text

Maximum pool depth, in feet: Click here to enter text

DOMESTIC WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications

Renewal, New, and Amendments

Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click here to enter text.
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: Click here to enter text.

Section 2. Land Application Site(s) (Instructions Page 77)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 77)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Click here to enter text

Section 4. Flood and Runoff Protection (Instructions Page 77)

Is the land application site within the 100-year frequency flood level?

Yes ☐ No ☐

If yes, describe how the site will be protected from inundation.

Click here to enter text

Provide the source used to determine the 100-year frequency flood level:

Click here to enter text.

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

Click here to enter text.

Section 5. Annual Cropping Plan (Instructions Page 77)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why.

Attachment: Click here to enter text.

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 78)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

Attachment: Click here to enter text.

- The boundaries of the land application site(s)

- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1 mile of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: Click here to enter text.

Section 7. Groundwater Quality (Instructions Page 79)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table

provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: Click here to enter text.

Are groundwater monitoring wells available onsite? Yes ☐ No ☐

Do you plan to install ground water monitoring wells or lysimeters around the land application site? Yes ☐ No ☐

If yes, then provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: Click here to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 79)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: Click here to enter text.

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. Note: for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: Click here to enter text.

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 80)

Is the facility in operation?

Yes ☐ No ☐

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD_5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Date	30 Day Avg Flow MGD	BOD_5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Click here to enter text

DOMESTIC WORKSHEET 3.1

SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 81)

Complete the item that applies for the method of disposal being used.

A. Irrigation

Area under irrigation, in acres: Click here to enter text.

Design application frequency:

hours/day Click here to enter text. And days/week Click here to enter text.

Land grade (slope):

average percent (%): Click here to enter text.

maximum percent (%): Click here to enter text.

Design application rate in acre-feet/acre/year: Click here to enter text.

Design total nitrogen loading rate, in lbs N/acre/year: Click here to enter text.

Soil conductivity (mmhos/cm): Click here to enter text.

Method of application: Click here to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: Click here to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: Click here to enter text.

Attach a separate engineering report with the water balance and storage volume calculations.

Attachment: Click here to enter text.

C. Evapotranspiration beds

Number of beds: Click here to enter text.

Area of bed(s), in acres: Click here to enter text.

Depth of bed(s), in feet: Click here to enter text.

Void ratio of soil in the beds: Click here to enter text.

Storage volume within the beds, in acre-feet: Click here to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

Attachment: Click here to enter text.

D. Overland flow

Area used for application, in acres: Click here to enter text.

Slopes for application area, percent (%): Click here to enter text.

Design application rate, in gpm/foot of slope width: Click here to enter text.

Slope length, in feet: Click here to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click here to enter text.

Design application frequency:

hours/day: Click here to enter text. And days/week: Click here to enter text.

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217*.

Attachment: Click here to enter text.

Section 2. Edwards Aquifer (Instructions Page 82)

Is the facility subject to *30 TAC Chapter 213*, Edwards Aquifer Rules?

Yes ☐ No ☐

If yes, attach a report concerning the recharge zone.

Attachment: Click here to enter text.

DOMESTIC WORKSHEET 3.2

SUBSURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications. Renewal and minor amendments may require the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that does not meet the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 83)

Identify the type of system:

☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)

☐ Low Pressure Dosing

☐ Other, specify: Click here to enter text.

Application area, in acres: Click here to enter text.

Area of drainfield, in square feet: Click here to enter text.

Application rate, in gal/square foot/day: Click here to enter text.

Depth to groundwater, in feet: Click here to enter text.

Area of trench, in square feet: Click here to enter text.

Dosing duration per area, in hours: Click here to enter text.

Number of beds: Click here to enter text.

Dosing amount per area, in inches/day: Click here to enter text.

Infiltration rate, in inches/hour: Click here to enter text.

Storage volume, in gallons: Click here to enter text.

Area of bed(s), in square feet: Click here to enter text.

Soil Classification: Click here to enter text.

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of *§* 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: Click here to enter text.

Section 2. Edwards Aquifer (Instructions Page 83)

Is the subsurface system located on the Edwards Aquifer Recharge Zone as mapped by the TCEQ?

Yes ☐ No ☐

Is the subsurface system located on the Edwards Aquifer Transition Zone as mapped by the TCEQ?

Yes ☐ No ☐

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WORKSHEET 3.3

SUBSURFACE AREA DRIP DISPERSAL SYSTEM (SADDS) LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment subsurface area drip dispersal system applications. Renewal and minor amendments may require the worksheet on a case by case basis.

NOTE: All applicants proposing new or amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that meets the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Administrative Information (Instructions Page 84)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility.

Click here to enter text.

B. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

Yes ☐ No ☐

If no, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

Click here to enter text.

C. Owner of the subsurface area drip dispersal system:

Click here to enter text.

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

Yes ☐ No ☐

If no, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

Click here to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located:

Click here to enter text.

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

Yes ☐ No ☐

If no, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

Click here to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 84)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click here to enter text.

B. Irrigation operations

Application area, in acres: Click here to enter text.

Infiltration Rate, in inches/hour: Click here to enter text.

Average slope of the application area, percent (%): Click here to enter text.

Maximum slope of the application area, percent (%): Click here to enter text.

Storage volume, in gallons: Click here to enter text.

Major soil series: Click here to enter text.

Depth to groundwater, in feet: Click here to enter text.

C. Application rate

Is the facility located west of the boundary shown in *30 TAC § 222.83* and also using a vegetative cover of non-native grasses over seeded with cool

season grasses during the winter months (October-March)?

Yes ☐ No ☐

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located east of the boundary shown in *30 TAC § 222.83* or in any part of the state when the vegetative cover is any crop other than non-native grasses?

Yes ☐ No ☐

If yes, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

Yes ☐ No ☐

Hydraulic application rate, in gal/square foot/day: Click here to enter text.

Nitrogen application rate, in lbs/gal/day: Click here to enter text.

D. Dosing information

Number of doses per day: Click here to enter text.

Dosing duration per area, in hours: Click here to enter text.

Rest period between doses, in hours: Click here to enter text.

Dosing amount per area, in inches/day: Click here to enter text.

Number of zones: Click here to enter text.

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

Yes ☐ No ☐

If yes, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: Click here to enter text.

Section 3. Required Plans (Instructions Page 84)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79*.

Attachment: Click here to enter text.

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73*.

Attachment: Click here to enter text.

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75*.

Attachment: Click here to enter text.

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157*.

Attachment: Click here to enter text.

Section 4. Floodway Designation (Instructions Page 85)

A. Site location

Is the existing/proposed land application site within a designated floodway?

Yes ☐ No ☐

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: Click here to enter text.

Section 5. Surface Waters in the State (Instructions Page 85)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: Click here to enter text.

B. Buffer variance request

Do you plan to request a buffer variance from water wells or waters in the state?

Yes ☐ No ☐

If yes, then attach the additional information required in *30 TAC § 222.81(c).*

Attachment: Click here to enter text.

Section 6. Edwards Aquifer (Instructions Page 85)

A. Is the SADDS located on the Edwards Aquifer Recharge Zone as mapped by the TCEQ?

Yes ☐ No ☐

B. Is the SADDS located on the Edwards Aquifer Transition Zone as mapped by the TCEQ?

Yes ☐ No ☐

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES REQUIREMENTS*

The following is required for facilities with a permitted or proposed flow of 1.0 MGD or greater, facilities with an approved pretreatment program, or facilities classified as a major facility. See instructions for further details.

This worksheet is not required for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click here to enter text

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) (*1)				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Cyanide (*2)				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Diuron				0.09
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Ethylbenzene				10
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane (Lindane)				0.05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0.5
Malathion				0.1

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10
Polychlorinated Biphenyls (PCB's) (*3)				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable.

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click here to enter text

Table 4.0(2)A – Metals, Cyanide, Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide (*2)				10
Phenols, Total				10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein				50
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane [Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol				10
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol				20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentalchlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo-benzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin				0.01
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a "<".

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

☐ 2,4,5-trichlorophenoxy acetic acid
Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol
Common Name TCP, CASRN 95-95-4

☐ hexachlorophene
Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

click here to enter text

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

Yes ☐ No ☐

If yes, provide a brief description of the conditions for its presence.

Click here to enter text.

If any of the compounds in Subsection A or B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click here to enter text.

TABLE 4.0(2)F - DIOXIN/FURAN COMPOUNDS

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WORKSHEET 5.0

TOXICITY TESTING REQUIREMENTS

The following is required for facilities with a currently-operating design flow greater than or equal to 1.0 MGD, with an EPA-approved pretreatment program (or those that are required to have one under 40 CFR Part 403), or are required by the TCEQ to perform Whole Effluent Toxicity testing. This worksheet is not required for minor amendments without renewal.

Section 1. Required Tests (Instructions Page 97)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: Click here to enter text.

48-hour Acute: Click here to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

Yes ☐ No ☐

If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

Click here to enter text.

Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

Table 5.0(1) – Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

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: Click here to enter text.

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

Significant IUs – non-categorical:

Number of IUs: Click here to enter text.

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

Other IUs:

Number of IUs: Click here to enter text.

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

B. Treatment plant interference

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

Yes ☐ No ☐

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

Click here to enter text.

C. Treatment plant pass through

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

Yes ☐ No ☐

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

Click here to enter text

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☐ No ☐

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐ No ☐

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

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

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

A. Substantial modifications

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

Yes ☐ No ☐

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

Click here to enter text

B. Non-substantial modifications

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

Yes ☐ No ☐

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

Click here to enter text

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

Yes ☐ No ☐

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

Click here to enter text

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

A. General information

Company Name: Click here to enter text

SIC Code: Click here to enter text

Telephone number: Click here to enter text Fax number: Click here to enter text

Contact name: Click here to enter text

Address: Click here to enter text

City, State, and Zip Code: Click here to enter text

B. Process information

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

Click here to enter text

C. Product and service information

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

Click here to enter text

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: Click here to enter text

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: Click here to enter text

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

Yes ☐ No ☐

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

Yes ☐ No ☐

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

Category: Click here to enter text
Subcategories: Click here to enter text

Category: Click here to enter text
Subcategories: Click here to enter text

Category: Click here to enter text
Subcategories: Click here to enter text

Category: Click here to enter text
Subcategories: Click here to enter text

Category: Click here to enter text
Subcategories: Click here to enter text

F. Industrial user interruptions

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

Yes ☐ No ☐

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

Click here to enter text

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit to:
TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 102)

1. TCEQ Program Area

   Program Area (PST, VCP, IHW, etc.): Click here to enter text.

   Program ID: Click here to enter text.

   Contact Name: Click here to enter text.

   Phone Number: Click here to enter text.

2. Agent/Consultant Contact Information

   Contact Name: Click here to enter text.

   Address: Click here to enter text.

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

   Phone Number: Click here to enter text.

3. Owner/Operator Contact Information

   Owner ☐ Operator ☐

   Owner/Operator Name: Click here to enter text.

   Contact Name: Click here to enter text.

   Address: Click here to enter text.

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

   Phone Number: Click here to enter text.

4. Facility Contact Information

   Facility Name: Click here to enter text.

Address: Click here to enter text.

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

Location description (if no address is available): Click here to enter text.

Facility Contact Person: Click here to enter text.

Phone Number: Click here to enter text.

5. Latitude and Longitude, in degrees-minutes-seconds

   Latitude: Click here to enter text. Longitude: Click here to enter text.

   Method of determination (GPS, TOPO, etc.): Click here to enter text.

   Attach topographic quadrangle map as attachment A.

6. Well Information

   Type of Well Construction, select one:

   - ☐ Vertical Injection
   - ☐ Subsurface Fluid Distribution System
   - ☐ Infiltration Gallery
   - ☐ Temporary Injection Points
   - ☐ Other, Specify: Click here to enter text.

   Number of Injection Wells: Click here to enter text.

7. Purpose

   Detailed Description regarding purpose of Injection System:

   Click here to enter text.

   Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. Water Well Driller/Installer

   Water Well Driller/Installer Name: Click here to enter text.

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

   Phone Number: Click here to enter text.

License Number: Click here to enter text.

Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

Table 7.0(1) –Down Hole Design Table

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
Casing					
Tubing					
Screen					

Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: Click here to enter text.

System(s) Construction: Click here to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Click here to enter text.
2. Receiving Formation Name of Injection Zone: Click here to enter text.
3. Well/Trench Total Depth: Click here to enter text.
4. Surface Elevation: Click here to enter text.
5. Depth to Ground Water: Click here to enter text.
6. Injection Zone Depth: Click here to enter text.
7. Injection Zone vertically isolated geologically? Yes ☐ No ☐

Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

Name: Click here to enter text.

Thickness: Click here to enter text.

8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

   Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

   Attach as Attachment F.

10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

    Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

    Attach as Attachment H.

12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click here to enter text

13. Maximum injection Rate/Volume/Pressure: Click here to enter text

14. Water wells within 1/4 mile radius (attach map as Attachment I): Click here to enter text

15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click here to enter text

16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click here to enter text

17. Sampling frequency: Click here to enter text

18. Known hazardous components in injection fluid: Click here to enter text

Section 5. Site History

1. Type of Facility: Click here to enter text

2. Contamination Dates: Click here to enter text

3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): Click here to enter text

4. Previous Remediation: Click here to enter text

   Attach results of any previous remediation as attachment M

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can

begin. Attach additional pages as necessary.

Class V Injection Well Designations

5A07	Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19	Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
5B22	Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
5D02	Storm Water Drainage (IW designed for the disposal of rain water)
5D04	Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
5F01	Agricultural Drainage (IW that receive agricultural runoff)
5R21	Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23	Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
5W09	Untreated Sewage
5W10	Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
5W11	Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
5W12	WTTP disposal
5W20	Industrial Process Waste Disposal Wells
5W31	Septic System (Well Disposal method)
5W32	Septic System Drainfield Disposal
5X13	Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25	Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26	Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27	Other Wells
5X28	Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29	Abandoned Drinking Water Wells (waste disposal)

TCEQ Use Only

TCEQ Core Data Form

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

1.1 SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)		
☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)		
☐ Renewal (*Core Data Form should be submitted with the renewal form*)		☐ Other
2. Customer Reference Number (*if issued*)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (*if issued*)
CN 606226629		RN

1.2 SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	5/20/2024

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name (*If an individual, print last name first: eg: Doe, John*)	*If new Customer, enter previous Customer below:*
Paloma Wastewater Services, LLC	

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (*if applicable*)
805245091		93-3767982	

11. Type of Customer:	☐ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship	☒ Other: LLC

12. Number of Employees	13. Independently Owned and Operated?
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher	☒ Yes ☐ No

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*								
☐ Owner ☒ Operator ☐ Owner & Operator ☐ Other: ☐ Occupational Licensee ☒ Responsible Party ☐ VCP/BSA Applicant								
15. Mailing Address:	5818 Beverly Hill							
	City	Houston	State	TX	ZIP	77057	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	aaepley@gmail.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(713) 876-9050		( ) -

1.3 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.)*
Midland TPL1 Wastewater Treatment Plant

23. Street Address of the Regulated Entity: *(No PO Boxes)*	2311 W FM 1787							
	City	Midland	State	TX	ZIP	79706	ZIP + 4	7849
24. County	Midland							

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

25. Description to Physical Location:	
26. Nearest City	State Nearest ZIP Code

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:	31.710963°	28. Longitude (W) In Decimal:	-102.017256°

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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	None	221320	

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

Domestic Wastewater Treatment

34. Mailing Address:	5818 Beverly Hill						
	City	Houston	State	TX	ZIP	77057	ZIP + 4	

35. E-Mail Address:	aaepley@gmail.com

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(713) 876-9050		( ) -

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.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil

☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Ryan Haney	41. Title:	Environmental Scientist
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(713) 690-8989		(713) 690-2055	ryan.haney@terracon.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:	Paloma Wastewater Services LLC	Job Title:	Registered Agent
Name *(In Print):*	Alex Epley	Phone:	(713) 876- 9050
Signature:		Date:	5/22/2024

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.

This treatment plant will process domestic wastewater produced offsite which will be transported via permitted trucks to the facility.

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.

Midland

(City)

Midland

(County)

(Census Tract)

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

☐ City ☒ County ☒ Census Tract

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

25.7%

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

$46,914

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

White alone, percent 58.2%, Black or African American alone, percent 6.5%, American Indian and Alaska Native alone, percent 1%, Asian alone, percent 2.3% Native Hawaiian and Other Pacific Islander alone, percent(a) 0.01%, Two or More

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

35%

(e) Languages commonly spoken in area by percentage

English-64.9%, Spanish-31.2%, and other Indo-European Languages - 3.8%

(f) Community and/or Stakeholder Groups

N/A

(g) Historic public interest or involvement

N/A

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) Midland County Centennial Library

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)

TERM SURFACE SITE AND ROADWAY LEASE NO. 18338

STATE OF TEXAS §
§ **KNOW ALL MEN BY THESE PRESENTS:**
COUNTY OF MIDLAND §

This Term Surface Site and Roadway Lease No. 18338 ("**Agreement**"), made effective as of the 16th day of April, 2024 ("**Effective Date**"), by and between TEXAS PACIFIC RESOURCES LLC, a Texas limited liability company, whose address is 1700 Pacific Avenue, Suite 2900, Dallas, Texas 75201 ("**Lessor**"), and PALOMA WASTEWATER SERVICES LLC, whose address is 5818 Beverly Hill, Houston, Texas 77057 ("**Lessee**").

WHEREAS, that said Lessor does own the surface estate of the following tract of land listed below:

Section 21, Block 39, Township 4 South, Abstract 228, T&P RR Co. Survey,
Midland County, Texas

Hereinafter referred to as the "**Subject Lands**";

NOW THEREFORE, for and in consideration of the sums herein provided and other good and valuable consideration, and on the terms, conditions and covenants set forth herein, Lessor and Lessee agree as follows:

1. **Lease**. Lessor does hereby lease and demise unto Lessee, its successors and permitted assigns, a tract of land consisting of 3.65 acres, more or less, out of the Subject Lands, ("**Surface Site**"), and private access roadway thirty feet (30') in width being a total distance of 21.28 rods and consisting of 0.24 acres, more or less, out of the Subject Lands ("**Roadway**"), each being more particularly described and depicted on the attached **Exhibit A**, heretofore made a part of this Agreement. Said Surface Site, Roadway and the Subject Lands collectively referred to as the "**Premises**".

2. **Use**. It is understood and agreed that said Surface Site shall be used to construct, maintain and operate a domestic wastewater treatment facility, with pipelines and any and all other structures, equipment and appurtenances necessary for the transaction of business as a domestic wastewater treatment facility, as described and depicted more particularly on **Exhibit A** attached hereto (collectively, "**Facilities**"), and for no other purpose or purposes without the prior written consent of Lessor. The Roadway shall be for the benefit and use by Lessee, its employees, agents and contractors for ingress and egress only, to and from Lessee's operations, and by Lessor, its employees, agents, and contractors, and any grazing lessee of Lessor (collectively, "**Lessor Parties**"), and other such parties as Lessor may from time to time grant access to such Roadway.

3. **Term**.

(a) Initial Term. The initial term of this Agreement shall commence on the Effective Date and expire on the date that is five (5) years following the Effective Date ("**Initial Term**"), unless earlier terminated as hereinafter provided.

(b) Option for Extended Terms. Lessee shall have the option to extend the Initial Term of this Agreement for two (2) additional terms of five (5) years so long as the Surface Site is being used by Lessee in accordance with this Agreement and for the purposes stated herein, and provided Lessee is not otherwise in breach of any Lessee obligation hereunder. Each additional five (5) year term beyond the Initial Term shall be referred to as an "**Extended Term**", and the Initial Term and each Extended Term (if entered) shall be referred to collectively as the "**Term**". To exercise such option, Lessee must provide to Lessor (i) written notice of its intent to exercise the option for an Extended Term and (ii) the Extension Payment (as described below) no later than thirty (30) days prior to expiration of the then-current term (whether the Initial Term or an Extended Term). If the option to enter an Extended Term is timely exercised by Lessee as described herein, then this Agreement shall remain in full force and effect until the expiration or earlier termination of any such Extended Term.

4. **Consideration**.

(a) **Initial Rental Fee**. In consideration of the covenants, obligations, and rights granted herein, Lessee agrees to pay Lessor the non-refundable sum of Twenty-Five Thousand and No/100 Dollars ($25,000.00) (the "Initial **Rental Fee**") within one hundred eighty (180) days following the Effective Date of this Agreement.

(b) **Extension Payment**. The consideration for each Extended Term ("**Extension Payment**") shall be the sum of Twenty-Five Thousand and 00/100 Dollars ($25,000.00) adjusted by the percentage increase in the consumer price index, as published by the Bureau of Labor Statistics of the United States Department of Labor for All Urban Consumers, specifically, the "All Items" Unadjusted Expenditure Category for December 31, 2023 and for December 31 of the year immediately preceding the applicable Extended Term, but in no event shall the percentage increase be less than twenty five percent (25%) greater than the Initial Rental Fee or the previous Extension Payment, as the case may be.

(c) **Royalty**. In addition to the Initial Rental Fee and any applicable Extension Payment, during the Term of this Agreement, Lessee shall pay Lessor ten percent (10%) of all gross revenues generated from, or associated with, the operation of the Facilities (the "**Royalty**"), including, but not limited to, revenues generated from water treatment and water sales. Lessee shall provide Lessor a monthly accounting identifying all gross revenues generated from, or associated with, the operation of the Facilities along with settlement to Lessor by the 20th of each month for the preceding month's operations. The Royalty shall be owed to Lessor regardless of whether such amounts are invoiced or actually received.

(d) **Audit Rights**. Lessor shall have the right to audit the books and records of Lessee to verify the accuracy of the Royalty payable to Lessor in connection with the operations of Lessee on the Premises during the Term. Such audit will occur during normal business hours using electronic records or, solely to the extent original documents are required, at Lessee's office where the accounts and records are normally maintained. If such audit determines that Lessor has been underpaid by two percent (2%) or more during the period in question, then all costs of said audit shall be borne by Lessee.

5. **Existing Agreements**. This Agreement and all other rights herein granted are expressly made subject to the following, whether or not evidenced by instruments recorded in the Records of Midland County, Texas, but only insofar as such agreements and/or rights affect the Premises: (i) any valid and existing oil, gas and/or mineral leases, (ii) any valid and existing surface leases or agreements, (iii) any other valid or existing easements or rights-of-way, and (iv) the rights of any parties in possession. Lessee assumes the risk and obligation to determine that there are no surface or subsurface obstructions, including pipelines, that may be present on the Premises. In addition, thereto, Lessor reserves the right to grant additional leases, easements or rights-of-way over, through and across the Premises so long as such leases, easements or rights-of-way do not unreasonably interfere with the rights granted to Lessee in this Agreement.

6. **Fencing**. Lessee shall have no right to cut any fence surrounding or located on the Premises without Lessor's prior written consent. In the event of Lessor's prior written consent, it is agreed that prior to cutting any of such fences, Lessee shall brace the existing fence adequately and to the entire satisfaction of Lessor, or its agent, on each side of the proposed cut, and shall procure the approval of Lessor, or its agent, of such bracing prior to cutting such fence. In bracing such fence, it is provided that Lessee shall set not less than six (6) nine-foot (9') steel pipe posts, with tops not less than four-inches (4") in diameter, each buried four feet (4') into the ground with three (3) posts on each side of the proposed cut, the posts to be properly braced with horizontal braces, and wired so that when the fence is cut there will be no slackening of the wires. If Lessee shall elect to maintain an opening in any of the fences of Lessor during construction, Lessee shall be obligated to install a good and substantial gap or metal gate capable of turning cattle in such opening, and Lessee shall keep such gap or gate securely locked at all times when not in actual use; and upon the completion of construction, Lessee shall close all openings and all outside fences and shall restore such fences to their original condition. Lessee shall construct and maintain in good condition a fence or fences surrounding all or any part of the Surface Site or Roadway as requested by Lessor, utilizing chain link or other suitable construction materials and in accordance with specifications to be determined by Lessor. Upon Lessor's request, Lessee agrees to install a

cattle guard with a locked gate and/or locked side gates at a mutually agreed upon point or points. Lessee agrees to keep said gate or gates locked at all times, except during actual use for ingress and egress, and agrees to immediately provide Lessor, and if so requested, any grazing tenant of Lessor, with a key or combination to any lock installed by Lessee. If Lessee shall fail to keep said gate or gates locked pursuant to the terms hereof, Lessor shall have the right to request Lessee provide a gate guard at its sole cost and expense. Any cattle guards, gates, culverts or fences installed by Lessee shall become the property of Lessor upon expiration or termination of this Agreement unless Lessor requests removal of same.

7. **Roadway Maintenance**. The Roadway to be used by Lessee shall be constructed, repaired, and maintained in good, all-weather condition at all times during the term of this Agreement at Lessee's sole cost and expense, except as otherwise provided herein. Such Roadway shall be built and maintained so as to provide a crown at the center and incorporate appropriate water turnouts and culverts to prevent erosion. Lessee shall maintain dust at reasonable levels at all times by topping the surface of the Roadway with caliche where necessary and by keeping such Roadway watered as necessary. Any repair, maintenance or restoration of the Roadway shall be performed to the full satisfaction of Lessor. Nothing in this Agreement shall purport to grant Lessee access to the Premises from adjoining lands, and nothing contained herein and no right herein granted and nothing which Lessee shall do hereunder shall cause or permit said Roadway to be dedicated to the public use or become a public road. Lessor will require any third parties, other than the Lessor Parties, to whom Lessor permits to use the Roadway, to coordinate and share in all costs for maintenance, upkeep, or improvements on the Roadway with Lessee.

8. **Taxes**. Lessee agrees to pay prior to delinquency any taxes which may be levied upon or assessed against the structures, fixtures, Facilities or other equipment which may be built or installed upon the Premises by Lessee and that it will reimburse Lessor, if so requested, for any taxes which may be levied upon or assessed against the surface of the Premises to the extent that such taxes exceed those levied upon or assessed against the surface of said Premises for the calendar year 2023.

9. **Damages**. Lessee agrees to pay all damages which may be caused to cattle, fences, buildings, crops or any other personal or mixed property of Lessor, its successors or assigns, and Lessor's tenants, in constructing, maintaining, repairing and/or using said Surface Site and Roadway and in the exercise of any other rights herein granted. Lessee shall also pay Lessor, or Lessor's tenants, as their interests may appear, for all damages caused by the stoppage or obstruction of the natural flow of water and drainage on the Premises at any time during the existence of this Agreement. Payment for any such damages shall be made to Lessor or to Lessor's lessees or tenants, as their interests may appear, at 1700 Pacific Avenue, Suite 2900, Dallas, Texas 75201, unless Lessor shall provide other written payment instructions. Except as above provided, Lessor does hereby release Lessee from any normal, foreseeable and necessary damages which may be done to the surface of the lands covered by this Agreement in connection with the initial construction of said Surface Site and Roadway.

10. **Water Discharge**. Lessee shall not discharge water on the surface of the Premises, except to the extent such water is discharged into an approved named stream on the Premises pursuant to a permit issued by the Texas Commission of Environmental Quality. Lessee shall not allow such water to flow unrestrained over Lessor's land, but instead shall contain the same, preventing it securely from penetrating, seeping or flowing into the soil or any fresh water formation below the surface and from flowing into any tank, reservoir or water course on the surface of the Premises. In the event of such discharge, spill, leak, reportable or nonreportable incident, Lessee shall notify Lessor immediately upon discovery of any such incident, and Lessee shall remove from the Premises the dirt related to any such spill within twenty-four (24) hours (the "**Contamination**"). Lessee agrees to immediately provide Lessor with all reports, testing information, data, notes or other written data related to the Contamination upon receipt or production by Lessee or Lessee's agents or representatives which shall include all pictures, planimeters, measurements and all other data related to the discharge. If Contamination occurs, Lessee agrees remove from the Premises all contaminated soil, caliche, or other material until the affected area is returned to the natural background levels for the surrounding uncontaminated land based on a determination by a professional geoscientist (soil science discipline).

11. **Hazardous Materials**. Lessee shall not allow the presence of any Hazardous Materials (as defined herein), pollutants or contaminants on the Premises without the prior written

consent of Lessor unless otherwise permitted under this Agreement. The term "**Hazardous Materials**" shall mean: (i) any substance which is or contains any "hazardous substance" as now or hereafter defined in §101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA") (42 U.S.C. §9601 et seq.) or any regulations promulgated under CERCLA and (ii) any additional substances or materials which are now or hereafter classified or considered to be hazardous or toxic under Environmental Requirements (as defined below) or the common law, or any other applicable laws relating to the Premises. Notwithstanding the foregoing, Lessee is expressly permitted to use diluted amounts of chlorine in connection with its operation of the Facilities on the Surface Site, subject to the terms and conditions of this Agreement, including, but not limited to, the indemnity obligations set forth in paragraph 12 below.

12. **Indemnity**.

(a) Lessor shall not be liable to Lessee, nor to any of Lessee's agents, servants, invitees, guests, employees, licensees, contractors or anyone entering the Premises on Lessee's behalf (collectively, the "**Lessee Parties**") for (i) any injury or damage to persons or property on or about the Premises irrespective of how such injury or damage may be caused REGARDLESS OF WHETHER ARISING FROM OR ATTRIBUTABLE TO THE STRICT LIABILITY, NEGLIGENCE OR OTHER FAULT OF LESSOR, LESSOR'S PARENTS, SUBSIDIARIES, AFFILIATES, AND ANY OF THEIR AGENTS OR EMPLOYEES AND ANY ACT OR OMISSION WHICH MAY RESULT IN IMPOSITION OF STRICT LIABILITY (BY STATUTE OR UNDER COMMON LAW) UPON LESSOR, LESSOR'S PARENTS, SUBSIDIARIES, AFFILIATES, AND ANY OF THEIR AGENTS OR EMPLOYEES, whether such claims are made by Lessee Parties or any third parties entering upon the Premises or (ii) any claim by Lessee, and Lessee expressly waives any such claim, for consequential or exemplary damages arising in connection with the Surface Site and Roadway used by Lessee Parties, any breach of any provision of this Agreement, or the actions or operations of Lessee Parties upon the Premises.

(b) Lessee shall defend, indemnify and hold harmless Lessor and Lessor's parents, subsidiaries, affiliates, and each of their directors, employees, agents, officers, representatives and their successors and assigns (collectively, "**Indemnitees**") from and against any and all claims, demands, and causes of action for any injury (including death) or damage to persons or property arising out of, incidental to, or resulting from any claim for which Lessor has been relieved of liability under paragraph 12(a) above, and from and against all costs and expenses incurred by Indemnitees by reason of any such claim or claims, including reasonable attorneys' and expert witness' fees. Any permitted assignee of Lessee's interest in the Surface Site and Roadway used by Lessee Parties or this Agreement, including any portion thereof, shall agree to indemnify and hold harmless Indemnitees in the same manner provided above. Such indemnity shall apply to any claim arising out of operations conducted under or pursuant to this Agreement, howsoever caused, REGARDLESS OF WHETHER ARISING FROM OR ATTRIBUTABLE TO THE STRICT LIABILITY, NEGLIGENCE OR OTHER FAULT OF INDEMNITEES, LESSEE OR ANY OTHER PERSON; PROVIDED, HOWEVER, THAT NO INDEMNITEE SHALL BE ENTITLED TO INDEMNITY HEREIN TO THE EXTENT THE INDEMNIFIED CLAIMS ARE THE RESULT OF THE GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF SUCH INDEMNITEE SO CLAIMING OR SEEKING INDEMNIFICATION HEREUNDER.

(c) LESSEE SHALL INDEMNIFY, DEFEND AND HOLD INDEMNITEES HARMLESS OF AND FROM AND AGAINST ANY CLAIM OR LOSS, COST, REASONABLE EXPENSE, SUITS, JUDGMENTS OR DAMAGE, OF WHATSOEVER KIND, INCLUDING ENVIRONMENTAL DAMAGES, WHETHER TO PERSON OR PROPERTY, INCLUDING REASONABLE ATTORNEY'S FEES, EXPERT WITNESS FEES, AND COURT COSTS, TO ANY PERSON OR PERSONS OR ANY PROPERTY RESULTING FROM LESSEE PARTIES' CONDUCT OR THE OPERATIONS AUTHORIZED BY THIS AGREEMENT, REGARDLESS OF WHETHER ARISING FROM OR ATTRIBUTABLE TO THE STRICT LIABILITY, NEGLIGENCE OR OTHER FAULT OF INDEMNITEES, LESSEE OR ANY OTHER PERSON; PROVIDED, HOWEVER, THAT NO INDEMNITEE SHALL BE ENTITLED TO INDEMNITY HEREIN TO THE EXTENT THE INDEMNIFIED CLAIMS ARE THE RESULT OF THE GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF SUCH INDEMNITEE SO CLAIMING OR SEEKING INDEMNIFICATION HEREUNDER. LESSEE AGREES TO PROVIDE SUFFICIENT INSURANCE COVERAGE FOR ALL OPERATIONS

AND LIABILITIES THAT MAY OCCUR IN THE CONSTRUCTION, MAINTENANCE AND USE OF SAID SURFACE SITE AND ROADWAY USED BY LESSEE PARTIES.

(d) Lessee's obligations under paragraph 12(c) above to indemnify, defend and hold harmless the Indemnitees shall include without limitation of the generality of the foregoing, any and all costs, expenses, liabilities and obligations of any kind arising in any manner in connection with Lessee's conduct under this Agreement arising from or relating to (i) the presence or existence of any Hazardous Materials in, on, or under the Premises or upon or affecting the environment beyond the physical boundaries of the Premises unless Lessee can demonstrate that the Hazardous Material was not placed on the Premises by Lessee Parties, its agents or employees; (ii) any act or omission of Lessee Parties resulting in any actual or threatened release, spill, emission or contamination of any Hazardous Material, gaseous or liquid hydrocarbon or product thereof, or any produced or waste water; (iii) the failure of any Lessee Parties to comply with all laws, ordinances, regulations, agreements, judgments, orders, and decrees, now or hereafter enacted, promulgated, or amended and relating to pollution, the protection of human health and safety, natural resources, or the environment, the regulation of oil, gas and other mineral exploration, production, and transmission, or the regulation or remediation of chemicals, contaminants, industrial, toxic or Hazardous Material (collectively, "**Environmental Requirements**"); and (iv) the breach of any term, provision or covenant of this Agreement. This indemnity shall expressly survive the termination of this Agreement. Without limiting the generality of the foregoing, the indemnification provided in this paragraph shall specifically cover costs, including capital, operating and maintenance costs, incurred in connection with any investigation or monitoring of site conditions, any cleanup, containment, remedial action, removal, or restoration work required or performed by or for any federal, state or local governmental agency or political subdivision or performed by or for any nongovernmental entity or person because of the presence, suspected presence, release, or suspected release of any Hazardous Material covered by any environmental law in or into the air, soil, ground water, or surface water at, on, about, under, or within the Premises or any portion thereof, or elsewhere caused by or arising out of operations conducted by or for Lessee and any claims of third parties for loss or damage due to such Hazardous Material. LESSEE'S OBLIGATION TO INDEMNIFY INDEMNITEES SHALL APPLY REGARDLESS OF WHETHER ARISING FROM OR ATTRIBUTABLE TO THE STRICT LIABILITY, NEGLIGENCE OR OTHER FAULT OF INDEMNITEES, LESSEE OR ANY OTHER PERSON; PROVIDED, HOWEVER, THAT NO INDEMNITEE SHALL BE ENTITLED TO INDEMNITY HEREIN TO THE EXTENT THE INDEMNIFIED CLAIMS ARE THE RESULT OF THE GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF SUCH INDEMNITEE SO CLAIMING OR SEEKING INDEMNIFICATION HEREUNDER. Lessee further covenants and agrees to comply with all applicable Environmental Requirements applicable to the Premises, and Lessee shall not engage in or permit others to engage in any activity in violation of any applicable Environmental Requirements.

13. **Use of Dirt and Caliche**. Lessee agrees to pay standard market rate, but in no event less than Six and No/100 Dollars ($6.00) per cubic yard, for any and all dirt or caliche used or taken by Lessee and agrees to ensure that payments are made as herein set forth for dirt or caliche used or taken by any contractor or subcontractor pursuant to the anticipated operations of Lessee. No dirt or caliche may be brought onto the Premises from property not owned by Lessor without the Lessor's prior written consent. Prior to taking or removing any dirt or caliche, Lessee must first secure written permission from Lessor as to the location and site from which the dirt or caliche is taken.

14. **No Warranty**. This Agreement is made without express or implied warranties whether the same arise by the common law or by statute, including but not limited to the Texas Property Code. As such all warranties are expressly disclaimed and excluded and none shall be implied. LESSOR HAS NOT MADE AND DOES NOT MAKE ANY REPRESENTIONS AS TO ANY MATTERS AFFECTING OR RELATED TO THE PREMISES AND THE SAME IS ACCEPTED BY LESSEE "AS IS."

15. **Assignment**.

(a) Lessee may not sublet or assign this Agreement or any part hereof or interest herein to any person or entity or, in the event of a reorganization, merger, consolidation or asset sale, to any other entity which assumes the assets of Lessee under that reorganization, merger, consolidation or asset sale, without the express prior written consent of Lessor and payment of the

Lessor Assignment Consideration (defined below). Any permitted assignee of Lessee of any rights hereunder shall agree in writing to be bound by the terms of this Agreement, including, but not limited to, all covenants and indemnitees contained in paragraph 12 above, and Lessee shall furnish to Lessor a copy of such agreement within thirty (30) days of such assignment. For the avoidance of doubt, no assignment by Lessee of this Agreement, or any rights hereunder, shall relieve Lessee of any subsequent liability unless the express written release of such liability shall be obtained from Lessor. Any attempted assignment which fails to comply with the foregoing shall not only be void, but shall also require Lessee to reimburse Lessor's administrative and legal expense incurred as a result of violation of this paragraph at an agreed rate of not less than One Hundred and No/100 Dollars ($100.00) per day calculated from the date of the attempted assignment.

(b) Notwithstanding anything to the contrary contained herein, it is expressly understood and agreed that if Lessee assigns this Agreement to a permitted assignee or a majority interest in Lessor is assigned, transferred or conveyed, Lessee shall owe to Lessor five percent (5%) of the gross income, monetary benefit, or other consideration received by Lessor ("**Lessor Assignment Consideration**") for such sale, assignment, or conveyance. No assignment or amendment hereto shall be effective unless said assignment or amendment shall be in writing and signed by both Lessor and Lessee. Lessee agrees to provide all necessary information, contracts, purchase and sale agreements, term sheets, and other documents necessary to confirm the amount of Lessor Assignment Consideration prior to seeking Lessor's signed consent to Assignment.

16. **Termination**. Cessation of use of the Premises as described herein for any continuous period of six (6) months, or failure to construct the Surface Site and Roadway within eighteen (18) months from the date hereof, shall be conclusively deemed to be abandonment by Lessee of same and of any rights and privileges hereunder, and this Agreement shall automatically terminate, except for the obligations of Lessee under paragraphs 7, 8, 9, 10, 12, 13, 17, 18, 19, 21, 22 and 32, which shall survive the expiration or termination hereof.

17. **Environmental Protection**. Lessee shall exercise a high degree of care with regard to the Premises and shall preserve and protect the natural environmental conditions of the Premises and shall avoid and prevent all contamination, spills and environmental damage upon the Premises to the extent reasonably practicable. Lessee agrees to take those reclamation or corrective actions that are accepted soil and water conservation practices and that are reasonably deemed necessary by Lessor to protect the Premises from pollution, erosion, noxious weeds and plants or other environmental degradation.

18. **Reclamation**. Prior to the expiration or termination of this Agreement, and unless Lessor otherwise consents in writing, Lessee shall remove all Facilities and other structures and equipment which it placed on the Premises and Lessee shall reclaim the Premises by grading, leveling or terracing all or portions of the areas disturbed by the construction, maintenance, use or removal of the Surface Site and/or Roadway or operations thereon and to landscape such areas at its own cost and expense if and to the extent requested by Lessor. Landscaping shall be deemed herein as to returning the disturbed areas to their natural state so as to prevent water and wind erosion, including reseeding and revegetating such areas with grass seed of a type selected by Lessor.

19. **Holding Over**. In the event Lessee occupies the Premises or any part thereof after the expiration or earlier termination of this Agreement, unless otherwise agreed to in writing by Lessor, Lessee shall be considered a tenant-at-will only at a daily rental equal to the consideration amount listed herein above. In no event shall such holding over constitute or be construed as a renewal or extension of this Agreement, and upon the expiration or earlier termination of this Agreement, Lessee shall immediately surrender the Premises to Lessor on demand by Lessor.

20. **Use Restrictions**. This Agreement does not cover or include any right or privilege of hunting or fishing on the Premises, nor of any other recreational or agricultural use of the Premises, all such rights being expressly reserved to Lessor. No dogs, illegal drugs, alcohol or firearms shall be permitted on the Premises. Lessee shall be responsible for Lessee Parties' compliance with this paragraph. Any failure by Lessee to comply with the provisions of this paragraph shall constitute a material breach of this Agreement.

21. **Liens**. It is expressly understood and agreed that if Lessee does or permits to be done anything that creates a lien upon the Premises, and such lien is not removed or bonded around

within forty-five (45) days after written notice from Lessor, Lessor may, but shall not be obligated to, pay the same or any portion thereof without inquiry as to the validity thereof, and Lessee shall repay any amounts so paid, plus expenses, to Lessor immediately upon demand. All sums to which Lessor shall be entitled to receive shall bear interest from the date of demand at the highest lawful rate.

22. **Remedies**. Upon the occurrence of any breach of any provision of this Agreement, or of any default hereunder, by Lessee, that is not cured within thirty (30) days after written notice of the existence of such breach or default, Lessor shall have the option and right to pursue any one or all of the following remedies without any notice or demand whatsoever:

(a) Terminate this Agreement, in which event Lessee shall immediately surrender possession of the Premises to Lessor; and if Lessee fails to do so, Lessor may, without prejudice to any other remedy which Lessor may have for possession or arrearages in royalties or any other sum due hereunder, enter upon and take possession of the Premises and expel or remove Lessee and any other person who may be occupying the Premises, or any part thereof.

(b) Enter upon and take possession of the Premises and expel or remove Lessee, or any other person who may be occupying the Premises, or any part thereof.

(c) Enter upon the Premises and do whatever Lessee is obligated to do under the terms of this Agreement; and Lessee agrees to reimburse Lessor, on demand, for any expenses which Lessor may incur in effecting compliance with Lessee's obligations under this Agreement, and all sums to which Lessor shall be entitled to receive shall bear interest from the date of demand at the highest lawful rate.

(d) Exercise any other remedies allowed by law or in equity.

Pursuit of any of the foregoing remedies shall not preclude pursuit of any other remedy herein provided or any other remedies provided by law, nor shall pursuit of any remedy herein constitute a forfeiture or waiver of any payment due to Lessor hereunder or of any damages accruing to Lessor by reason of the violation of the terms, provisions and covenants herein contained. The rights and privileges given to Lessor in this paragraph 22 shall be cumulative of, and without prejudice to, any rights or remedies given to Lessor by law to procure possession, or to enforce the payment of rent, or performance of the other covenants hereof. No waiver by Lessor of any violation or breach of any of the terms, provisions and covenants herein contained shall be effective unless such waiver shall be expressed in writing, and no waiver hereunder shall be deemed or construed to constitute a waiver of any other or future violation or breach of any of the provisions, conditions or covenants herein contained. Forbearance by Lessor to enforce one or more of the remedies herein provided upon an event of default shall not be deemed or construed to constitute a waiver of such default.

23. **Insurance**. Lessee shall purchase and maintain at its sole expense, and shall provide Lessor proof of, the following insurance, which shall name Lessor as an additional insured (except workers compensation) and include a waiver of any and all rights of subrogation against Lessor, with coverages and limits at levels customary in the industry for performing the work, activities, operations and services similar to those to be performed as described in this Agreement, but at levels not less than the minimums indicated below:

(a) **Commercial General Liability**. Commercial General Liability Insurance covering premises/operations, contractual liability, products/completed operations and independent contractors with a limit of One Million Dollars ($1,000,000.00) per occurrence and Two Million Dollars ($2,000,000.00) annual aggregate. If the policy is written on a "claims made" form, it shall provide for an extended reporting period of not less than three (3) years.

(b) **Workers' Compensation**. Workers' Compensation Insurance covering all employees and independent contractors in accordance with applicable federal and state statutory coverage limits for those jurisdictions where operations are performed.

(c) **Employers' Liability**. Employers' Liability Insurance with limits of liability no less than the minimum single limit of One Million Dollars ($1,000,000.00).

(d) **Automobile Liability**. Automobile liability insurance covering all owned, non-owned and hired vehicles used in the operations or activities under the contract with limits of One Million Dollars ($1,000,000.00) combined single limit for bodily injury and property damage.

(e) **Commercial Umbrella Policy**. Commercial Umbrella Insurance with occurrence coverage of not less than Ten Million Dollars ($10,000,000.00) and aggregate coverage of not less than Ten Million Dollars ($10,000,000.00).

Policies will be primary, not excess or contributory, in regard to any other applicable policies. Lessee shall have the right to self-insure any or all of the foregoing insurance requirements, provided that Lessee shall provide Lessor with documentation of such self-insurance in amounts consistent with this Agreement.

24. **Right to Withhold Consent**. Lessor shall be under no obligation to grant any consent required or to be obtained under this Agreement, and any such consent may be withheld by Lessor at its sole discretion for any reason or no reason.

25. **No Waiver of Rights**. Unless expressly waived in writing by Lessor, no right under this Agreement that Lessor fails to exercise or enforce shall be deemed a waiver of any such right, nor shall Lessor be prohibited from the exercise of any such right at any time thereafter.

26. **Severability**. If any provision of this Agreement is held to be illegal, invalid or unenforceable under present or future laws effective during the term hereof, such provision shall be fully severable; this Agreement shall be construed and enforced as if such illegal, invalid or unenforceable provision had never comprised a part hereof, and the remaining provisions of this Agreement shall remain in full force and effect and shall not be affected by the illegal, invalid or unenforceable provision or by its severance from this Agreement.

27. **Choice of Law; Venue**. This Agreement shall be governed by and construed and interpreted in accordance with the laws of the State of Texas, without regard to conflict of laws principals. The exclusive venue for any action under this Agreement shall be the federal or Texas state district courts of Dallas County, Texas.

28. **Notice**. All notices, requests and communications (excluding payments) required or permitted hereunder shall be in writing addressed to the respective parties at the address set forth above, or at such other address as the respective parties have theretofore specified by written notice delivered in accordance herewith, and shall be deemed to have been properly given when delivered personally or when deposited in the United States Mail (with return receipt requested), certified, postage prepaid, or sent by overnight courier.

29. **Entire Agreement**. This Agreement embodies and includes the entire agreement between the parties with respect to the subject matter contained herein. This Agreement may only be amended or modified by the mutual written agreement of both parties hereto or their respective successors in interest. If there are conflicts between any exhibit and the body of this Agreement, the body of this Agreement will control.

30. **Counterpart Execution; Signatures**. This Agreement may be executed in multiple identical counterparts, each of which shall be deemed an original for all purposes, and all of which shall constitute, collectively, a single agreement. Copies of signatures, whether by facsimile, photocopy, or electric scans, shall be treated as originals for all purposes hereunder.

31. **Memorandum**. It is agreed that this Agreement shall not be filed in any public records. In lieu of filing this Agreement for record, Lessor and Lessee agree that a memorandum of this Agreement making appropriate reference hereto and to the Premises shall be filed of record in the county wherein the Premises is located. In the event of any conflict between recitations contained in such memorandum and those contained herein, the provisions of this Agreement shall control.

32. **Release**. Upon expiration or termination of this Agreement for whatever reason, Lessee shall furnish Lessor a recordable release of this Agreement and rights herein granted, and shall place said release of record in the Official Public Records of the county in which the Premises is located.

This Agreement shall be binding upon and shall inure to the benefit of Lessor and Lessee and their respective heirs, executors, administrators, successors and permitted assigns.

(Signatures on the following page)

IN WITNESS WHEREOF, this Agreement is executed as of the date of each party's respective acknowledgement, but shall be effective as of the Effective Date first written above.

LESSOR:

TEXAS PACIFIC RESOURCES LLC

By: _____

Name: Kevin Pierce MB

Title: Director of Land

LESSEE:

PALOMA WASTEWATER SERVICES LLC

By: _____

Name: _____

Title: V.P. Land

(Acknowledgements on the following page)

STATE OF TEXAS §
§
COUNTY OF DALLAS §

BEFORE ME, the undersigned, a Notary Public in and for said State, on this day personally appeared Kevin Pierce, Director of Land for TEXAS PACIFIC RESOURCES LLC, a Texas limited liability company, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 23rd day of April, 2024.

WILLIAM LUKE KEENAN
Notary ID #131501882
My Commission Expires
March 23, 2026

William Luke Keenan
Notary Public in and for the State of Texas

STATE OF Texas §
§
COUNTY OF Midland §

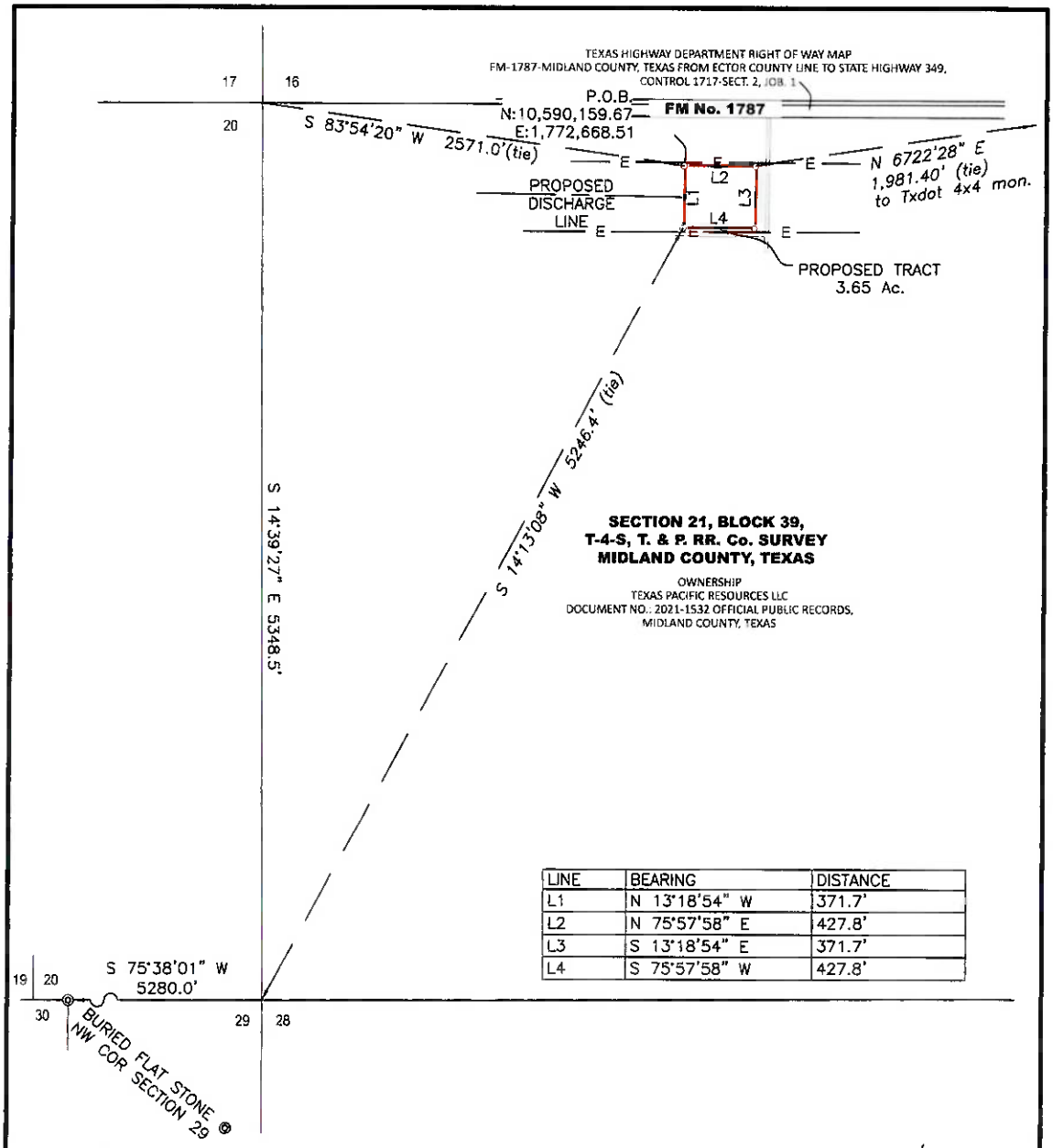
BEFORE ME, the undersigned, a Notary Public in and for said State, on this day personally appeared Andrew Phagens VP Land of PALOMA WASTEWATER SERVICES LLC, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 17th day of April, 2024

DARCY ANDERSON
Notary ID #11908787
My Commission Expires
November 23, 2026

Darcy Anderson
Notary Public in and for the State of Texas

EXHIBIT A



LINE	BEARING	DISTANCE
L1	N 13°18'54" W	371.7'
L2	N 75°57'58" E	427.8'
L3	S 13°18'54" E	371.7'
L4	S 75°57'58" W	427.8'

ORIGINAL SIZE = 8.5X14 in.

NOTE: All bearings, distances, coordinates, and areas shown hereon are based on the Texas State Plane Coordinate System (NAD83) Texas Central Zone. Based upon a ½ inch iron rod found at N: 10,587,138.626, E: 1,774,741.660, Elev.: 2765.76 feet (NAVD88), having a Convergence angle of −0.86428333, and a combined grid factor of 0.99982804.

THIS MAP WAS PREPARED FROM AN ACTUAL ON THE GROUND. SURVEY PERFORMED UNDER MY SUPERVISION ON MARCH 25,2024

MARCUS L. HOSTAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF TEXAS NO. 5643
marcus.hostas@hpfconsultants.com
432-235-8111

STATE OF TEXAS REGISTERED MARCUS L. HOSTAS 5643 PROFESSIONAL LAND SURVEYOR

HPF CONSULTANTS, INC.
ENGINEERING AND DESIGN
TEXAS REGISTERED
SURVEYING FIRM 10194683
432.235.8111
3106 N Big Spring Street
Midland, Texas 79705
MARCUS.HOSTAS@HPFCONSULTANTS.COM

DATE:	4/9/24
DRAWN BY:	CJP
CHK BY:	MLH
PROJECT#:	S24016
FIELD DATE:	3/25/24

J:\Drew Plagens\Drawings\TRACT-20240326.dwg

EXHIBIT A

LEGAL DESCRIPTION of a proposed 3.65 acre tract of land out of that certain tract of land as described in the deed to Texas Pacific Resources LLC, filed of record in Document No.: 2021–1532, Official Public Records, Midland County, Texas. Subject tract situated in Section 21, Block 39, T–4–S, T. & P. R.R. Co. Survey, Midland County, Texas and being more particularly described as follows:

NOTE: All bearings, distances, coordinates, and areas shown hereon are based on the Texas State Plane Coordinate System (NAD83) Texas Central Zone. Based upon a ½ inch iron rod found at N: 10,587,138.626, E: 1,774,741.660, Elev.: 2765.76 feet (NAVD88), having a Convergence angle of –0.86428333, and a combined grid factor of 0.99982804.

BEGINNING at (N: 10,590,159.67, E:1,772,668.51) the Northwest corner of the herein described tract a set ½ inch iron rod with orange plastic cap marked "HPF Consult", from which the northwest corner of said Section 21 bears South 83°54'20" West a distance of 2,571.0 feet;

THENCE North 75°57'58" East 20 foot south of and parallel to an existing overhead electric line, a distance of 427.8 feet to the Northeast corner of the herein described tract a set ½ inch iron rod with orange plastic cap marked "HPF Consult", from which a 4"x4" concrete TXDOT ROW monument found at the cut–off corner of the intersection of FM 1787 and State Highway No. 349 bears North 67°22'28" East a distance of 1,981.40 feet;

THENCE South 13°18'54" East a distance of 371.7 feet to the Southeast corner of the herein described tract a set ½ inch iron rod with orange plastic cap marked "HPF Consult";

THENCE South 75°57'58" West a distance of 427.80 feet to the Southwest corner of the herein described tract a set ½ inch iron rod with orange plastic cap marked "HPF Consult" from which the Southwest corner of said Section 21 bears South 14°13'08" West a distance of 5246.4 feet and from said Southwest corner of said Section 21 a large buried flat stone found at the Northwest corner of Section 29, Block 39, T–4–S, T. & P. R.R. Co. Survey bears South 75°38'01" West a distance of 5280.0 feet;

THENCE North 13°18'54" West a distance of 371.7 feet to the POINT OF BEGINNING.

Subject tract containing 3.65 acres of land.

THIS MAP WAS PREPARED FROM AN ACTUAL ON THE GROUND. SURVEY PERFORMED UNDER MY SUPERVISION ON March 25, 2024

MARCUS L. HOSTAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF TEXAS NO. 5643
marcus.hostas@hpfconsultants.com
432–235–8111

STATE OF TEXAS · REGISTERED · MARCUS L. HOSTAS · 5643 · PROFESSIONAL · LAND SURVEYOR

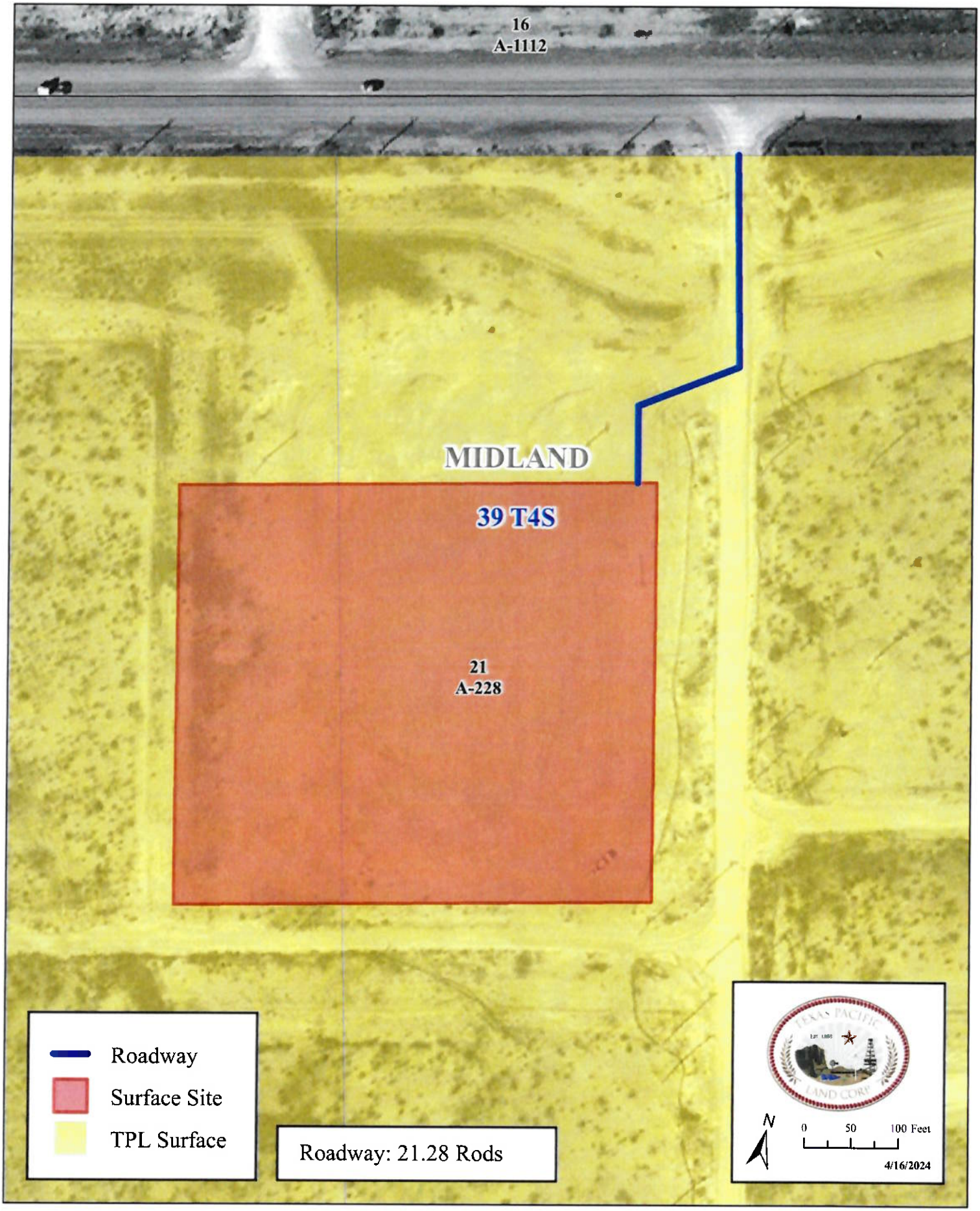
J:\Drew Plagens\Drawings\TRACT-20240326.dwg

HPF CONSULTANTS, INC.
ENGINEERING AND DESIGN
TEXAS REGISTERED
SURVEYING FIRM 10194683

432.235.8111
3106 N Big Spring Street
Midland, Texas 79705
MARCUS.HOSTAS@HPFCONSULTANTS.COM

DATE:	4/9/24
DRAWN BY:	CJP
CHK BY:	MLH
PROJECT#:	S24016
FIELD DATE:	3/25/24

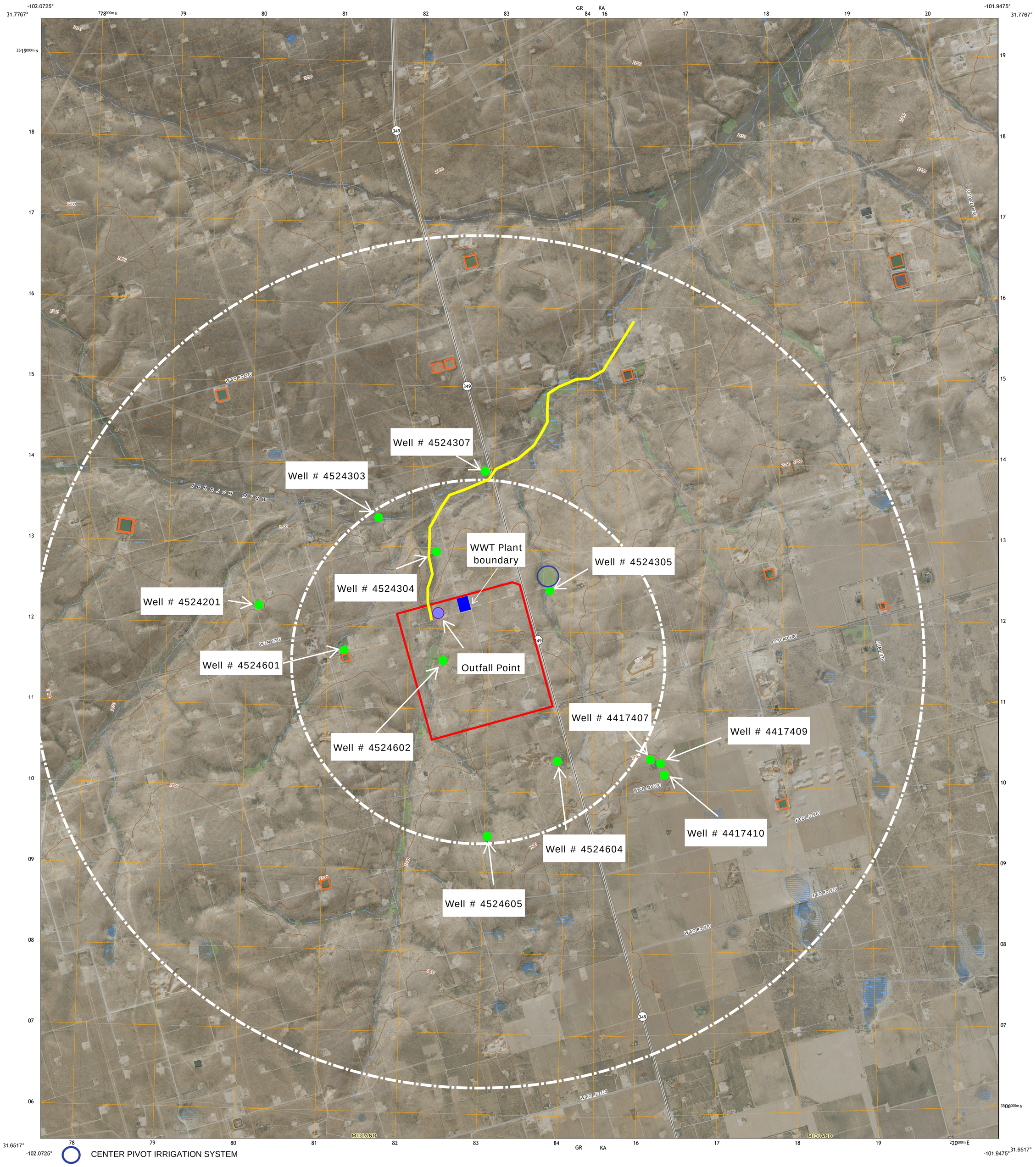
EXHIBIT A


16
A-1112
MIDLAND
39 T4S
21
A-228
Roadway
Surface Site
TPL Surface
Roadway: 21.28 Rods
N
0
50
100 Feet
4/16/2024

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

The National Map
OnDemand Topo

7.5-MINUTE TOPO QUADRANGLE
Custom Extent
7.5-MINUTE TOPO



CENTER PIVOT IRRIGATION SYSTEM

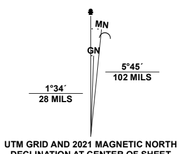
LAND APPLICATION EVAPORATION POND

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 13R\14R

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: https://nationalmap.gov



UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

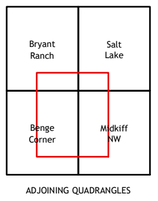
U.S. National Grid	
100,000 - m Square ID	
GR	KA
102°W	
Grid Zone Designation	
13R	14R
102°W	

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

QUADRANGLE LOCATION

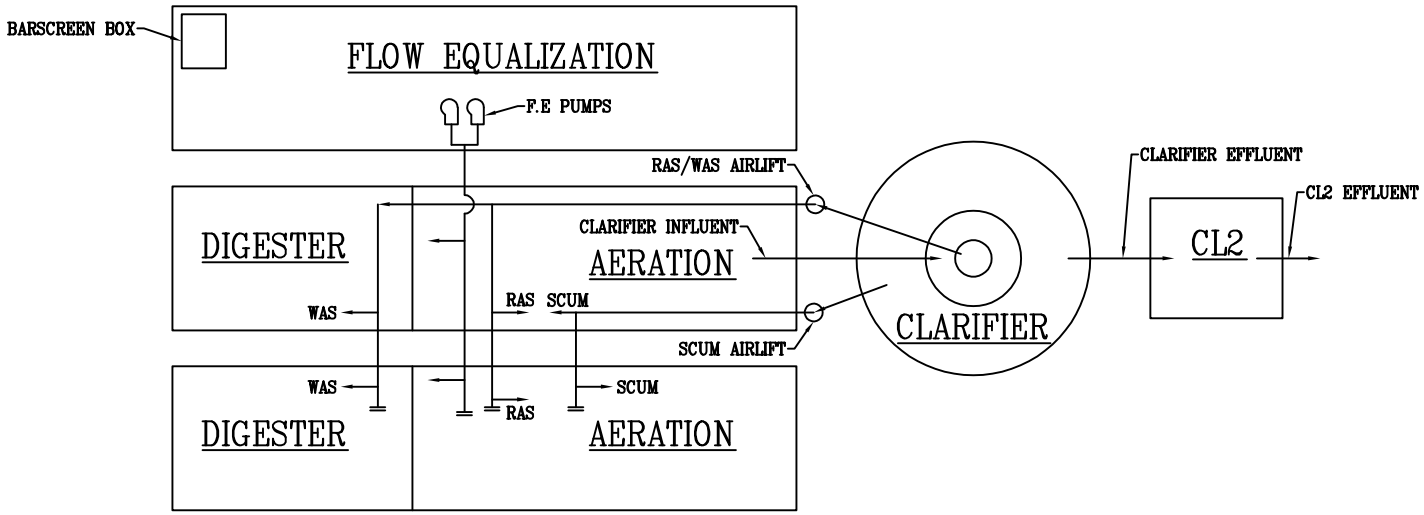


ADJOINING QUADRANGLES

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
State Route	

7.5-MINUTE TOPO, TX
2024



PROCESS FLOW DIAGRAM

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY OTHER PROJECT THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION BY AUC Group.

TPL #1
75,000 GPD

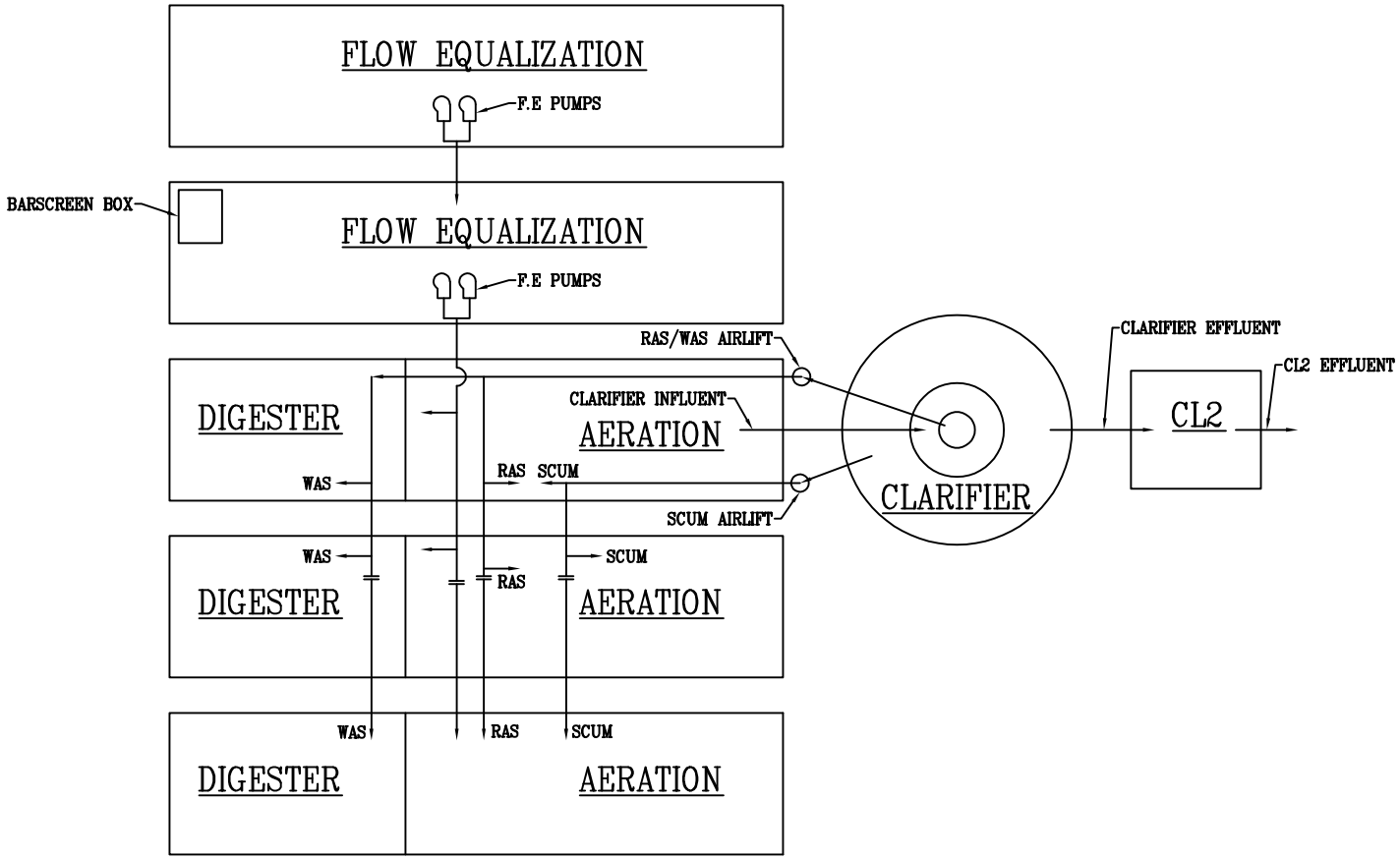
WASTEWATER TREATMENT PLANT

SCALE: N/A	APPROVED BY: HS	DRAWN BY: EV
DATE: 5/8/2024		REVISED:

AUC GROUP

PROCESS FLOW DIAGRAM

DRAWING NUMBER: WW0000-01



PROCESS FLOW DIAGRAM

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TPL #1
150,000 GPD

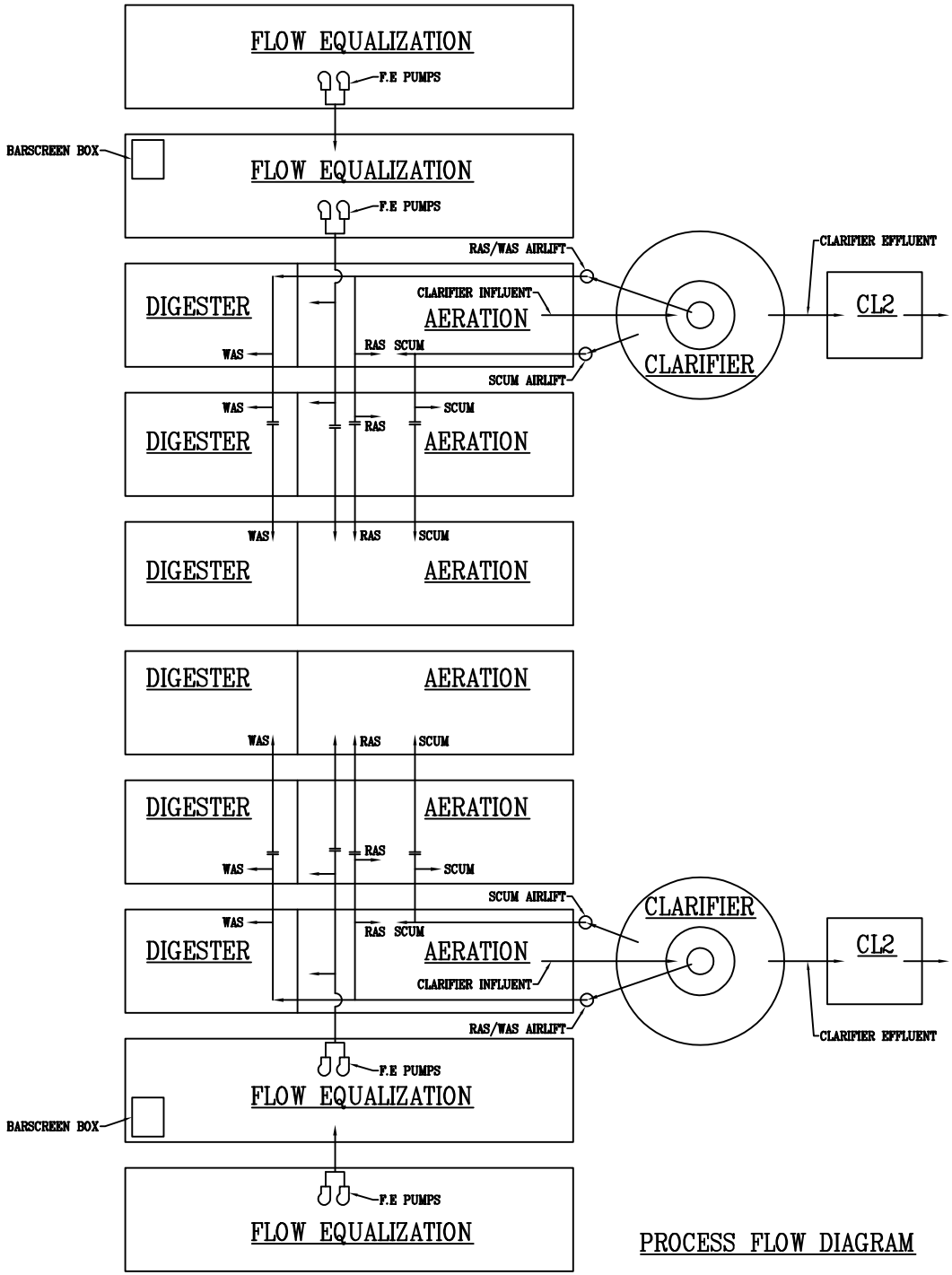
WASTEWATER TREATMENT PLANT

SCALE: N/A	APPROVED BY: HS	DRAWN BY: EV
DATE: 5/8/2024		REVISED:

AUC GROUP

PROCESS FLOW DIAGRAM

DRAWING NUMBER: WW0000-01



PROCESS FLOW DIAGRAM

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TPL #1
300,000 GPD

WASTEWATER TREATMENT PLANT

SCALE: N/A	APPROVED BY: HS	DRAWN BY: EV
DATE: 5/8/2024		REVISED:

AUC GROUP

PROCESS FLOW DIAGRAM

DRAWING NUMBER: WW0000-01

Legend
Service Area Boundary
Facility Boundary

DRAWN BY:	RRH
CHECKED BY:	RC
GIS SCALE:	AS SHOWN
DATE:	05-10-2024

Terracon Explore with us

Terracon Project No. 92247379

15 Mile Service Area Map

TLP #1 WWTP
2311 W FM 1787
Midland, Midland County, Texas 79706

Attachment 6

TPL #1 - 75,000 GPD

Phase 1

Data	Quantity			
Permitted Average Daily Flow	75,000	gpd	52 gpm	0.116 cfs
Peak 2-hour Flow	112,500	gpd	78 gpm	0.174 cfs
BOD5 Loading	325	mg/l		
Maximum Aeration Zone Loading	35	lbs of BOD5 / 1,000 cf		
Minimum Aerobic Digester Loading	20	cf/lbs of BOD5/day		
Minimum SRT for Digester	40	days	@ 1.5	% Concentration
Maximum Clarifier Surface Loading	1,200	gpd/sf (@ peak flow)		
Minimum Clarifier Detention Time	1.8	hr (@ peak flow)		
Minimum Disinfection Basin Detention Time	20	min (@ peak flow)		
Air Supply (Aeration Zone)	3,200	scfm/day/lb of BOD5		
Air Supply (Aerobic Digester)	30	scfm/1,000 cf of volume		
Air Supply (Disinfection)	20	scfm/1,000 cf of volume		

Calculations of Requirements

BOD5 Loading 203.29 lbs/day

Unit Requirements	Quantity
Flow Equalization	3,485 cf
Aeration Zone Volume	5,808 cf
Aerobic Digester Volume at Minimum Loading	4,066 cf
Aerobic Digester Volume at Minimum SRT	2,439 cf
Clarifier Surface Area	94 sf
Clarifier Volume at Minimum Detention Time	1,128 cf
Disinfection Volume	209 cf

Air Supply Requirements	Quantity
Aeration Process	424 scfm
Digester	154 scfm
Disinfection	18 scfm
Air Lift Pumps & Initial Mixing	76 scfm
Total Air Required	672 scfm

Note: The process calculation is based on 10' of submergence with a correction factor of 1.56 and clean water transfer efficiency of 0.85% per foot of submergence.

Proposed Unit Features

Proposed Units	Quantity	#Units	Length	Width	Height	SWD
Flow Equalization	6,658 cf	1	52	12	12.17	10.67
Aeration Zone Volume	7,526 cf	2	32	12	12.17	9.80
Aerobic Digester Volume	5,122 cf	2	20	12	12.17	10.67
Clarifier Surface Area (Oversized)	299 sf	1		19.5	14.17	
Clarifier Volume	2,664 cf					8.92
Chlorine Contact Volume (Oversized)	880 cf	1	10	11	12.17	8.00
Blowers	400 scfm	3	20.0 hp			

TPL #1 - 150,000 GPD

Phase 2

Data	Quantity			
Permitted Average Daily Flow	150,000 gpd	104 gpm	0.232 cfs	
Peak 2-hour Flow	225,000 gpd	156 gpm	0.348 cfs	
BOD5 Loading	325 mg/l			
Maximum Aeration Zone Loading	35 lbs of BOD5 / 1,000 cf			
Minimum Aerobic Digester Loading	20 cf/lbs of BOD5/day			
Minimum SRT for Digester	40 days	@	1.5 % Concentration	
Maximum Clarifier Surface Loading	1,200 gpd/sf (@ peak flow)			
Minimum Clarifier Detention Time	1.8 hr (@ peak flow)			
Minimum Disinfection Basin Detention Time	20 min (@ peak flow)			
Air Supply (Aeration Zone)	3,200 scfm/day/lb of BOD5			
Air Supply (Aerobic Digester)	30 scfm/1,000 cf of volume			
Air Supply (Disinfection)	20 scfm/1,000 cf of volume			

Calculations of Requirements

BOD5 Loading 406.58 lbs/day

Unit Requirements	Quantity
Flow Equa;ization	6,970 cf
Aeration Zone Volume	11,616 cf
Aerobic Digester Volume at Minimum Loading	8,132 cf
Aerobic Digester Volume at Minimum SRT	4,879 cf
Clarifier Surface Area	188 sf
Clarifier Volume at Minimum Detention Time	2,256 cf
Disinfection Volume	418 cf

Air Supply Requirements	Quantity
Aeration Process	849 scfm
Digester	230 scfm
Disinfection	23 scfm
Air Lift Pumps & Initial Mixing	170 scfm
Total Air Required	1,272 scfm

Note: The process calculation is based on 10' of submergence with a correction factor of 1.56 and clean water transfer efficiency of 0.85% per foot of submergence.

Proposed Unit Features

Proposed Units	Quantity	#Units	Length	Width	Height	SWD
Flow Equalization	13,316 cf	2	52	12	12.17	10.67
Aeration Zone Volume	12,292 cf	3	32	12	12.17	10.67
Aerobic Digester Volume	7,682 cf	3	20	12	12.17	10.67
Clarifier Surface Area	299 sf	1		19.5	14.17	
Clarifier Volume	2,986 cf					10.00
Chlorine Contact Volume	1,174 cf	1	10	11	12.17	10.67
Blowers	500 scfm	4	30.0 hp			

TPL #1 - 300,000 GPD

Phase 3

Data	**Quantity**			
Permitted Average Daily Flow	300,000 gpd	208 gpm	0.464 cfs	
Peak 2-hour Flow	450,000 gpd	313 gpm	0.696 cfs	
BOD5 Loading	325 mg/l			
Maximum Aeration Zone Loading	35 lbs of BOD5 / 1,000 cf			
Minimum Aerobic Digester Loading	20 cf/lbs of BOD5/day			
Minimum SRT for Digester	40 days	@	1.5 % Concentration	
Maximum Clarifier Surface Loading	1,200 gpd/sf (@ peak flow)			
Minimum Clarifier Detention Time	1.8 hr (@ peak flow)			
Minimum Disinfection Basin Detention Time	20 min (@ peak flow)			
Air Supply (Aeration Zone)	3,200 scfm/day/lb of BOD5			
Air Supply (Aerobic Digester)	30 scfm/1,000 cf of volume			
Air Supply (Disinfection)	20 scfm/1,000 cf of volume			

Calculations of Requirements

BOD5 Loading 813.15 lbs/day

Unit Requirements	**Quantity**
Flow Equa;ization	13,940 cf
Aeration Zone Volume	23,233 cf
Aerobic Digester Volume at Minimum Loading	16,263 cf
Aerobic Digester Volume at Minimum SRT	9,758 cf
Clarifier Surface Area	375 sf
Clarifier Volume at Minimum Detention Time	4,512 cf
Disinfection Volume	836 cf

Air Supply Requirements	**Quantity**
Aeration Process	1,697 scfm
Digester	461 scfm
Disinfection	47 scfm
Air Lift Pumps & Initial Mixing	255 scfm
Total Air Required	2,460 scfm

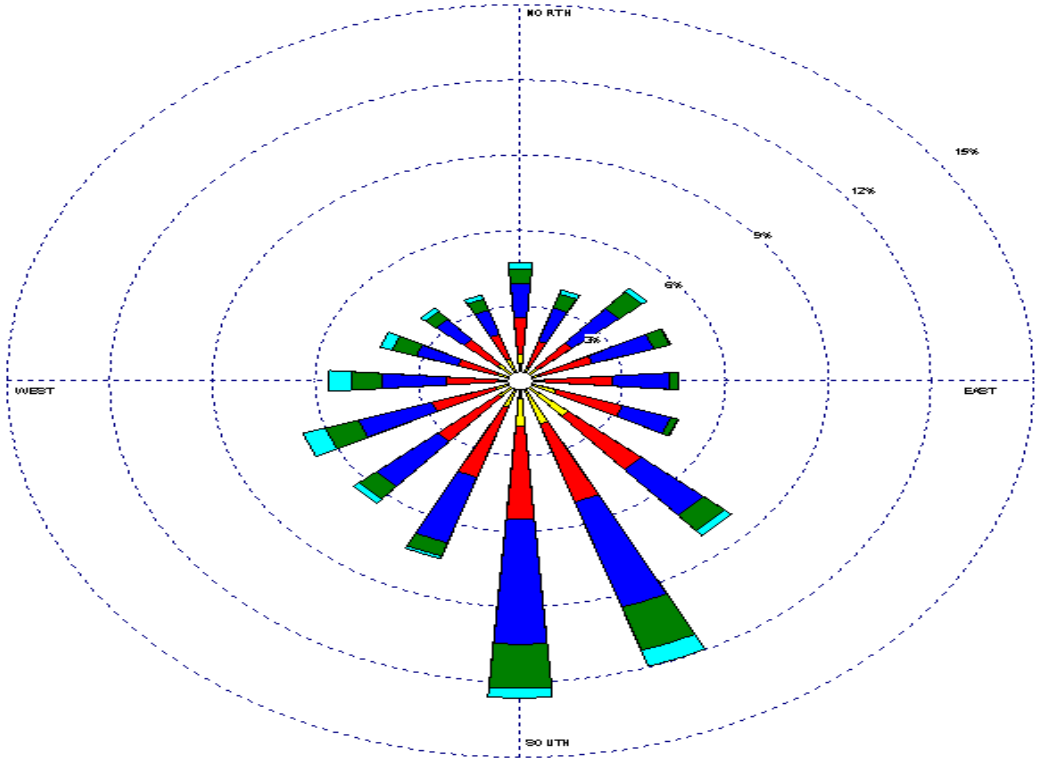
Note: The process calculation is based on 10' of submergence with a correction factor of 1.56 and clean water transfer efficiency of 0.85% per foot of submergence.

Proposed Unit Features

Proposed Units	**Quantity**	**#Units**	**Length**	**Width**	**Height**	**SWD**
Flow Equalization	26,632 cf	4	52	12	12.17	10.67
Aeration Zone Volume	24,584 cf	6	32	12	12.17	10.67
Aerobic Digester Volume	15,365 cf	6	20	12	12.17	10.67
Clarifier Surface Area (Oversized)	603 sf	2		19.6	14.17	
Clarifier Volume	6,034 cf					10.00
Chlorine Contact Volume (Oversized)	2,347 cf	2	10	11	12.17	10.67
Blowers	500 scfm	6	30.0 hp			

WIND ROSE PLOT

Station #23023 - MIDLAND/REGIONAL AIR TERMINAL, TX



Wind Speed (m/s) > 11.06 8.49 - 11.06 5.40 - 8.49 3.34 - 5.40 1.80 - 3.34 0.51 - 1.80	MODELER Sara West	DATE 8/29/2002	COMPANY NAME USDA-ARS
	DISPLAY Wind Speed	UNIT m/s	COMMENTS
	AVG. WIND SPEED 5.97 m/s	CALM WINDS 1.72%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 1961 Apr 1 - Apr 30 Midnight - 11 PM	

WRPLOT View 3.3 by Lakes Environmental Software - www.lakes-environmental.com

PROJECT MNG:	RH/RC	PROJECT NO.:	92247379
DRAWN BY:	RH	SCALE:	AS SHOWN
CHECKED BY:	RC	FILE NO. :	P92237972
APPROVED BY:	RC	DATE:	05/12/2024

Terracon
Consulting Engineers and Scientists
11555 Clay Road Suite 100 Houston, TX 77043
PH. (713) 690-8989 FAX (713) 690-2055

WIND ROSE

TPL#1 WWTP
2311 W Fm 1787 Midalnd, Texas

EXHIBIT

1.0

TPL #1

75,000 GPD WWTP

Sewage Sludge Solids Management Plan

Planning Considerations

Influent Design Flow	0.075	MGD
Total Sludge Holding Tank Volume	8,195	cubic feet
Dimensions	(2) 32-ft X 12-ft X 10.67-ft	
Aeration Basin MLSS (mg/L)	1,500 to 3,000 mg/l	

BOD_5 Removal	Influent Concentration =	325	mg/l
	Effluent Concentration =	10	mg/l
	Net Removal =	315	mg/l

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds BOD_5/day Removed	197	148	99	49
Pounds/Day of Dry Sludge Produced	62	47	31	16
Pounds/Day of Wet Sludge Produced	4,138	3,103	2,069	1,034
Gallons/Day of Wet Sludge Produced	496	372	248	124

Sludge will stay in the digester; clear liquor will be decanted off the digester and returned to the aeration basin. Sludge is wasted from the final clarifier to the aerobic digester. Some sludge from the clarifier is also returned to the aeration basin.

Removal Schedule

Days Between of Sludge Removal	124	165	247	494

Assumptions

(1) Assumed 0.315 pounds of dry sludge produced per pound of BOD5 removed
(2) Assumed solids concentration in the tank 1.5%
(3) Assumed stablized sludge density = water density 8.34 lb/gal

TPL #1

75,000 GPD WWTP EXPANSION (150,000 GPD TOTAL)

Sewage Sludge Solids Management Plan

Planning Considerations

Influent Design Flow	0.15	MGD
Total Sludge Holding Tank Volume	12,292	cubic feet
Dimensions	(3) 32-ft X 12-ft X 10.67-ft	
Aeration Basin MLSS (mg/L)	1,500 to 3,000 mg/l	

BOD_5 Removal	Influent Concentration =	325	mg/l
	Effluent Concentration =	10	mg/l
	Net Removal =	315	mg/l

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds BOD_5/day Removed	394	296	197	99
Pounds/Day of Dry Sludge Produced	124	93	62	31
Pounds/Day of Wet Sludge Produced	8,275	6,207	4,138	2,069
Gallons/Day of Wet Sludge Produced	992	744	496	248

Sludge will stay in the digester; clear liquor will be decanted off the digester and returned to the aeration basin. Sludge is wasted from the final clarifier to the aerobic digester. Some sludge from the clarifier is also returned to the aeration basin.

Removal Schedule

Days Between of Sludge Removal	93	124	185	371

Assumptions

(1) Assumed 0.315 pounds of dry sludge produced per pound of BOD5 removed
(2) Assumed solids concentration in the tank 1.5%
(3) Assumed stablized sludge density = water density 8.34 lb/gal

TPL #1

150,000 GPD WWTP EXPANSION (300,000 GPD TOTAL)

Sewage Sludge Solids Management Plan

Planning Considerations

Influent Design Flow	0.300	MGD
Total Sludge Holding Tank Volume	24,584	cubic feet
Dimensions	(6) 32-ft X 12-ft X 10.67-ft	
Aeration Basin MLSS (mg/L)	1,500 to 3,000 mg/l	

BOD_5 Removal	Influent Concentration =	325	mg/l
	Effluent Concentration =	10	mg/l
	Net Removal =	315	mg/l

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds BOD_5/day Removed	788	591	394	197
Pounds/Day of Dry Sludge Produced	248	186	124	62
Pounds/Day of Wet Sludge Produced	16,551	12,413	8,275	4,138
Gallons/Day of Wet Sludge Produced	1,985	1,488	992	496

Sludge will stay in the digester; clear liquor will be decanted off the digester and returned to the aeration basin. Sludge is wasted from the final clarifier to the aerobic digester. Some sludge from the clarifier is also returned to the aeration basin.

Removal Schedule

Days Between of Sludge Removal	93	124	185	371

Assumptions

(1) Assumed 0.315 pounds of dry sludge produced per pound of BOD5 removed
(2) Assumed solids concentration in the tank 1.5%
(3) Assumed stablized sludge density = water density 8.34 lb/gal

Land Owner List - Midland TLP 1 WWTP

Site Number	Owner ID	Name	Property Address	Mailing Address	Property ID
1	39400161000	BAR V RANCH CO LLC	2318 W FM RD 01787 Midland , TX 79702 BLOCK 16, LOT 1000 , ACRES 637.56	PO BOX 445 Midalnd, TX 79702	R000007181
2	39400171000	TEXAS PACIFIC RESOURCES LLC	3416 W FM 1787 Midland, TX, BLOCK 017, LOT 1000, ACRES 633.94	1700 PACIFIC AVE SUITE 2900 Dallas, TX 75201	R000007182
3	39400201000	BAR V RANCH CO LLC	FM RD 01787 Midland, TX 79702, BLOCK 020, LOT 1000, ACRES 667.5	PO BOX 445 Midalnd, TX 79702	R000007181
4	39400291000	TEXAS PACIFIC RESOURCES LLC	BLOCK 029, LOT 1000, ACRES 640.0	1700 PACIFIC AVE SUITE 2900 Dallas, TX 75201	R000007215
5	39400281020	CLARK MORELAND FAMILY LLC	2200 S HWY 349 Midland, TX 79705, BLOCK 028, LOT 1020, ACRES 424.59	2415 SEABOARD Midland, TX 79705	R000007214
6	39400281100	Roger C Moreland	S HWY 349 Midland, TX 79706, BLOCK 028, LOT 1100, ACRES 10.00	10305 S COUNTY RD 1210 Midland, TX 79706	R000185362
7	39400271020	XTO Holdings	22407 S HWY 349 Midland, TX, BLOCK 027, LOT 1020, ACRES 629.78	22777 SPRINGWOODS VILLAGE PKWY, Spring, TX 77389	R000222818
8	39400221000	MIDKIFF FAMILY PROPERTIES LLC	20601 S HWY 349 Midland, TX 79701, BLOCK 022, LOT 1000, ACRES 665.87	1700 PRINCETON AVE Midland, TX 79701	R000007189
9	39400151000	MIDKIFF FAMILY PROPERTIES LLC	S HWY 349 Midland, TX 79701, BLOCK 015, LOT 1000, ACRES 640.00	1700 PRINCETON AVE Midland, TX 79701	R000007180
10	39400281025	CLARK MORELAND FAMILY LLC	2200 S HWY 349 Midland, TX 79705, BLOCK 028, LOT 1025, ACRES 20	2415 SEABOARD Midland, TX 79705	R000205214

BAR V RANCH CO LLC
PO BOX 445
MIDLAND TX 79702-0401

BAR V RANCH CO LLC
PO BOX 445
MIDLAND TX 79702-0401

TEXAS PACIFIC RESOURCES LLC
1700 PACIFIC AVE SUITE 2900
DALLAS TX 75201-4666

CLARK MORELAND FAMILY LLC
2415 SEABOARD
MIDLAND TX 79705-8516

CLARK MORELAND FAMILY LLC
2415 SEABOARD
MIDLAND TX 79705-8516

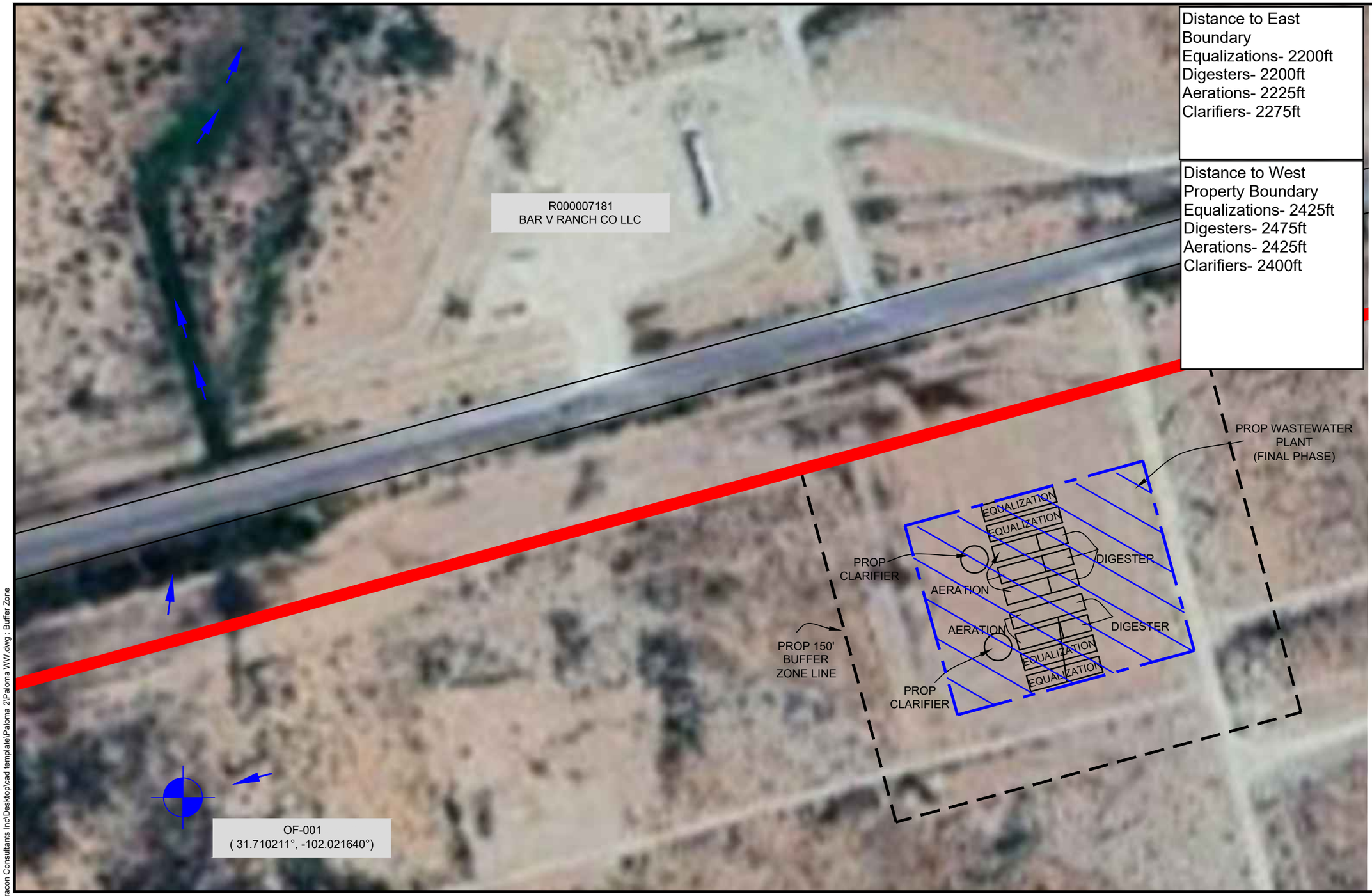
CLARK MORELAND FAMILY LLC
2415 SEABOARD
MIDLAND TX 79705-8516

ROGER C MORELAND
10305 S COUNTY RD 1210
MIDLAND TX 79706-7820

XTO HOLDINGS LLC
22777 SPRINGWOODS VILLAGE PKWY
SPRING TX 77389-1425

MIDKIFF FAMILY PROPERTIES
1700 PRINCETON AVENUE
MIDLAND TX 79701-5763

MIDKIFF FAMILY PROPERTIES
1700 PRINCETON AVENUE
MIDLAND TX 79701-5763



Distance to East Boundary
Equalizations- 2200ft
Digesters- 2200ft
Aerations- 2225ft
Clarifiers- 2275ft

Distance to West Property Boundary
Equalizations- 2425ft
Digesters- 2475ft
Aerations- 2425ft
Clarifiers- 2400ft

LEGEND

- WASTEWATER TREATMENT PLANT LOCATION
- PROPERTY BOUNDARY
- OUTFALL
- 150 FT BUFFER ZONE

Distance to North Boundary
Equalization- 200ft
Equalization- 250ft
Equalization- 550ft
Equalization- 600ft
Digester- 300ft
Digester- 350ft
Digester- 400ft
Digester- 450ft
Digester- 500ft
Aeration- 300ft
Aeration- 350ft
Aeration- 400ft
Aeration- 450ft
Aeration- 500ft
Clarifier- 300ft
Clarifier- 450ft

Distance to South Boundary
Equalization- 3600ft
Equalization- 3550ft
Equalization- 3250ft
Equalization- 3200ft
Digester- 3300ft
Digester- 3350ft
Digester- 3400ft
Digester- 3450ft
Digester- 3500ft
Aeration- 3300ft
Aeration- 3350ft
Aeration- 3400ft
Aeration- 3450ft
Aeration- 3500ft
Clarifier- 3500ft
Clarifier- 3350ft

0 100 200
APPROXIMATE SCALE: 1"=200'

REV.	DATE	BY	DESCRIPTION

Terracon
11555 CLAY ROAD, SUITE. 100 HOUSTON, TX 77043
PH. (713) 690-8989 FAX. (713) 690-8787

N

BUFFER ZONE MAP

Paloma Wastewater Services, LLC
TLP #1 Wastewater Treatment Plant
2311 FM 1787 Midland TX 79706

HOUSTON TEXAS

DESIGNED BY:	RRH
DRAWN BY:	PSB
APPVD. BY:	RDC
SCALE:	AS SHOWN
DATE:	01/11/2024
JOB NO.	92237972
ACAD NO.	Paloma WW.dwg
SHEET NO.:	1 OF 1

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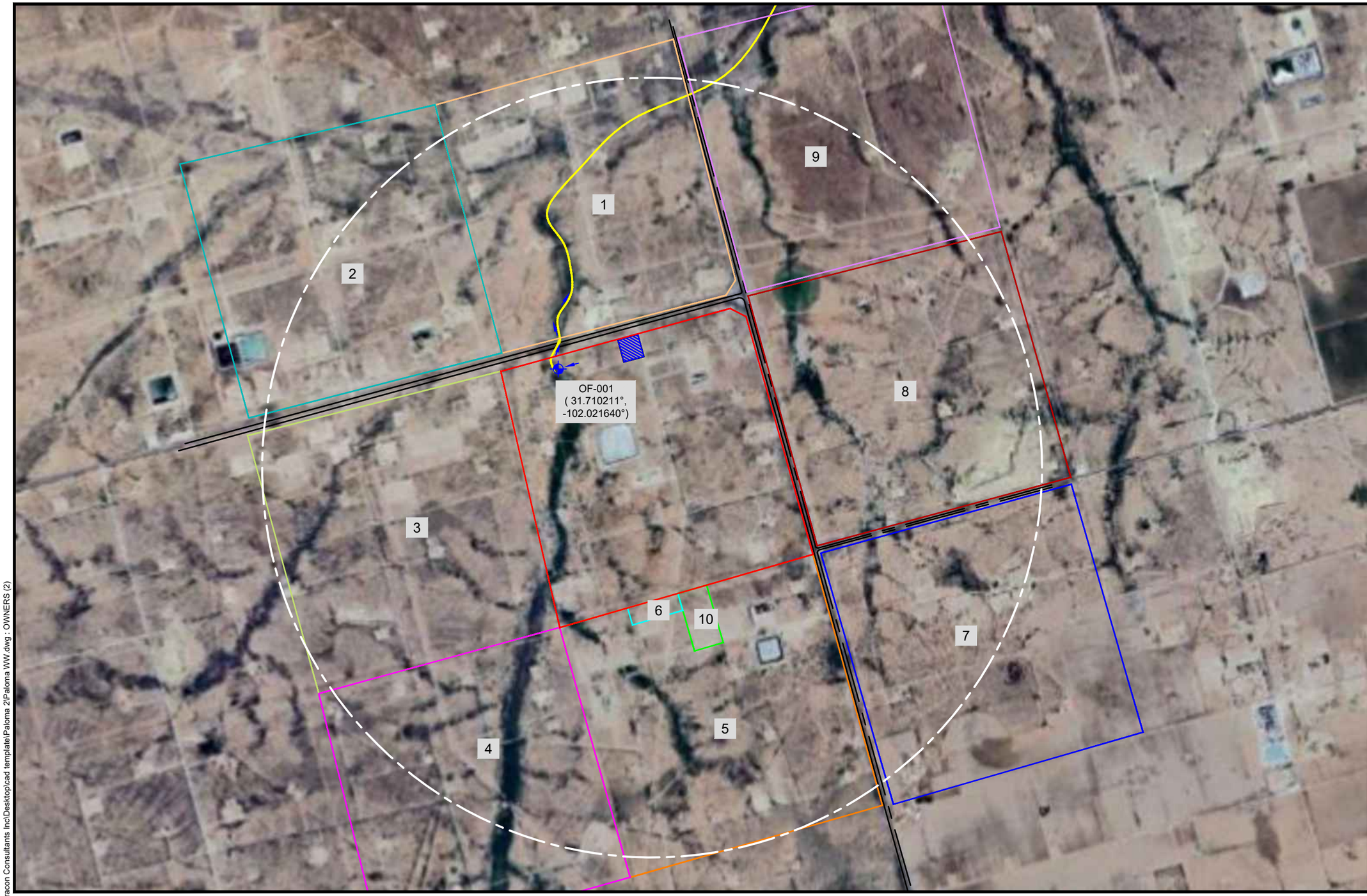

LEGEND

- WASTEWATER TREATMENT PLANT LOCATION
- PROPERTY BOUNDARY
- OUTFALL
- FLOW DIRECTION

0 750 1500

APPROXIMATE SCALE: 1"=1500'

REV.	DATE	BY	DESCRIPTION

Terracon

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N

ONE-MILE ADJACENT LAND OWNER MAP

Paloma Wastewater Services, LLC
Midland TLP 1 Wastewater Treatment Plant
Midland, Midland County, Texas

HOUSTON TEXAS

DESIGNED BY:	RRH
DRAWN BY:	PSB
APPVD. BY:	RDC
SCALE:	AS SHOWN
DATE:	05/09/2024
JOB NO.	92247379
ACAD NO.	Paloma WW.dwg
SHEET NO.:	1 OF 1

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LEGEND

- WASTEWATER TREATMENT PLANT LOCATION
- PROPERTY BOUNDARY
- OUTFALL
- PHOTOGRAPHIC DIRECTION

0 200 400

APPROXIMATE SCALE: 1"=400'

REV.	DATE	BY	DESCRIPTION

Terracon
11555 CLAY ROAD, SUITE. 100 HOUSTON, TX 77043
PH. (713) 690-8989 FAX. (713) 690-8787

PHOTOGRAPH LOCAITON MAP

Paloma Wastewater Services, LLC
Midland TLP 1 Wastewater Treatment Plant
Midland, Midland County, Texas

HOUSTON TEXAS

DESIGNED BY:	RRH
DRAWN BY:	PSB
APPVD. BY:	RDC
SCALE:	AS SHOWN
DATE:	05/17/2024
JOB NO.	92247379
ACAD NO.	Paloma WW.dwg
SHEET NO.:	1 OF 1

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