

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



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

TCEQ

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Clear Creek Reserve LLC (CN) proposes to operate the Clear Creek Reserve Wastewater Treatment Plant (RN), an activated sludge process with nitrification operated in the complete mix mode. The facility will be located at approximately 2,640 feet north northwest of the intersection of Tompkins Road and Mitchell Road, in Hempstead, Waller County, Texas 77445. This application for a new application to discharge a daily average flow of 300,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a screening facility, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

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

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

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

Clear Creek Reserve LLC (CN) propone operar la Planta de Tratamiento de Aguas Residuales de Clear Creek Reserve (RN New), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en aproximadamente 2,640 pies al norte noroeste de la interseccion de Camino Tompkins y Camino Mitchell, en Hempstead, Condado de Waller, Texas 77445. Esta solicitud es para una nueva aplicación para descargar a un flujo promedio diario de 300,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (CBOD₅), solidos totalmente suspendidos (TSS), nitrógeno amoniacal (NH₅-N), y *Escherichia coli*. Los contaminantes potenciales adicionales se incluyen en el Informe Técnico Domésticas 1.0, Seccion 7 Análisis de Contaminantes de Efluente Tratado en el paquete de solicitud de permisos.. Las aguas residuales domésticas. estará tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una pantalla de barras, balsas de aireación, clarificadores finales, digestores de lodos, y cámaras de contacto de cloro.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016680001

APPLICATION. Clear Creek Reserve LLC, 1135 Grand Central Parkway, Suite 250, Conroe, Texas 77304, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016680001 (EPA I.D. No. TX0147052) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 300,000 gallons per day. The domestic wastewater treatment facility will be located approximately 2,640 feet north-northwest of the intersection of Mitchell Road and Tomkins Road, near the city of Hempstead, in Waller County, Texas 77445. The discharge route will be from the plant site to Clear Creek; thence to Brazos River Below Navasota River. TCEQ received this application on December 6, 2024. The permit application will be available for viewing and copying at Waller County Public Library, reference desk, 2331 11th Street, Hempstead, in Waller 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=-95.983238,30.163528&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 countywide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.

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

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

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

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

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

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

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

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at 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 Clear Creek Reserve LLC at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers, Inc., at 281-373-0500.

Issuance Date: January 3, 2025

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. WQoo16680001

SOLICITUD. Clear Creek Reserve LLC, 1135 Grand Central Parkway, Oficina 250, Conroe, Tejas 77304, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016680001 (EPA I.D. No. TX0147052) 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 300,000 galones por día. La planta estará ubicada aproximadamente 2640 pies al norte-noroeste de la interseccion de la Camino Mitchell y Camino Tompkins, cerca de la Ciudad de Hempstead, en el Condado de Waller, Texas 77445. La ruta de descarga es del sitio de la planta a Arroyo Claro; de allí al río Brazos por debajo del río Navasota. La TCEQ recibió esta solicitud el 6 de deciembre de 2024. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca Publica del Condado de Waller, excritorio de referencia, 2331 Calle 11th, Hempstead, en Condado de Waller, Tejas antes de la fecha de publicación de este aviso en el periódico. La aplicación, incluidas las actualizaciones y los avisos asociados, están disponibles electrónicamente en la siguiente pagina web:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.983238,30.163528&level=18

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.

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

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

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

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

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

También se puede obtener información adicional del Clear Creek Reserve LLC a la dirección indicada arriba o llamando a Ms. Shelley Young, P.E., Water Engineers, Inc., al 281-373-0500.

Fecha de emission: 3 de enero de 2025



WATER & WASTEWATER TREATMENT CONSULTANTS

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

Overnight by UPS

December 5, 2024

Executive Director Water Quality Applications Team (MC 148) Texas Commission on Environmental Quality 12100 Park 35 Circle Austin, Texas 78753

Re: Clear Creek Reserve LLC

Application for a New TPDES Permit

Clear Creek Reserve Wastewater Treatment Plant

Waller County

Dear Sir/Ms:

Enclosed please find the original and one copy of the Application for a New Texas Pollution Discharge Elimination System Permit for the proposed Clear Creek Reserve Wastewater Treatment Plant in Waller County.

Please contact Shelley Young, P.E. at 281-373-0500 or at <u>syoung@waterengineers.com</u> if there are any questions related to the material presented in the application.

Sincerely,

WATERENGINEERS, INC.

Shelley Young, P.E.

Encl: As noted

APPLICATION FOR A NEW TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT

FOR

CLEAR CREEK RESERVE WASTEWATER TREATMENT PLANT

CLEAR CREEK RESERVE LLC 1135 GRAND CENTRAL PARKWAY, SUITE 250 CONROE, TX 77304

PREPARED BY:

WATERENGINEERS, INC.

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

DECEMBER 2024

APPLICATION FOR A NEW TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT

FOR

CLEAR CREEK RESERVE

WASTEWATER TREATMENT PLANT

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SCOMM/SS/OH P

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Clear Creek Reserve LLC

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

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

	Y	N		Y	N
Administrative Report 1.0	\boxtimes		Original USGS Map	\boxtimes	E .
Administrative Report 1.1	\boxtimes	A.	Affected Landowners Map	\boxtimes	
SPIF	\boxtimes		Landowner Disk or Labels	\boxtimes	
Core Data Form	\boxtimes		Buffer Zone Map	\boxtimes	
Public Involvement Plan Form	\boxtimes	(6)	Flow Diagram	\boxtimes	
Technical Report 1.0	\boxtimes	H	Site Drawing	\boxtimes	æ
Technical Report 1.1	\boxtimes	[5] 26	Original Photographs	\boxtimes	
Worksheet 2.0	\boxtimes		Design Calculations	\boxtimes	
Worksheet 2.1		\boxtimes	Solids Management Plan	\boxtimes	滅
Worksheet 3.0		\boxtimes	Water Balance		\boxtimes
Worksheet 3.1		\boxtimes			
Worksheet 3.2		\boxtimes			
Worksheet 3.3	đ	\boxtimes			
Worksheet 4.0	M	\boxtimes			
Worksheet 5.0		\boxtimes			
Worksheet 6.0		\boxtimes			
Worksheet 7.0		\boxtimes			

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

SCOMMISSION OF THE PROPERTY OF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 □	\$315.00 □
≥0.05 but <0.10 MGD	\$550.00 □	\$515.00 □
≥0.10 but <0.25 MGD	\$850.00 □	\$815.00 □
≥0.25 but <0.50 MGD	\$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:
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Mailed Check/Money Order Number: 1457

Check/Money Order Amount: \$1,250.00

Name Printed on Check: WaterEngineers, Inc.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes □

Section 2. Type of Application (Instructions Page 26)

a.	Che	Check the box next to the appropriate authorization type.						
		Publicly-Owned Domestic Wastewater						
	\boxtimes	Privately-Owned Domestic Wastewater						
		Conventional Wastewater Treatment						
b.	Che	ck the box nex	xt t∈	o the appropriate facility status. Inactive				

c.	Che	Check the box next to the appropriate permit type.							
	\boxtimes	☑ TPDES Permit							
	□ TLAP								
	☐ TPDES Permit with TLAP component								
		Subsurface Area Drip Dispersal System (SAD	DS)						
d.	Che	eck the box next to the appropriate application	ı typ	e					
	\boxtimes	New							
		Major Amendment with Renewal		Minor Amendment with Renewal					
		Major Amendment without Renewal		Minor Amendment without Renewal					
		Renewal without changes		Minor Modification of permit					
e.	For	amendments or modifications, describe the p	ropo	osed changes: <u>N/A</u>					
f.	For	existing permits:							
	Peri	mit Number: WQ00 <u>N/A</u>							
	EPA	I.D. (TPDES only): TX <u>N/A</u>							
	Expiration Date: N/A								
So	ctic	on 3. Facility Owner (Applicant) a	nd	Co Applicant Information					
36	cui	on 3. Facility Owner (Applicant) a (Instructions Page 26)	Hu	Co-Applicant illiorniation					
Α.	The	e owner of the facility must apply for the per	mit.						
		at is the Legal Name of the entity (applicant) a							
	Clea	ar Creek Reserve LLC							
		e legal name must be spelled exactly as filed w legal documents forming the entity.)	ith tì	he Texas Secretary of State, County, or it					
		ne applicant is currently a customer with the T		Tarrie Caracter in Contract on the Caracter and the Caracter and Carac					

You may search for your CN on the TCEQ website at <u>http://www15.tceq.texas.gov/crpub/</u>

CN: New

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

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

Title: Managing Member Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. ADMIN.03

Application Contact Information (Instructions Page 27) Section 4.

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

A. Prefix: Ms.

Last Name, First Name: Young, Shelley

Title: Engineer

Credential: P.E.

Organization Name: WaterEngineers, Inc.

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

Phone No.: 281-373-0500

E-mail Address: syoung@waterengineers.com

Check one or both:

 \boxtimes **Administrative Contact** X **Technical Contact**

B. Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

E-mail Address: Click to enter text.

Check one or both:

Administrative Contact **Technical Contact**

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr.

Last Name, First Name: Wren, Chris

Title: Managing Member

Credential: Click to enter text.

Organization Name: Clear Creek Reserve LLC

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

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

B. Prefix: Mr. Last Name, First Name: Heinrich, Brett

Title: Vice President of Acquisitions Credential: Click to enter text.

Organization Name: Treaty Oak Development, LLC

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

Phone No.: <u>936-283-7051</u> E-mail Address: <u>brett@treatoakdev.com</u>

Section 6. Billing Contact Information (Instructions Page 27)

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

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

Title: Managing Member Credential: Click to enter text.

Organization Name: Clear Creek Reserve LLC

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

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

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

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

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

Title: Managing Member Credential: Click to enter text.

Organization Name: Clear Creek Reserve LLC

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

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

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

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

Title: Engineer Credential: P.E.

Organization Name: WaterEngineers, Inc.

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

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

	Pa	скаде			
	Inc	dicate b	y a check m	ark t	he preferred method for receiving the first notice and instructions
	\boxtimes	E-mai	il Address		
		Fax			
		Regul	ar Mail		
C.	Co	ntact p	ermit to be	liste	d in the Notices
	Pre	efix: <u>Ms</u> .	<u>.</u>		Last Name, First Name: Young, Shelley
	Tit	le: <u>Engi</u>	neer		Credential: <u>P.E.</u>
	Or	ganizat	ion Name: <u>W</u>	/aterl	Engineers, Inc.
	Ma	iling Ac	dress: <u>1723</u> 0	o Huf	fmeister Rd, Ste A City, State, Zip Code: Cypress, TX 77429
	Ph	one No.	281-373-05	00	E-mail Address: syoung@waterengineers.com
D.	Pu	blic Vie	wing Inforr	natio	on .
			ity or outfall ist be provid		cated in more than one county, a public viewing place for each
	Pu	blic bui	lding name:	Walle	er County Library
	Lo	cation w	vithin the bu	ıildin	g: Reference Desk
	Ph	ysical A	ddress of Bu	uildir	ng: 2331 11th Street
	Cit	y: <u>Hem</u> ı	ostead		County: <u>Waller</u>
	Co	ntact (L	ast Name, Fi	irst N	lame): <u>Librarian</u>
	Ph	one No.	979-826-76	<u>58</u> Ex	t.: Click to enter text.
E.	Bil	ingual I	Notice Requ	irem	ents
					ed for new, major amendment, minor amendment or minor applications.
	be	needed		nstrı	tion is only used to determine if alternative language notices will actions on publishing the alternative language notices will be in
	ob				L coordinator at the nearest elementary and middle schools and nation to determine whether an alternative language notices are
	1.				program required by the Texas Education Code at the elementary to the facility or proposed facility?
			Yes		No
		If no , p	ublication o	f an	alternative language notice is not required; skip to Section 9
	2.				tend either the elementary school or the middle school enrolled ir ogram at that school?
		\boxtimes	Yes		No

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

	3.	Do the locatio	students at n?	these	e schools a	attend	a bilingual	educa	tion pro	gram a	t another
			Yes	\boxtimes	No						
	4.		the school b							gram l	but the school has
			Yes	\boxtimes	No						
	5.		answer is yes ed. Which lar								itive language are
F.	Pla	in Lang	guage Summ	ary T	Геmplate						
	Co	mplete	the Plain Lar	ıguag	ge Summa	ry (TCI	EQ Form 20)972) ;	and inclu	de as a	an attachment.
	At	tachme	nt: <u>ADMIN.o</u>	4							
G.	Pu	blic Inv	olvement Pl	lan Fo	orm						
						ı Form	(TCEQ For	m 209)60) for e	ach ap	plication for a
			it or major a								
	At	tachme	nt: <u>ADMIN.o</u>	5							
									_		
Se	ecti	on 9.	Regulat Page 29		Entity a	nd Pe	rmitted	Site	lnform	ation	(Instructions
A.		he site s site. R		regul	ated by TO	CEQ, pı	ovide the	Regula	ited Entit	y Num	ber (RN) issued to
			TCEQ's Cen currently reg				/www15.to	ceq.tex	as.gov/c	rpub/	to determine if
B.	Na	me of p	roject or site	e (the	name kno	own by	the comm	unity	where lo	cated):	
	Cle	ar Creek	Reserve WW	TP							
C.	Ow	ner of t	treatment fac	cility:	Clear Cree	k Rese	rve LLC				
	Ow	nership	of Facility:		Public	\boxtimes	Private		Both		Federal
D.	Ow	ner of l	and where to	reatm	ient facilit	y is or	will be:				
	Pre	fix: Clic	ck to enter te	ext.	Last	Name	, First Nam	ne: Clic	ck to ente	er text.	
	Tit	le: Click	to enter tex	t.	Cre	dential	: Click to e	nter to	ext.		
	Org	ganizati	on Name: <u>Cl</u>	ear Cı	reek Reserv	e LLC					
	Ma	iling Ad	ldress: <u>1135 (</u>	rand	Central Pk	wy., Su	ite 250City	, State	, Zip Cod	e: <u>Con</u>	roe, TX 77304
	Pho	one No.:	936-283-123	6	E-n	nail Ad	dress: <u>cwre</u>	en@tre	atyoakdev	.com	
			owner is not or deed rec						or co-ap	plican	t, attach a lease
		Attach	ment: Click t	to ent	ter text.						

B.

C.

D.

E.	Owner of effluent disposal site:	
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
- 54	If the landowner is not the same agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
F.	Owner sewage sludge disposal si property owned or controlled by	te (if authorization is requested for sludge disposal on the applicant)::
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
Se	ction 10. TPDES Dischar	ge Information (Instructions Page 31)
		ge Information (Instructions Page 31) ity location in the existing permit accurate?
	Is the wastewater treatment facil ☐ Yes ☐ No If no, or a new permit application	ity location in the existing permit accurate? on, please give an accurate description:
	Is the wastewater treatment facil ☐ Yes ☐ No If no, or a new permit application	ity location in the existing permit accurate?
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 2,640 feet north no Road in Waller County	ity location in the existing permit accurate? on, please give an accurate description:
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 2,640 feet north no Road in Waller County	ity location in the existing permit accurate? on, please give an accurate description: rthwest of the intersection of Tompkins Road and Mitchell
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 2,640 feet north no Road in Waller County Are the point(s) of discharge and Yes No If no, or a new or amendment point of discharge and the discharge and the discharge 307:	ity location in the existing permit accurate? on, please give an accurate description: rthwest of the intersection of Tompkins Road and Mitchell the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 2,640 feet north no Road in Waller County Are the point(s) of discharge and Yes No If no, or a new or amendment point of discharge and the discharge and the discharge 307:	ity location in the existing permit accurate? on, please give an accurate description: rthwest of the intersection of Tompkins Road and Mitchell the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 thence to the Brazos River Below Navasota River in Segment
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 2,640 feet north no Road in Waller County Are the point(s) of discharge and Yes No If no, or a new or amendment point of discharge and the discharge and the discharge TAC Chapter 307: From the plant site to Clear Creek;	ity location in the existing permit accurate? on, please give an accurate description: rthwest of the intersection of Tompkins Road and Mitchell the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 thence to the Brazos River Below Navasota River in Segment
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 2,640 feet north no Road in Waller County Are the point(s) of discharge and Yes No If no, or a new or amendment point of discharge and the discharge and the discharge and the plant site to Clear Creek; No. 1202 of the Brazos River Basin	ity location in the existing permit accurate? on, please give an accurate description: rthwest of the intersection of Tompkins Road and Mitchell the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 thence to the Brazos River Below Navasota River in Segment
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 2,640 feet north no Road in Waller County Are the point(s) of discharge and Yes No If no, or a new or amendment point of discharge and the discharge and the discharge and the point of discharge and the discharge and the permit of the plant site to Clear Creek; No. 1202 of the Brazos River Basin City nearest the outfall(s): Hemps County in which the outfalls(s) is	ity location in the existing permit accurate? on, please give an accurate description: rthwest of the intersection of Tompkins Road and Mitchell the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 thence to the Brazos River Below Navasota River in Segment etead c/are located: Waller discharge to a city, county, or state highway right-of-way, or

	If yes , indicate by a check mark if:
	\square Authorization granted \square Authorization pending
	For new and amendment applications, provide copies of letters that show proof of contact and the approval letter upon receipt.
	Attachment: Click to enter text.
D.	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.
Se	ection 11. TLAP Disposal Information (Instructions Page 32)
Α.	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 to enter text.
В.	City nearest the disposal site: Click to enter text.
C.	County in which the disposal site is located: Click to enter text.
D.	For TLAPs , describe the routing of effluent from the treatment facility to the disposal site:
	Click to enter text.
E.	For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.
Se	ction 12. Miscellaneous Information (Instructions Page 32)
	Is the facility located on or does the treated effluent cross American Indian Land?
	□ Yes ⊠ No
В.	If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?
	□ Yes □ No ⊠ Not Applicable
	If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.
	Click to enter text.

C.	bid any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?								
		Yes	\boxtimes	No					
				on formerly employed by the TCEQ who represented your company and regarding the application: Click to enter text.					
D.	Do you	ı owe any	/ fees	to the TCEQ?					
		Yes	\boxtimes	No					
	If yes , provide the following information:								
	Account number: Click to enter text.								
	Am	ount pas	t due	e: Click to enter text.					
E.	Do you	owe any	pen	alties to the TCEQ?					
		Yes		No					
	If yes,	please pi	rovid	e the following information:					
	Enf	orcemen	t ord	er number: Click to enter text.					
	Am	ount pas	t due	:: Click to enter text.					

Section 13. Attachments (Instructions Page 33)

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

- Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- ☐ Original full-size USGS Topographic Map with the following information:
 - Applicant's property boundary
 - Treatment facility boundary
 - Labeled point of discharge for each discharge point (TPDES only)
 - Highlighted discharge route for each discharge point (TPDES only)
 - Onsite sewage sludge disposal site (if applicable)
 - Effluent disposal site boundaries (TLAP only)
 - New and future construction (if applicable)
 - 1 mile radius information
 - 3 miles downstream information (TPDES only)
 - All ponds.
- ☑ Attachment 1 for Individuals as co-applicants
- Other Attachments. Please specify: <u>Admin.o2-Proof of Application Fee, Admin.o3-Core Data</u>
 Form, Admin.o4-Plain Language Summary, Admin.o5-Public Involvement Plant, Admin.o6-Downstream
 and Adjacent Landowner Map and List, Admin.o7-Photographs, Admin.o8-Buffer Zone Map, Admin.o9SPIF

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: New

Applicant: Clear Creek Reserve, LLC

Certification:

County, Texas

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): Chris Wren	
Signatory title: Managing Member Signature:	ate: 11/19/24
(Use blue ink)	4.0
Subscribed and Sworn to before me by the said Chrison this day of November day of November day of Apr	5 Wren 20 24 31 , 20 26.
Stephan Stype Notary Public	[SEAL]
montcomery	OTEDHANIE STIPSKY

My Notary ID # 130639399 Expires April 27, 2028

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

A.

B.

C.

D.

E.

Section 1. Affected Landowner Information (Instructions Page 36)

Indicate by a check mark that the landowners map or drawing, with scale, includes t following information, as applicable:	he				
□ 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 bo of the landowners located within the buffer zone	undaries				
The property boundaries of all landowners surrounding the applicant's propert the application is a major amendment for a lignite mine, the map must include property boundaries of all landowners adjacent to the new facility (ponds).)	•				
The point(s) of discharge and highlighted discharge route(s) clearly shown for downstream	one mile				
The property boundaries of the landowners located on both sides of the discharge for one full stream mile downstream of the point of discharge	rge route				
The property boundaries of the landowners along the watercourse for a one-hal radius from the point of discharge if the point of discharge is into a lake, bay, or affected by tides	f mile estuary,				
The boundaries of the effluent disposal site (for example, irrigation area or subdrainfield site) and all evaporation/holding ponds within the applicant's proper					
☐ The property boundaries of all landowners surrounding the effluent disposal si	te				
for beneficial use) and the property boundaries of landowners surrounding the	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 applicant's property boundaries where the sewage sludge disposal site (for example surface disposal site or sludge monofill) is located					
☑ Indicate by a check mark that a separate list with the landowners' names and maddresses cross-referenced to the landowner's map has been provided.	ıailing				
Indicate by a check mark in which format the landowners list is submitted:					
□ Four sets of labels					
Provide the source of the landowners' names and mailing addresses: <u>Waller County A District</u>	ppraisal				
As required by <i>Texas Water Code § 5.115</i> , is any permanent school fund land affect this application?	ted by				
□ Yes ⊠ No					

	If yes , provide the location and foreseeable impacts and effects this application has on the land(s):							
	Clic	k to enter text.						
Se	ectio	n 2. Original Photographs (Instructions Page 38)						
		original ground level photographs. Indicate with checkmarks that the following tion is provided.						
	\boxtimes	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						
Se	ectio	n 3. Buffer Zone Map (Instructions Page 38)						
A.	Buffer zone map. Provide a buffer zone map on 8.5×11 -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.						
В.		er zone compliance method. Indicate how the buffer zone requirements will be met. k all that apply.						
	\boxtimes	Ownership						
		Restrictive easement						
		Nuisance odor control						
		Variance						
C.		itable site characteristics. Does the facility comply with the requirements regarding itable site characteristic found in 30 TAC § 309.13(a) through (d)?						
	\boxtimes	Yes □ No						

B.

DOMESTIC WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Admin.09

COMMISSION OF THE PROPERTY OF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): <u>0.100</u>

2-Hr Peak Flow (MGD): <u>0.400</u>

Estimated construction start date: <u>Q4 2025</u> Estimated waste disposal start date: <u>Q4 2026</u>

B. Interim II Phase

Design Flow (MGD): 0.200

2-Hr Peak Flow (MGD): o.8oo

Estimated construction start date: Q1 2028

Estimated waste disposal start date: Q4 2028

C. Final Phase

Design Flow (MGD): 0.300

2-Hr Peak Flow (MGD): 1.200

Estimated construction start date: Q1 2032

Estimated waste disposal start date: Q1 2033

D. Current Operating Phase

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

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

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

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Ph I/Ph II/Ph III	2/4/6	32 ft L x 12 ft W x 10.5 ft SWD (each)
Clarifiers Ph I/Ph II/Ph III	1/2/3	22 ft diam x 10.5 ft SWD (each)
Cl2 Contact Ph I/Ph II/Ph III	1/2/3	8 ft L x 12 ft W x 8.5 ft SWD (each)
Digestion Ph I/Ph II/Ph III	2/4/6	20 ft L x 12 ft W x 10.5 ft SWD (each)

C. Process Flow Diagram

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

Attachment: TECH.02

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

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

Latitude: 30.163519

• Longitude: -95.983706

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

Latitude: N/ALongitude: N/A

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

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

Attachment: TECH.03

Provide the name and a des	cription of the area	served by the treatmen	t facility.
The Clear Creek Reserve WW. community in Waller County.		sed Clear Creek Reserve	residential
Collection System Informati each uniquely owned collection systems.	ction system, existin	g and new, served by th	nis facility, including
examples. Collection System Informatio	n		
Collection System Name	Owner Name	Owner Type	Population Served
Clear Creek Reserve Collection System	Clear Creek Reserve LLC	Privately Owned	Ultimately ~3,500
		Choose an item.	
		Choose an item.	
		Choose an item.	
If yes, does the existing per years of being authorized by □ Yes □ No If yes, provide a detailed dis Failure to provide sufficient recommending denial of the	y the TCEQ? scussion regarding t at justification may	he continued need for t result in the Executive	the unbuilt phase.
Click to enter text.		,	
Section 5. Closure P	Plans (Instructio	ons Page 45)	
Have any treatment units be out of service in the next fiv ☐ Yes ☒ No	en taken out of serv		l any units be taken

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

C. Other actions required by the current permit

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

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

E.

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

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

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.			

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

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

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

Yes	\boxtimes	No

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

Click to enter text.			

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

Is the facility in operation?

□ Yes ⊠ No

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

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

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

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					
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 50)

Facility Operator Name: Not yet chosen

Facility Operator's License Classification and Level: Corhigher

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

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

 \square Design flow>= 1 MGD

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

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	Off-site Third-Party Handler or Preparer	Not Applicable		Domestic Septage: pH	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: Mt. Houston Road MUD WWTP

TCEQ permit or registration number: WQoo11154001

County where disposal site is located: Harris

E. Transportation method

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

Name of the hauler: Magna-Flow Environmental

Hauler registration number: 21484

Sludge is transported as a:

Liquid ⊠ semi-liquid □ semi-solid □ solid □

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

A.

Benefic	cial us	se au	thorization
Does th			permit include authorization for land application of sewage sludge for
	Yes	\boxtimes	No
If yes , a benefic			questing to continue this authorization to land apply sewage sludge for
	Yes		No
-	Form		pleted Application for Permit for Beneficial Land Use of Sewage Sludge 10451) attached to this permit application (see the instructions for
	Yes		No

B.	Sludge	e processing authorization										
		the existing permit include authorization for se or disposal options?	or an	y of the	follow	ving sludge processing,						
	Slu	dge Composting		Yes	\boxtimes	No						
	Ma	rketing and Distribution of sludge		Yes		No						
	Slu	dge Surface Disposal or Sludge Monofill		Yes	\boxtimes	No						
	Temporary storage in sludge lagoons \square Yes \boxtimes 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											
		11. Sewage Sludge Lagoons (Ins	tru	ctions	Page	2 53)						
		facility include sewage sludge lagoons?										
	□ Y€			1. 0		10						
If y	es, con	nplete the remainder of this section. If no,	proc	eed to Se	ection	. 12.						
A.	Locati	on information										
		llowing maps are required to be submitted e the Attachment Number.	as p	art of th	e app	lication. For each map,						
	•	Original General Highway (County) Map:										
		Attachment: Click to enter text.										
	•	USDA Natural Resources Conservation Serv	vice S	Soil Map								
		Attachment: Click to enter text.										
	•	Federal Emergency Management Map:										
		Attachment: Click to enter text.										
	•	Site map:										
	Discus	Attachment : <u>Click to enter text.</u> s in a description if any of the following ex	ziet w	zithin the	പിച്ച	on area Chack all that						
	apply.	is in a description if any of the following ex	MSC M	VICILIII CII	ciago	on area. Check an that						
		Overlap a designated 100-year frequency	flood	d plain		ε						
		Soils with flooding classification										
		Overlap an unstable area										
		Wetlands										
		Located less than 60 meters from a fault										
		None of the above										
	Att	achment: Click to enter text.										

Click to enter text.
Temporary storage information
Provide the results for the pollutant screening of sludge lagoons. These results are in
addition to pollutant results in Section 7 of Technical Report 1.0.
Nitrate Nitrogen, mg/kg: Click to enter text.
Total Kjeldahl Nitrogen, mg/kg: <u>Click to enter text.</u>
Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.
Phosphorus, mg/kg: Click to enter text.
Potassium, mg/kg: Click to enter text.
pH, standard units: Click to enter text.
Ammonia Nitrogen mg/kg: Click to enter text.
Arsenic: Click to enter text.
Cadmium: Click to enter text.
Chromium: Click to enter text.
Copper: Click to enter text.
Lead: Click to enter text.
Mercury: Click to enter text.
Molybdenum: Click to enter text.
Nickel: Click to enter text.
Selenium: Click to enter text.
Zinc: Click to enter text.
Total PCBs: Click to enter text.
Provide the following information:
Volume and frequency of sludge to the lagoon(s): Click to enter text.
Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.
Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

C.

Does the active/	proposed	sludge	lagoon(s)	have a	liner wi	ith a 1	maximum l	nydrai	ulic
conductivity of	lx10 ⁻⁷ cm/	'sec?							

□ Yes □ No

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

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

Section 12. Authorizations/Compliance/Enforcement (Instructions

E.

Page 55)

A. Additional authorizations
Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?
□ Yes ⊠ No
If yes, provide the TCEQ authorization number and description of the authorization:
Click to enter text.
B. Permittee enforcement status
Is the permittee currently under enforcement for this facility?
□ Yes ⊠ No
Is the permittee required to meet an implementation schedule for compliance or enforcement?
□ Yes ⊠ No
If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:
Click to enter text.
Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

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

Yes 🖾 No

B. Remediation activity wastewater

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

🛘 Yes 🔯 No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

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

- The laboratory is an in-house laboratory and is:
 - o periodically inspected by the TCEQ; or
 - o located in another state and is accredited or inspected by that state; or
 - o performing work for another company with a unit located in the same site; or
 - 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 N	Jame: 1	N/A -	New	Permit
	1 CLILCI A	/	11011	T CT TITLE

Title: Click to enter text.

Signature:	
Date:	

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

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

Clear Creek Reserve, LLC will provide wastewater utility services to the proposed Clear Creek Reserve single family home community. There are currently 500 connections proposed. Clear Creek Reserve, LLC is currently in negotiations to obtain additional acreage in the area, which if obtained and developed, would also be served by this facility. There are no other facilities in the area that could serve the proposed development. See Attachment TECH.06 – Development Schedule.

B. Regionalization of facilities

For additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> Treatment¹.

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. Pr	roceed to Item	ı 2 Utility C	CN
areas.				

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

Yes	\boxtimes	No	Not Applicable

If yes, within the city limits of: <u>Click to enter text.</u>

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. Utility CCN areas

Is any portion of the proposed service area located inside another utility's CCN area? \Box Yes \boxtimes No

https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

If ves, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion. Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

Yes X

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: N/A

Section 2. Proposed Organic Loading (Instructions Page 59)

Is	this	facility	in	operation?

Yes 🖾 No

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

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

A. Current organic loading

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

Average Influent Organic Strength or BOD₅ Concentration in mg/l: Click to enter text.

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

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

Click to enter text.	
I Click to enter text	
Chick to chitch text.	
I'	
I I	
I .	
I .	

B. Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision	0.100 / 0.200 / 0.300	300 / 300 / 300
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	0.100 / 0.200 / 0.300	
AVERAGE BOD₅ from all sources		300 / 300 / 300

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

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

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

	Provide the source(s) used to determine 100-year frequency flood plain.				
	FEMA Flood Map 48473C0075E				
	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: <u>Click to enter text.</u>				
	If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.				
B.	Wind rose				
	Attach a wind rose: <u>Included on Attachment TECH.o3</u>				
Se	ction 6. Permit Authorization for Sewage Sludge Disposal				
	(Instructions Page 60)				
A.	Beneficial use authorization				
	Are you requesting to include authorization to land apply sewage sludge for beneficial u on property located adjacent to the wastewater treatment facility under the wastewater permit?	iS			
	□ Yes ⊠ No				
	If yes, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451): Click to enter text.				
В.	Sludge processing authorization				
	Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:				
	☐ Sludge Composting				
	☐ Marketing and Distribution of sludge				
	☐ Sludge Surface Disposal or Sludge Monofill				
	If any of the above, sludge options are selected, attach the completed Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056): Click to enter text.				
Se	ction 7. Sewage Sludge Solids Management Plan (Instructions Page 61)	9			

Attach a solids management plan to the application.

Attachment: TECH.04

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

Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1.	Domestic Drinking	Water Supply	(Instructions	Page 64)
beetion ii	Domestic Dimming	, water bapping	(III) ti actions	I usc o I

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

Section 3. Classified Segments (Instructions Page 64) Is the discharge directly into (or within 300 feet of) a classified segment? Yes ⊠ No **If yes**, this Worksheet is complete. **If no**, complete Sections 4 and 5 of this Worksheet. **Description of Immediate Receiving Waters (Instructions** Section 4. Page 65) Name of the immediate receiving waters: Clear Creek A. Receiving water type Identify the appropriate description of the receiving waters. \boxtimes Stream Freshwater Swamp or Marsh Lake or Pond Surface area, in acres: Click to enter text. Average depth of the entire water body, in feet: Click to enter text. Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text. Man-made Channel or Ditch Open Bay Tidal Stream, Bayou, or Marsh 11 Other, specify: Click to enter text. **B.** Flow characteristics If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area upstream of the discharge. For new discharges, characterize the area downstream of the discharge (check one). \boxtimes 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 \boxtimes Personal observation Other, specify: Click to enter text.

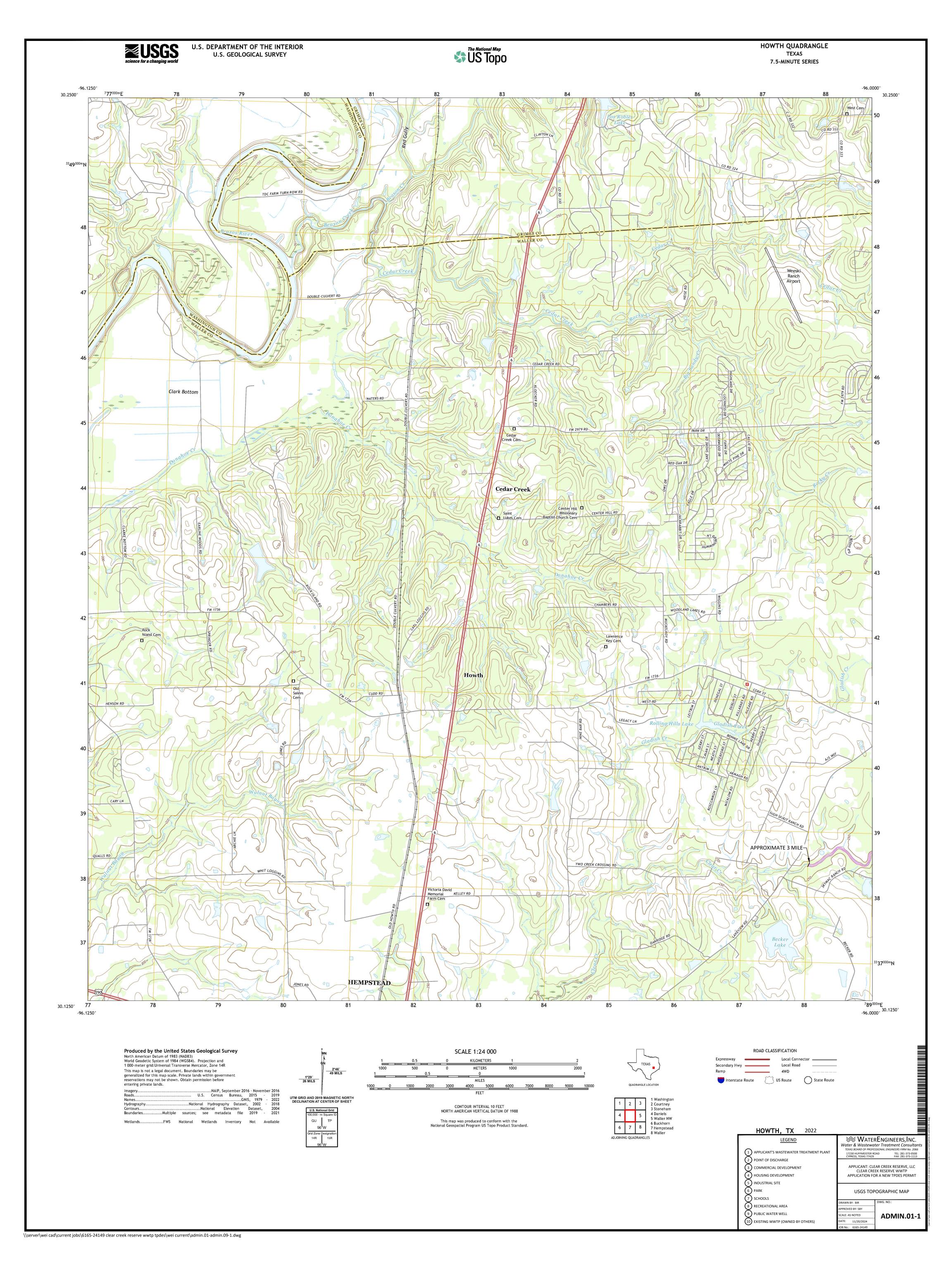
	List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.					
	Click	to enter text.				
_						
D.		stream characteristics				
		receiving water characteris rge (e.g., natural or man-ma		vithin three miles downstream of the ads, reservoirs, etc.)?		
		Yes ⊠ No				
	If yes,	discuss how.				
	Click 1	o enter text.				
E.	Norma	ıl dry weather characterist	ics			
	Provid	e general observations of th	e water body	during normal dry weather conditions.		
	Flow is intermittent during normal dry weather conditions.					
	Date a	nd time of observation: 9/17	/2024 @ 10:	oo am		
			17	runoff during observations?		
		Yes ⊠ No				
Se	ection		eristics of	the Waterbody (Instructions		
		Page 66)				
A.	Upstre	am influences				
		mmediate receiving water u iced by any of the following		he discharge or proposed discharge site nat apply.		
		Oil field activities		Urban runoff		
		Upstream discharges	\boxtimes	Agricultural runoff		
		Septic tanks		Other(s), specify: Click to enter text.		

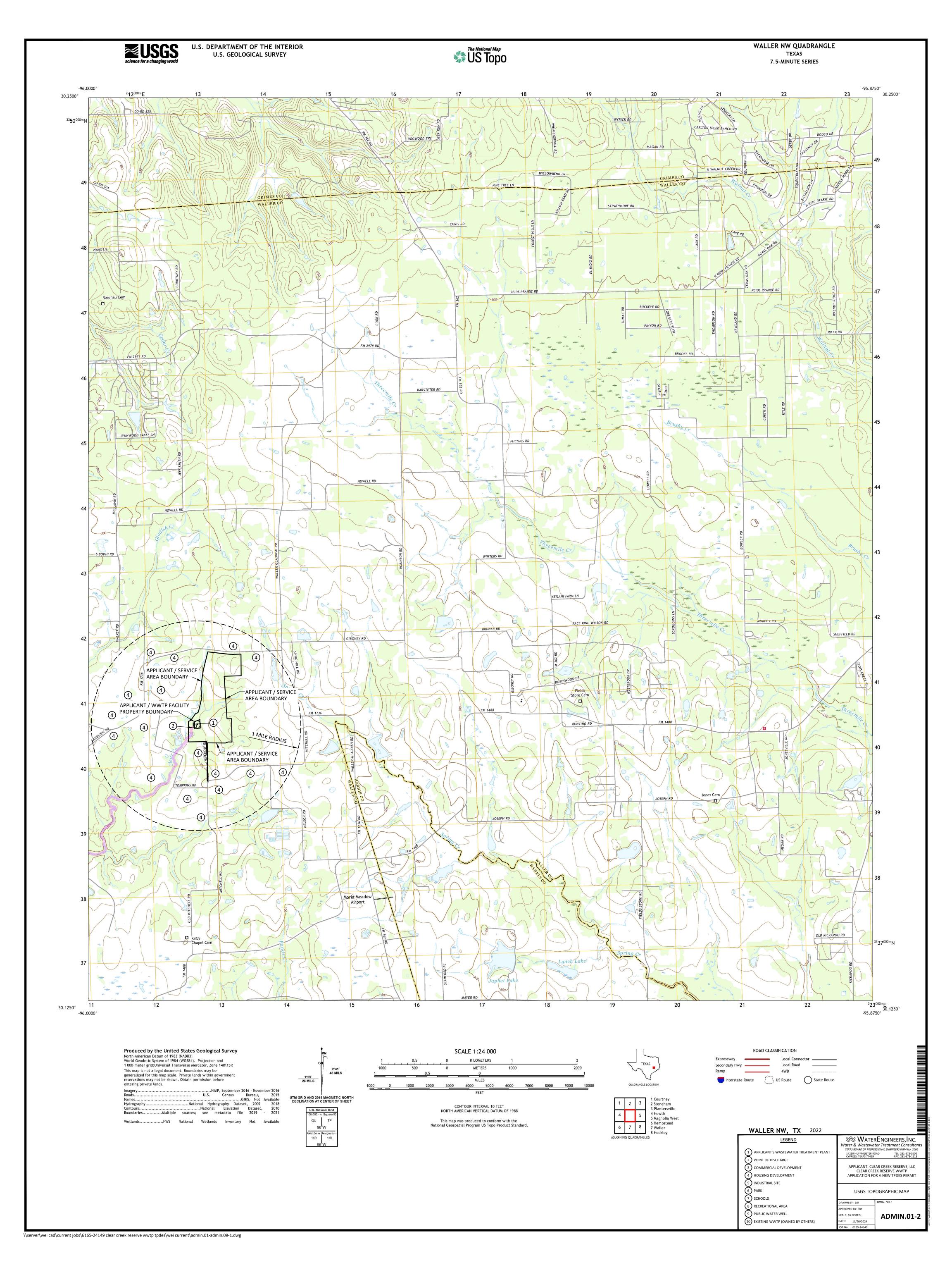
C. Downstream perennial confluences

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	\boxtimes	Other(s), specify: <u>unknown</u>	
C.	Waterb	oody aesthetics			
	Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.				
	☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; w clarity exceptional				
		Natural Area: trees and/or native v fields, pastures, dwellings); water		ation; some development evident (from ty discolored	
		Common Setting: not offensive; de or turbid	velo	ped but uncluttered; water may be colored	
		Offensive: stream does not enhance dumping areas; water discolored	e aes	thetics; cluttered; highly developed;	

ATTACHMENT ADMIN.01 USGS Topographic Map

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





ATTACHMENT ADMIN.02

Proof of Payment

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

ATTACHMENT ADMIN.03

Core Data Form

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



TCEQ Core Data Form

TCEQ Use Only	

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175. SECTION I: General Information												
1. Reason for Submission (If other is checked please describe in space provided.)												
New Pe	ermit, Regi	stration or Author	ization (Core	Data Form	should b	e submi	itted wi	th the p	rogram applicatio	on.)		
Renewa	al (Core L	Pata Form should	be submitted	with the rea	newal fo	rm) [Ot	her				
2. Customer Reference Number (if issued) Follow this link to search 3. Regulated Entity Reference Number							r (if issued)					
CN for CN or RN numbers in Central Registry**												
SECTION II: Customer Information												
4. General (Customer	Information	5. Effective	e Date for C	ustome	r Inforr	nation	Update	es (mm/dd/yyyy)			
									f Public Accounts			
			-	•			-			ırrent and	d active with the	
Texas Sec	cretary o	f State (SOS)	or Texas (Comptroll	er of F	Public	Acco	unts (CPA).			
6. Custome	r Legal Na	me (If an individua	al, print last nan	ne first: eg: D	oe, John)		<u>lf r</u>	new Cu	stomer, enter prev	ious Custom	ner below:	
Clear Cre	Clear Creek Reserve LLC											
7. TX SOS/0	PA Filing	Number	8. TX State	Tax ID (11 d	igits)		9.	Federa	I Tax ID (9 digits)	10. DUN	10. DUNS Number (if applicable)	
08056729	909		3209645	1516								
11. Type of Customer:					☐ Individual			Partnership: ☐ General ☐ Limited				
Government:				er [Sole Proprietorship				Other: limited liability company			
12. Number of Employees ☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher ☐ Yes ☐ No						ated?						
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 □ Occupational Licensee □ Responsible Party □ Voluntary Cleanup Applicant □ Other:												
1135 Grand Central Parkway, Suite 250												
15. Mailing Address:												
City Conroe				State	State TX			7730)4	ZIP + 4		
16. Country Mailing Information (if outside USA) 17. E-Mail Address (if applicable)												
cwren@treatyoakdev.com												
18. Telephone Number				19. Exten	19. Extension or Code			20. Fax Number (if applicable)				
(936) 283-1236								() -				
SECTION	III: Re	egulated En	tity Info	rmation								
											a permit application)	
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 Agency 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.)												

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Clear Creek Reserve Wastewater Treatment Plant

23. Street Address of	No address has been assigned											
the Regulated Entity:												
(No PO Boxes)	City Hempstea		ad St	State T2			ZIP 7744		45	ZIP + 4		
24. County	Waller	-										
Enter Physical Location Description if no street address is provided.												
25. Description to Physical Location:	Approximately 2,640 feet north northwest of the intersection of Tomkins Road and Mitchell Road in Waller County											
26. Nearest City								State			Near	est ZIP Code
Hempstead								TX		77445		
27. Latitude (N) In Decin	nal:	30.163528		3			ngitude	(W) Ir	In Decimal: 9		95.983283	
Degrees	Minutes		Seconds			Degrees			Minutes			Seconds
30	(4	48.70			-95			58		59.82	
29. Primary SIC Code (4 di	gits) 30. Secondary SIC Code (4 digits)				31. P (5 or 6		NAICS	Code		. Secondary NAICS Code or 6 digits)		
6552			2372									
33. What is the Primary B	usiness of t	his entity?	(Do not repea	at the SIC or	NAICS (description	on.)		l .			
Developing land												
				1135 G	rand C	entral	Parkwa	y ,Suite	250			
34. Mailing												
Address:	City	City Conroe		State -		x	ZIP		77304		ZIP + 4	
35. E-Mail Address:	cwren@treatyoakdev.com											
35. E-Mail Address: cwren@treatyoakdev.com 36. Telephone Number 37. Extension or Code 38. Fax Number (if applicable)												
Jo. Telepho	ile Mullibei		37.	. Extensio	n or C	ode		3	8. Fax Nur	nber ((if applica	ble)
(936) 2			37.	. Extensio	n or C	ode		3	8. Fax Nur (nber ()	(if applica -	ble)
(936) 26 39. TCEQ Programs and ID N	33-1236 lumbers Ch	eck all Program	s and write i				numbers		()	•	
(936)2	33-1236 lumbers Ch	eck all Programadditional guidar	s and write ince.		ts/regis				(affected by) y the up	pdates sub	
(936) 26 39. TCEQ Programs and ID Norm. See the Core Data Form ins	33-1236 Numbers Charactions for a	eck all Program additional guidar	s and write ince.	in the permi	ts/regis			that will be	(affected by) y the up	pdates sub	mitted on this
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39. TCEQ Programs and ID Norm. See the Core Data Form ins Dam Safety Municipal Solid Waste	33-1236 Numbers Characteristics Districts New Sou	idditional guidar	s and write ince. Edwa OSS	in the permi ards Aquifer F V Air	ts/regis	tration	Emissio Petroleu Tires	that will be ns Invento im Storage	(e affected by	y the up	pdates substitution of the control o	mitted on this
(936) 28 39. TCEQ Programs and ID Note form. See the Core Data Form ins Dam Safety Municipal Solid Waste Sludge Voluntary Cleanup	33-1236 Numbers Characteristics Districts New Sou Storm Wa	idditional guidar	s and write ince. Edwa OSS	in the permi ards Aquifer F	ts/regis	tration	Emissio	that will be ns Invento im Storage	(e affected by	y the up	pdates substitution of the control o	mitted on this
(936) 20 39. TCEQ Programs and ID Norm. See the Core Data Form ins Dam Safety Municipal Solid Waste Sludge Voluntary Cleanup	33-1236 Numbers Chartructions for a Districts New Sou Storm Water Waste W	rce Review Air	s and write ince. □ Edwa □ OSS □ Title □ Wast	in the permi ards Aquifer F V Air	ts/regis	tration	Emissio Petroleu Tires	that will be ns Invento im Storage	(e affected by	y the up	pdates substitution of the control o	mitted on this
(936) 28 39. TCEQ Programs and ID Note form. See the Core Data Form ins Dam Safety Municipal Solid Waste Sludge Voluntary Cleanup	33-1236 Numbers Chartructions for a Districts New Sou Storm Water Waste Williams	rce Review Air	s and write ince. □ Edwa □ OSS □ Title □ Wast	in the permi ards Aquifer F V Air	ts/regis	tration	Emissio Petroleu Tires	that will be ns Invento im Storage	(e affected by	y the up	pdates substitution of the control o	mitted on this
(936) 20 39. TCEQ Programs and ID Norm. See the Core Data Form ins Dam Safety Municipal Solid Waste Sludge Voluntary Cleanup	B3-1236 Numbers Chartructions for a Districts New Sou Storm Wasse W New Arer Inf	rce Review Air	s and write ince. □ Edwa □ OSS □ Title □ Wast	in the permi ards Aquifer F V Air	ts/regis	tration	Petroleu Tires Water R	that will be ns Invento im Storage	(e affected by	y the up	pdates substitution of the control o	mitted on this
39. TCEQ Programs and ID Norm. See the Core Data Form ins Dam Safety Municipal Solid Waste Sludge Voluntary Cleanup	B3-1236 Numbers Chartructions for a Districts New Sou Storm Wasse W New Arer Inf	rce Review Air ater ater	s and write ince. □ Edwa □ OSS □ Title □ Wast	in the permi ards Aquifer F V Air tewater Agr	ts/regis	tration	Petroleu Tires Water R	that will be ins Inventor im Storage	(e affected by	y the up	pdates substitution of the control o	mitted on this
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39. TCEQ Programs and ID Norm. See the Core Data Form ins Dam Safety Municipal Solid Waste Sludge Voluntary Cleanup SECTION IV: Prep 40. Name: Shelley You 42. Telephone Number (281) 373-0500	B3-1236 Numbers Chartructions for a Districts Districts New Sou Storm Water Waste Waste Warer Informs Oung 43. Ext./discording to the	rce Review Air ater ater Code ignature e best of my k	s and write ince. □ Edward □ OSS □ Title □ Wast 44. Fax Nu (281) 37	in the perminands Aquifer F V Air tewater Agr mber 73-1113	ts/regis	41. Titl 45. E syo	Petroleu Tires Water R tle: E-Mail A ung@	that will be In s Inventor Im Storage ights Consu ddress watereit	e affected by ry Air e Tank Iting En	y the up	podates subside dustrial Haz	mitted on this zardous Waste

Name(In Print):Shelley Young, P.E.Phone:(281) 373-0500Signature:Shelley YoungDate:12/5/2024

Job Title:

Engineer

Company:

WaterEngineers, Inc.

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ATTACHMENT ADMIN.04

Plain Language Summary

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

TCEQ

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Clear Creek Reserve LLC (CN) proposes to operate the Clear Creek Reserve Wastewater Treatment Plant (RN), an activated sludge process with nitrification operated in the complete mix mode. The facility will be located at approximately 2,640 feet north northwest of the intersection of Tompkins Road and Mitchell Road, in Hempstead, Waller County, Texas 77445. This application for a new application to discharge a daily average flow of 300,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a screening facility, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

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

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

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

Clear Creek Reserve LLC (CN) propone operar la Planta de Tratamiento de Aguas Residuales de Clear Creek Reserve (RN New), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en aproximadamente 2,640 pies al norte noroeste de la interseccion de Camino Tompkins y Camino Mitchell, en Hempstead, Condado de Waller, Texas 77445. Esta solicitud es para una nueva aplicación para descargar a un flujo promedio diario de 300,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (CBOD₅), solidos totalmente suspendidos (TSS), nitrógeno amoniacal (NHℯ-N), y *Escherichia coli*. Los contaminantes potenciales adicionales se incluyen en el Informe Técnico Domésticas 1.0, Seccion 7 Análisis de Contaminantes de Efluente Tratado en el paquete de solicitud de permisos.. Las aguas residuales domésticas. estará tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una pantalla de barras, balsas de aireación, clarificadores finales, digestores de lodos, y cámaras de contacto de cloro.

ATTACHMENT ADMIN.05

Public Involvement Plan

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

WQ00 New Clear Creek Reserve LLC Clear Creek Reserve WWTP



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, <u>and</u>						
\times 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.						
The area affected by this permit action is not environmentally highly sensitive and, to the best of my knowledge, not been part of any other contested permit action.						

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

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

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

ATTACHMENT ADMIN.06

Affected Landowners Map and Table

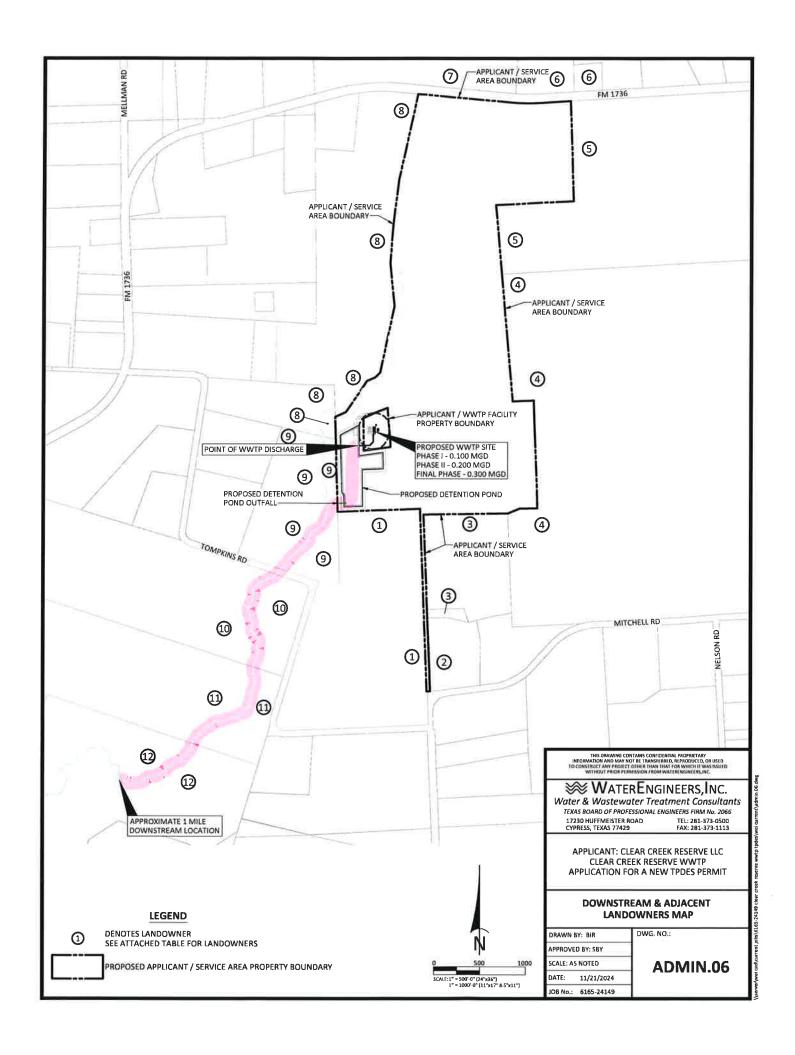
(Reference Administrative Report 1.1, Page 12, Section 1A&B)

TABLE "ADMIN.06"

CLEAR CREEK RESERVE LLC Clear Creek Reserve Wastewater Treatment Plant

Adjacent & Downstream Land Ownership Table Source: Waller County Appraisal Districts

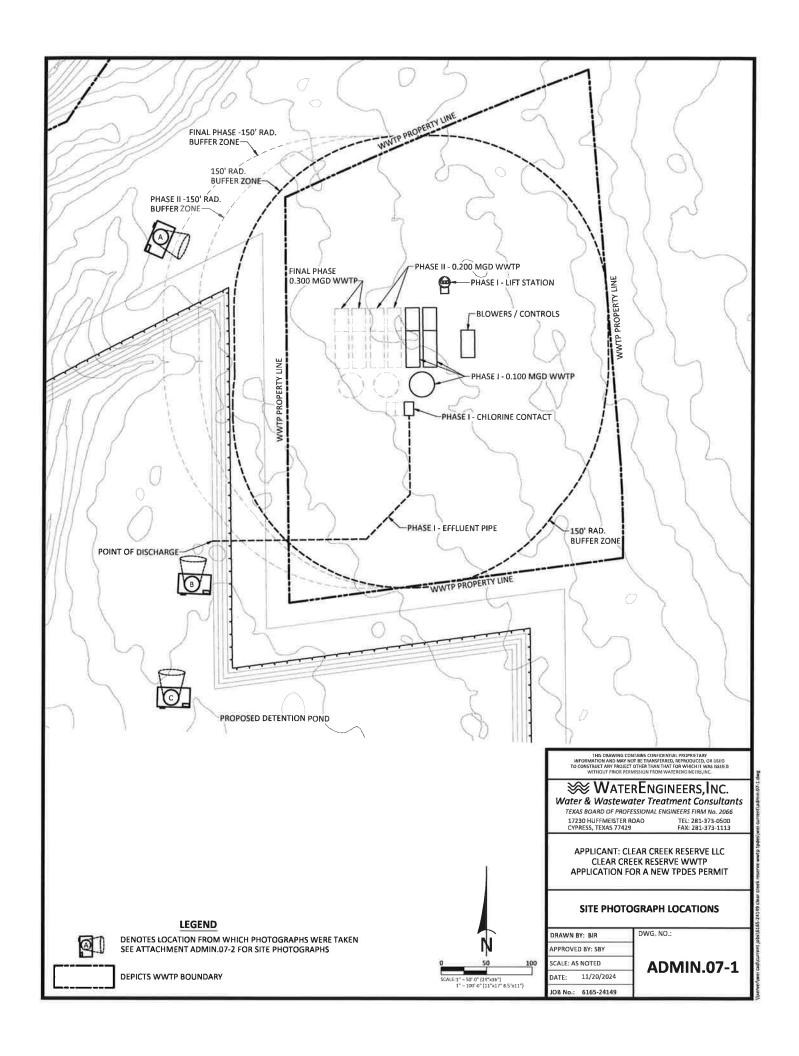
Tract No.	Title Owner & Address
(See Attachment "ADMIN.04" Map)	
	LEGACY AGRICULTURAL HOLDINGS LLC
1	11923 MOONLIT FALLS DR
	CYPRESS TX 77433
	DAVID & CHARITY STONE
2	26130 MITCHELL ROAD
	HEMPSTEAD TX 77445
	EDWARD GILLY CHISM TRUSTEE
3	27014 MUCHOW ROAD
	HEMPSTEAD TX 77445
is	CHOCTAW PROPERTY HOLDINGS
4	P O BOX 187
	KATY TX 77492
	CENTURY ACRES FARM LLC
5	28335 FM 1736
	HEMPSTEAD TX 77445
	CONFIDENTIAL
6	LANDOWNER INFORMATION IS
	UNAVAILABLE
	ROY & SHIRLEY MALONSON
7	28820 FM 1736
,	HEMPSTEAD TX 77445
	MORRIS RAY TEUTSCH TRUST AND
8	JANE R TEUTSCH TRUST
ď	432 PAINTBRUSH PATH
	NEW BRAUNSFELS TX 78132
9	TARYLL JENKINS & JULIETT TINNEL
9	2219 BRAER RIDGE
	KATY TX 77494
	L J KUBICEK
10	11307 MAPLE SPRINGS
	HOUSTON TX 77043
	HEXM INTERESTS LLC
11	19050 SHARP PL
	HOUSTON TX 77019



ATTACHMENT ADMIN.07

Photographs

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



PROPOSED WASTEWATER TREATMENT PLANT SITE





POINT OF DISCHARGE & UPSTREAM





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

WATER ENGINEERS, INC.

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

APPLICANT: CLEAR CREEK RESERVE LLC CLEAR CREEK RESERVE WWTP APPLICATION FOR A NEW TPDES PERMIT

SITE PHOTOGRAPHS

DWG. NO.:

DRAWN BY: BIR
APPROVED BY: SBY

SCALE: AS NOTED

DATE: 11/21/2024 JOB No.: 6165-24149 **ADMIN.07-2**

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

cad/current jobs/§165-24145 clear creek reserve wwtp 1pdes)wei current/adm

PROPOSED WASTEWATER TREATMENT PLANT SITE





WATER ENGINEERS, INC.
Water & Wastewater Treatment Consultants

TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066

17230 HUFFMEISTER ROAD

CYPRESS, TEXAS 77429

FAX: 281-373-1113

APPLICANT: CLEAR CREEK RESERVE LLC CLEAR CREEK RESERVE WWTP APPLICATION FOR A NEW TPDES PERMIT

SITE PHOTOGRAPHS DWG. NO.:

DRAWN BY: BIR APPROVED BY: SBY

SCALE: AS NOTED

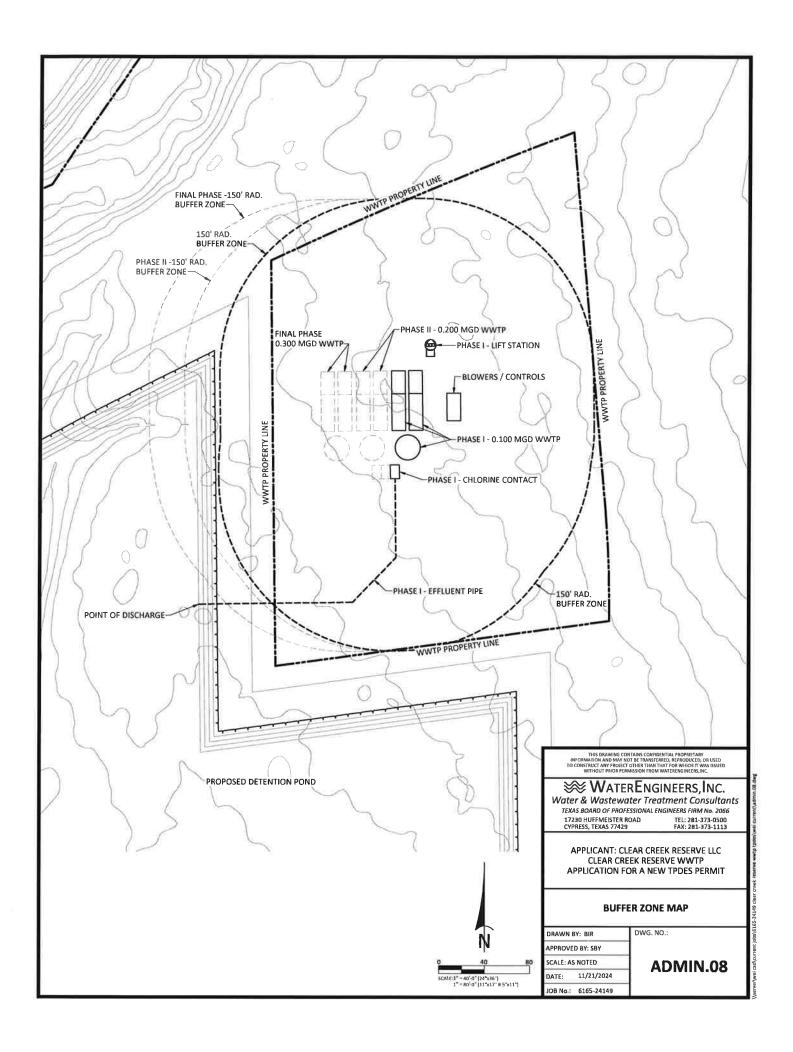
DATE: 11/21/2024 JOB Na.: 6165-24149 **ADMIN.07-3**

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

ATTACHMENT ADMIN.08

Buffer Zone Map

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



ATTACHMENT ADMIN.09 Supplemental Permit Information Form and USGS Map

(Reference Administrative Report Page 14)

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

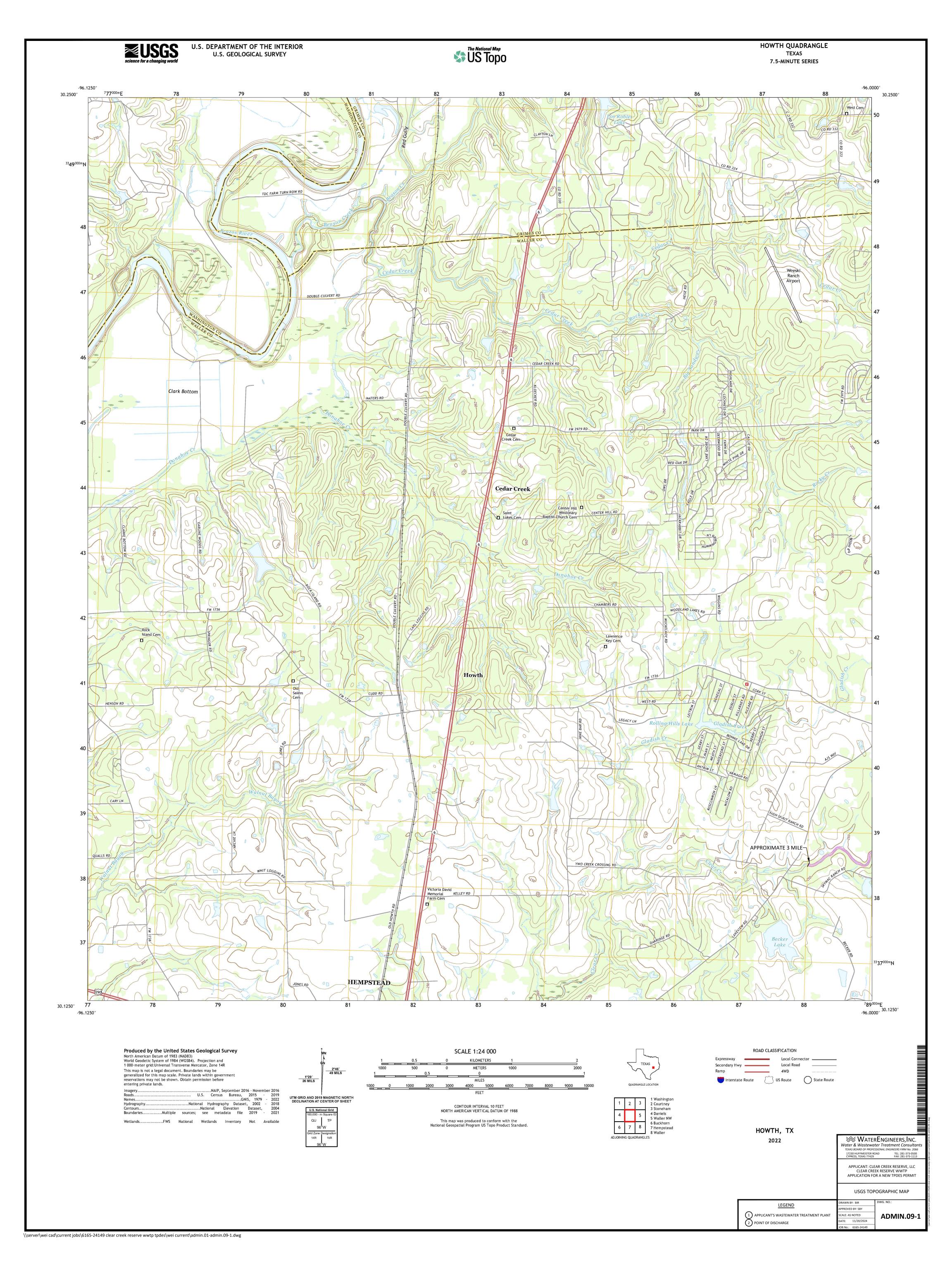
FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

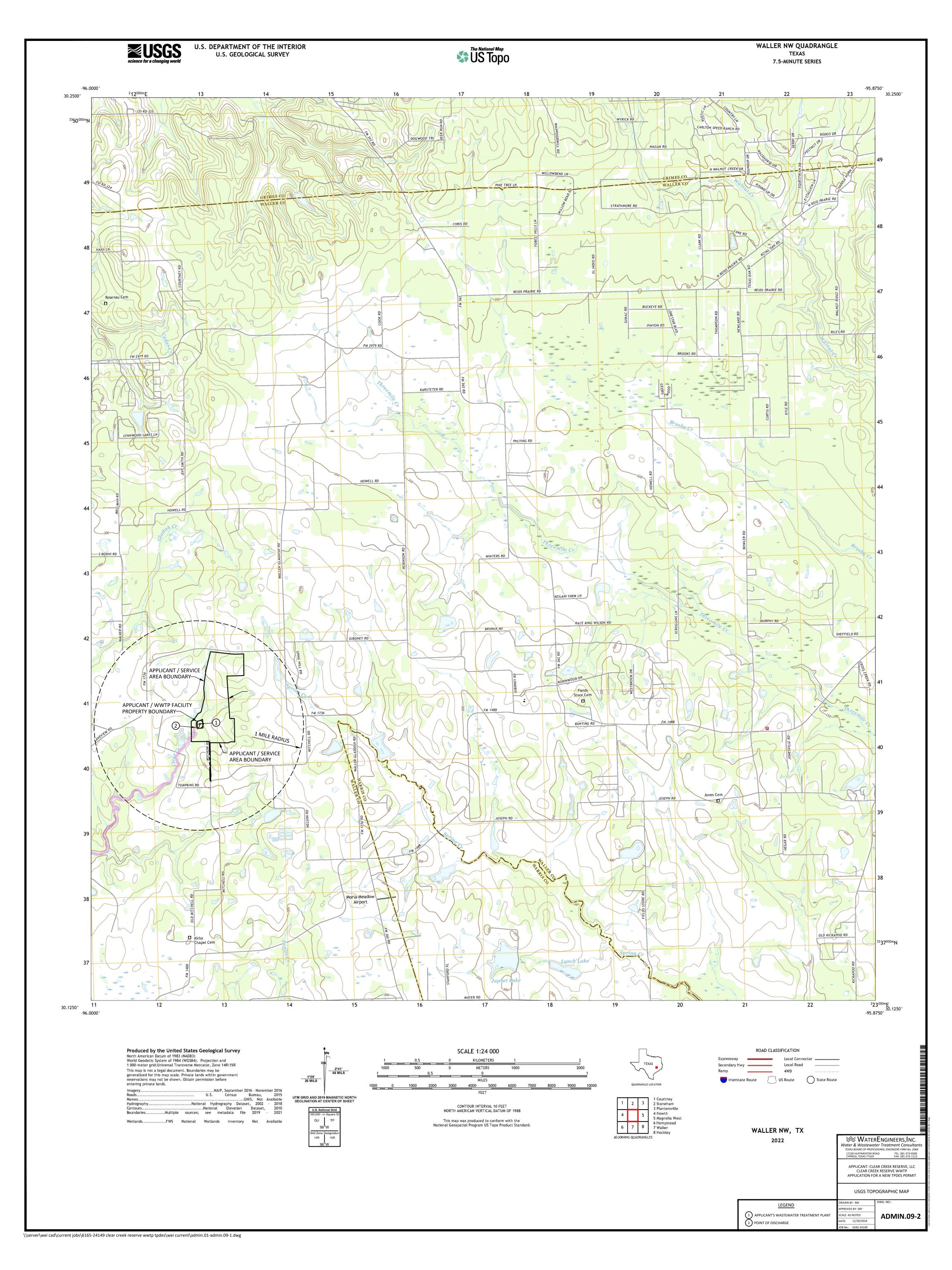
TCEQ USE ONLY:
Application type:RenewalMajor AmendmentMinor AmendmentNew
County: Segment Number:
Admin Complete Date:
Agency Receiving SPIF:
Texas Historical Commission U.S. Fish and Wildlife
Texas Parks and Wildlife Department U.S. Army Corps of Engineers
This form applies to TPDES permit applications only. (Instructions, Page 53)
Complete this form as a separate document. TCEQ will mail a copy to each agency as required lour agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.
Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this for may be directed to the Water Quality Division's Application Review and Processing Team by email at

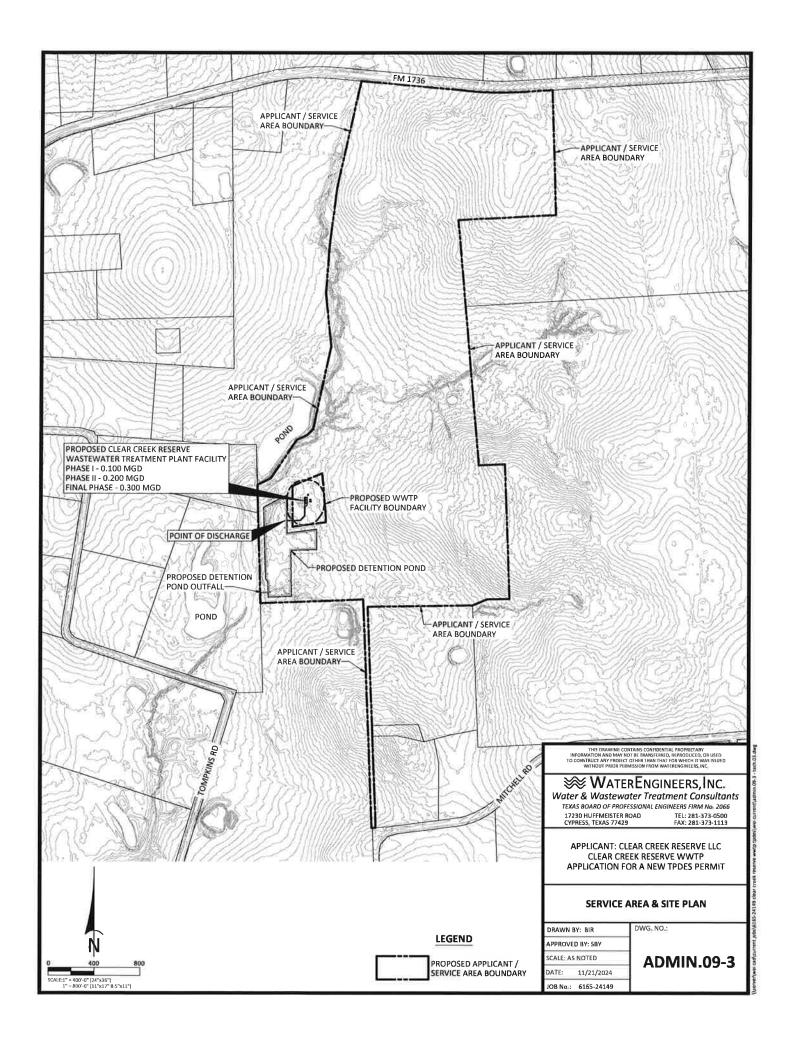
	Prefix	(Mr., Ms., Miss): <u>Ms.</u>			
	First a	nd Last Name: <u>Shelley Young</u>			
	Creder	ntial (P.E, P.G., Ph.D., etc.): <u>P.E.</u>			
	Title: <u>I</u>	<u>Engineer</u>			
	Mailing	g Address: <u>17230 Huffmeister Road, Suite A</u>			
	•	tate, Zip Code: <u>Cypress, TX 77429</u>			
		No.: <u>281-373-0500</u> Ext.: Click here to enter text. Fax No.: <u>281-373-1113</u>			
	E-mail	Address: <u>syoung@waterengineers.com</u>			
2.	List the	e county in which the facility is located: <u>Waller</u>			
3.	66	property is publicly owned and the owner is different than the permittee/applicant, list the owner of the property.			
	11/21				
4.	of effludischar	e a description of the effluent discharge route. The discharge route must follow the flow tent from the point of discharge to the nearest major watercourse (from the point of tree to a classified segment as defined in 30 TAC Chapter 307). If known, please identify ssified segment number.			
		the plant site to Clear Creek; thence to the Brazos River Below Navasota River in ent No. 1202 of the Brazos River Basin.			
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	e original photographs of any structures 50 years or older on the property.			
	Does y	our project involve any of the following? Check all that apply.			
	\boxtimes	Proposed access roads, utility lines, construction easements			
		Visual effects that could damage or detract from a historic property's integrity			
		Vibration effects during construction or as a result of project design			
		Additional phases of development that are planned for the future			
		Sealing caves, fractures, sinkholes, other karst features			

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

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







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

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

ATTACHMENT TECH.01-01 DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS CLEAR CREEK RESERVE WASTEWATER TREATMENT PLANT

Parameter	Phase 1	Phase 2	Phase 3
INFLUENT CONDITIONS	riidae i	Filase 2	Filase 3
Average Daily Flow, gpd	100,000	200,000	300,000
Ratio Average/Peak Flow	4.00	4.00	4.00
Peak 2-Hour Flow, gpd Peak 2-Hour Flow, gpm	400,000 278	800,000 556	1,200,000 833
BOD, mg/l	300	300	300
BOD, lb/day	250	500	751
ACTIVATED SLUDGE PROCESS			
Aeration Basin			
Aeration Length Provided, ft	64.0 12	128.0 12	192.0 12
Aeration Basin Width Provided, ft SWD at Avg Daily Flow, ft	10.50	10.50	10.50
Total Aeration Volume, cu ft	8,064	16,128	24,192
BOD Load, #/1000 cu ft	31.0	31.0	31.0
Detention time, hrs	14.5	14.5	14.5
O2 Req'd @ 2.2 # O2/lb BOD, #/day	550	1,101	1,651
Correction Factor (Coarse Bubble)	0.65	0.65	0,65
Air Diffuser Eff., % Process Air Flow Rate, scfm	16.6% 206	16.6% 411	16.6% 617
Mixing Air @ 20 scfm/1000 cu ft	161	323	484
Selected Air Supply Rate, scfm	206	411	617
Temperature Correction Factor for 30 deg F	1.27	1,27	1,27
Temperature Corrected Air Flow Rate, scfm	261	521	782
No. diffusers (24-inch wide SS band diffuser)	12.0	24.0	36.0
Air Flow per Diffuser, scfm Air Supply, scfm/1000 cf	21.7 32	21,7 32	21.7 32
R.S. Airlift Air, scfm	16	16	16
Skimmer Airlift Air, scfm	5	5	5
CLARIFIER			
No, of clarifiers	1	2	3
Selected Clarifier Diameter, ft	22	22	22
Clarifier Wall Height, ft	12,00	12,00	12.00
Side Water Depth @ Qavg, ft Total Area sq ft	10.50 380	10.50 760	10.50 1,140
Total Volume, cu ft	3,991	7,983	11,974
Total Volume, gallons	29,856	59,711	89,567
Avg. SOR, gpd/sq ft	263	263	263
Peak SOR, gpd/sq ft	1,052	1,052	1,052
Avg. Detention, hr	7.17	7,17	7.17
Peak Detention, hr Max Qr @ 400 gpd/sf, gpm (each)	1.8 106	1.8 106	1.8 106
Max Qr @ 400 gpd/sf, gpd (each)	152,053	152,053	152,053
Max Qp + Qr, gpd (each)	552,053	552,053	552,053
CHLORINE CONTACT BASIN			
No. of chlorine basins	1	2	3
Proposed Length, ft	12,00	12,00	12,00
Proposed Width, ft Proposed SWD, ft	8.00 8.5	8.00 8.5	8.00 8.5
Actual Volume, cu ft	816	1,632	2,448
Air Supply Required @ 15 scfm/1000 cu ft	12	24	12
Actual Detention @ Qp, minutes	21,97	21.97	21,97
AEROBIC DIGESTION/SLUDGE HOLDING			
Proposed Length, ft	40.0	80.0	120.0
Proposed Width, ft Proposed SWD, ft	12 10,5	12 10.5	12 10.5
Volume Provided, cu ft	5,040	10,080	15,120
Volume Provided, gallons	37,699	75,398	113,098
Loading, cu ft/# BOD	20.1	20,1	20.1
Air Supply Rate, scfm/1000 cu ft	30	30	30
Total Air Supply, cfm	151.2	302.4	453.6
Air Flow per Diffuser, scfm Minimum No. of diffusers	20 8	20 15	20 23
AIR BLOWERS	0	15	25
Aeration Basin Air Supply, scfm	261	521	782
Aerobic Digester Air Supply, scfm	151	302	454
Chlorine Basin Air Supply, scfm	12	24	12
Return Sludge Airlift Air Supply, sofm	16 5	16 5	16
Skimmer Airlift Air Supply, scfm Required Air Supply, cfm	5 445	5 869	5 1,269
No. of Blowers	2	3	4
Required Capacity, scfm	445	435	423
Selected Capacity, scfm	265	265	265
Blower Op Pressure, psi	5.58	5.58	5.58

Design & Loading Criteria-100-200-300 Coarse 11/13/2024 5:08 PM

DESIGN FEATURES FOR RELIABILITY

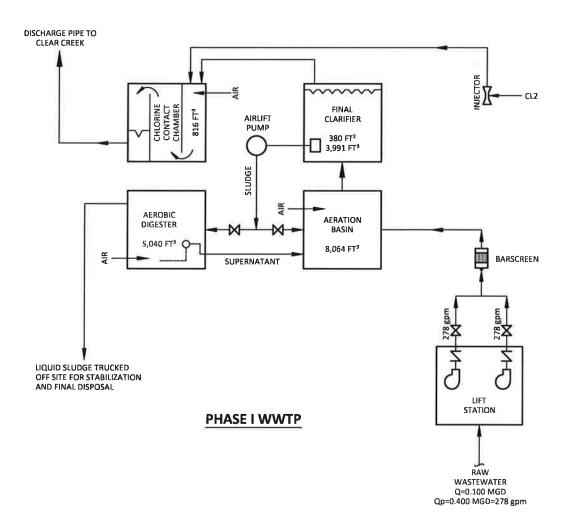
The Clear Creek Reserve Wastewater Treatment Plant facilities will be designed to provide a high degree of mechanical reliability consistent with TCEQ Design Criteria. The following describe design features that will be incorporated at the facilities to prevent bypassing or overflows of untreated wastewater:

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

ATTACHMENT TECH.02

Process Flow Diagram

(Reference Technical Report Page 2, Question 2c)



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

CLEAR CREEK RESERVE, LLC - APPLICANT CLEAR CREEK RESERVE WWTP APPLICATION FOR A NEW TPDES PERMIT

FLOW SCHEMATIC

DWG. NO.:

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

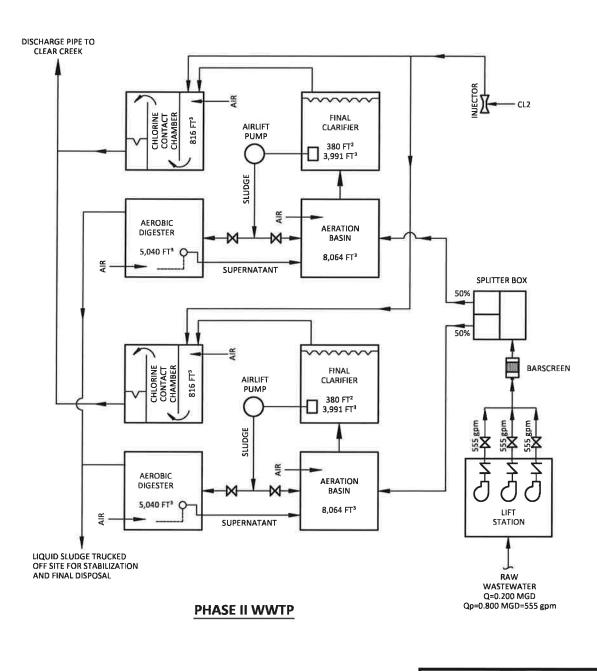
JOB No.: 6165-24149

DATE:

11/20/2024

TECH.02-1

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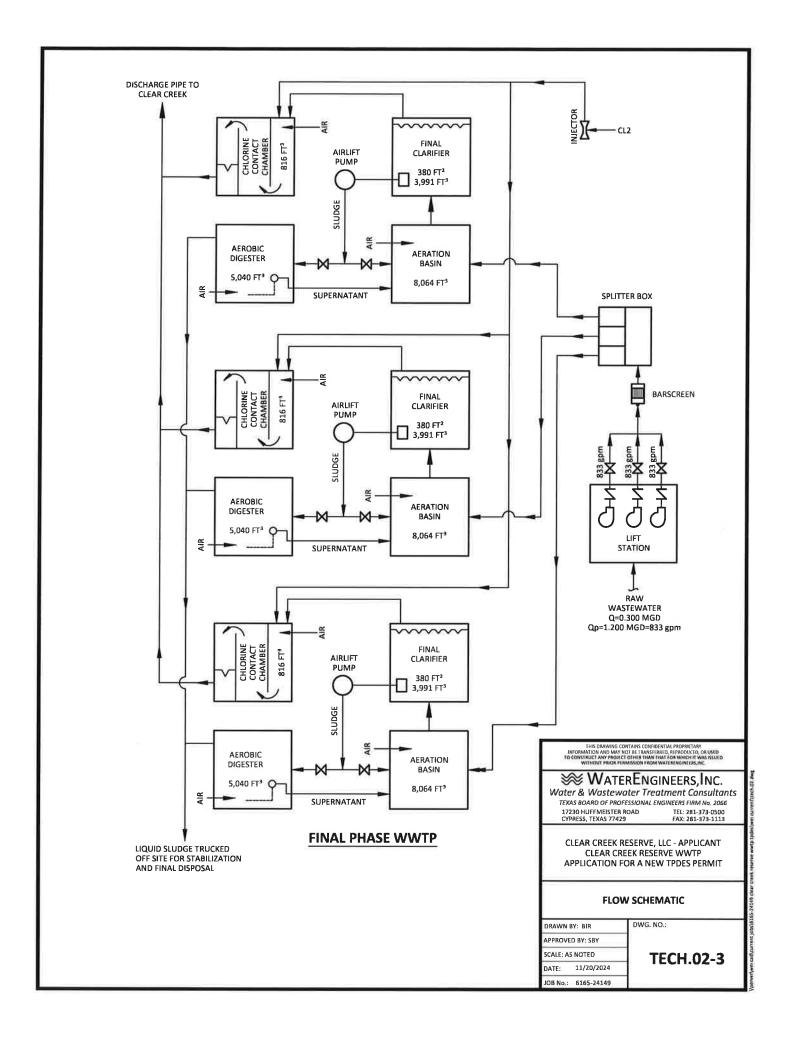
CLEAR CREEK RESERVE, LLC - APPLICANT CLEAR CREEK RESERVE WWTP APPLICATION FOR A NEW TPDES PERMIT

FLOW SCHEMATIC

DWG. NO.: DRAWN BY: BIR DATE: 11/20/2024

JOB No.: 6165-24149

TECH.02-2



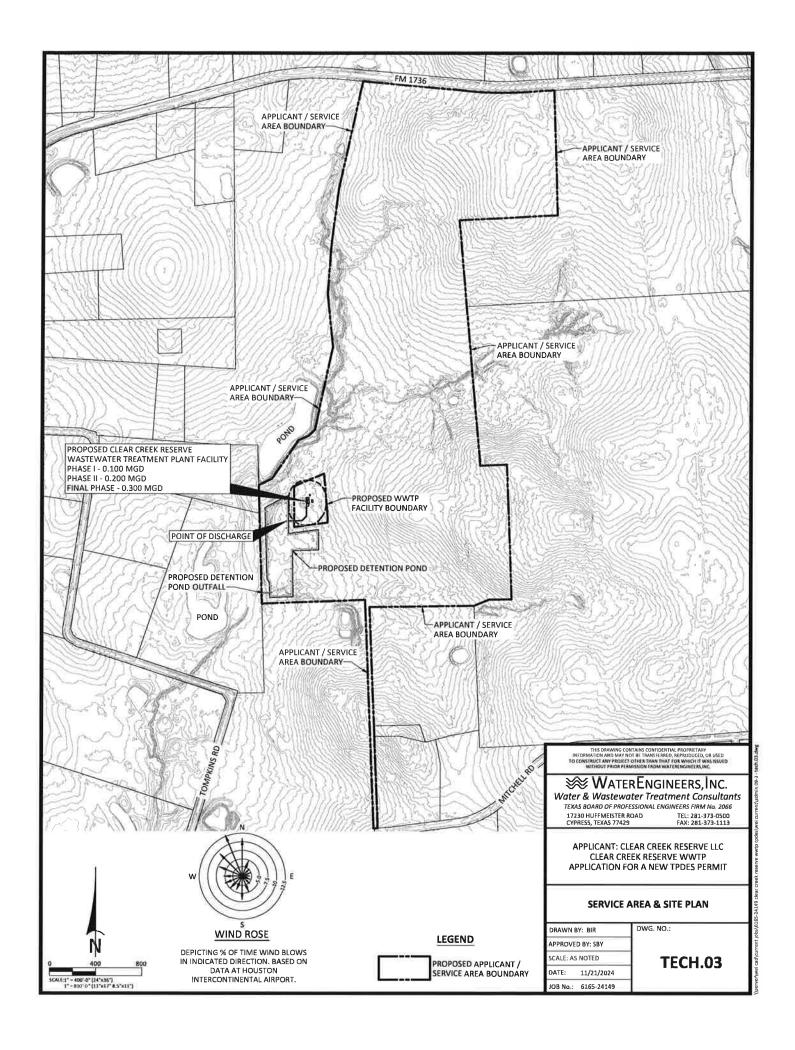
ATTACHMENT TECH.03

Site Drawing

(Reference Technical Report Page 2, Question 3)

(Including Wind Rose)

(Reference Technical Report Page 23, Question 7)



ATTACHMENT TECH.04

Solids Management Plan

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

ATTACHMENT TECH.04 SLUDGE MANAGEMENT PLAN

1. Type of Wastewater Treatment Process Used

The Clear Creek Reserve Wastewater Treatment Plant (WWTP) will use the activated sludge with nitrification process. Solids analyses have been made based upon a spreadsheet calculation set up using sludge kinetic calculations developed by Dr. Ross McKinney and published in *Notes on Activated Sludge*, 1971, by Brian L. Goodman. Tables TECH.04-01, TECH.04-02 and TECH.04-03 show the process design and sludge generation calculations for the design flows of 100,000 gpd, 200,000 gpd and 300,000 gpd.

2. Dimensions and Capacities

The Phase I treatment facility will have a digester with a total volume of 5,040 cu. ft., a surface area of 480 sq. ft. and a 10.5 ft. side water depth. The Phase I digester will provide a total design flow loading of 20.1 cu. ft./1b BOD. The Phase II treatment facility will add an identical unit as in Phase I for a total volume of 10,080 cu. ft., surface area of 960 sq. ft. and a 10.5 ft. side water depth. The Phase II digesters will provide a total design flow loading of 20.1 cu. ft./1b BOD. The Phase III treatment facility will add another identical unit for a total volume of 15,120 cu. ft., surface area of 1,440 sq. ft. and a 10.5 ft. side water depth. The Phase III digesters will provide a total design flow loading of 20.1 cu. ft./1b BOD.

3. Sludge Generation Calculations

Sludge generation calculations showing the amount of solids generated at 100%, 75%, 50% and 25% of design flows are included in Attachments TECH.04-01, TECH.04-02 and TECH.04-03. These are the solids that must be wasted from the activated sludge process and that must be stabilized in the aerobic digester. The results are summarized in the following table:

Phase	Solids @ 100% Qavg, lb/day	Solids @ 75% Qavg, lb/day	Solids @ 50% Qavg, lb/day	Solids @ 25% Qavg, lb/day
Phase I	171	128	85	43
Phase II	341	256	171	86
Phase III	512	384	256	128

4. Operating Range of Mixed Liquor Suspended Solids

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

		ed Solids % Flow			Predicted Solids @50% Flow		Predicted Solids @25% Flow	
	sludge age, days	MLSS mg/l	sludge age, days	MLSS mg/l	sludge age, days	MLS S mg/l	sludge age, days	MLSS mg/l
Phase I	10	3,510	13.5	3,556	20	3,514	40	3,516
Phase II	10	3,510	13.5	3,556	20	3,514	40	3,516
Phase III	10	3,510	13.5	3,556	20	3,514	40	3,516

5. Solids Removal Procedures

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

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

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

	_	% Flow acity	@ 75 % Flow Capacity		@ 50 % Flow Capacity		@ 25 % Flow Capacity	
Phase	% Solids	Gal/ Month	% Solids	Gal/ Month	% Solids	Gal/ Month	% Solids	Gal/ Month
Phase I	2.0	24,350	2.0	18,269	2.0	12,186	2.0	6,096
Phase II	2.0	48,701	2.0	36,538	2.0	24,372	2.0	12,191
Phase III	2.0	73,051	2.0	54,806	2.0	36,558	2.0	18,287

7. Identification of Disposal Site

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

ATTACHMENT TECH.04-01 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS

INFLUENT CONDITIONS				
Design Flow Rate, mgd 0.1	00	Aeration V	ol. cu ft	8,064
-	00	Clarifier Dia		22
, 5	00		de Wall Depth, ft	10.50
ų.	60		rface Area, sq ft	380
, •	50	Clarifier Vo		3,991
BOD Load, #/1000 cu ft 31.		Temperatu		20
505 Edda, #7 1000 cd 1t 512	O i	remperate	ne, deg o	20
Actual Plant Loading, %	100%	75.0%	50%	25.0%
Actual Flow Rate, mgd	0.100	0.075	0.050	0.025
BOD Loading, #/Day	250	188	125	63
Ret. Sludge Rate, gpd/sq ft	400	400	400	400
Ret. Sludge Flow, mgd	0.15	0.15	0.15	0.15
t = Aeration Time, days	0.603	0.804	1.206	2.413
ts = Sludge Age, Days	10.0	13.5	20.0	40.0
Km = BOD Removal Metabolic Facto		360	360	360
Ks = Synthesis Factor	250	250	250	250
Ke = Endogenous Metabolism Facto	r 0.24	0.18	0.12	0.06
F = Effl Soluble BOD	1.38	1,03	0.69	0.34
Ma = Active Mass	1,011	1,025	1,014	1,015
Me = Endogenous Mass	582	590	584	584
Mi = Inert Organic Mass	928	940	928	928
Mii = Inert Inorganic Mass	988	1,001	989	989
Mt = Total Mass, mg/l	3,510	3,556	3,514	3,516
Total Mass in Aeration Basin, lb	1,766	1,789	1,768	1,769
Lb BOD/Lb MLSS/Day	0.142	0.105	0.071	0.035
Effl TSS, mg/l	7	7	7	7
Effl BOD, mg/l	3	2	2	2
Sludge Accumulation, lb/day	177	133	88	44
TSS Lost In Effluent, lb/day	6	4	3	1
Waste Sludge, lb/day	171	128	85	43
Return Sludge Conc, mg/l	5,819	5,310	4,670	4,095
Waste Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Waste Sludge Flow, gpd	2,047	1,536	1,025	513
AEROBIC DIGESTER				
Volume, cu ft	5,040			
Design Loading, cu ft/lb BOD	20.14	26.86	40.29	80.58
Incoming Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Thick Sludge Conc, mg/l	20,000	20,000	20,000	20,000
Detention, Days	36.83	49.10	73.58	147.07
Infl Total Solids, lb/day	171	128	85	43
Infl Active Mass, lb/day	49	37	25	12
Effl Active Mass, lb/Day	5	4	3	1
Active Mass Red., lb/day	35	26	18	9
Digester Effl Solids, lb/day	135	102	68	34
Sludge Disposed, lb/mg	1,354	1,354	1,355	1,356
Sludge Disposed, tons/mg	0.68	0.68	0.68	0.68
Sludge Hauled, gal/day	812	609	406	203
Sludge Hauled, gal/month	24,350	18,269	12,186	6,096
	·	·	<u>.</u>	,

ATTACHMENT TECH.04-02 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS

INFLUENT CONDITIONS				
Design Flow Rate, mgd 0.20	00	Aeration	Vol. cu ff	16,128
	00			22
<u> </u>			iameter, ft (each)	
, 3	00		ide Wall Depth, ft	10.50
	30 30		urface Area, sq ft (total)	
<u> </u>	00		olume, cu ft (total)	7,983
BOD Load, #/1000 cu ft 31.0) <i>1</i>	i emperat	ture, deg C	20
Actual Plant Loading, %	100%	75.0%	50%	25.0%
Actual Flow Rate, mgd	0.200	0.150	0.100	0.050
BOD Loading, #/Day	500	375	250	125
Ret. Sludge Rate, gpd/sq ft	400	400	400	400
Ret. Sludge Flow, mgd	0.30	0.30	0.30	0.30
t = Aeration Time, days	0.603	0.804	1.206	2.413
ts = Sludge Age, Days	10.00	13.5	20.0	40.0
Km = BOD Removal Metabolic Facto	r 360	360	360	360
Ks = Synthesis Factor	250	250	250	250
Ke = Endogenous Metabolism Factor	0.24	0.18	0.12	0.06
F = Effl Soluble BOD	1.38	1.03	0.69	0.34
Ma = Active Mass	1,011	1,025	1,014	1,015
Me = Endogenous Mass	582	590	584	584
Mi = Inert Organic Mass	928	940	928	928
Mii = Inert Inorganic Mass	988	1,001	989	989
Mt = Total Mass, mg/l	3,510	3,556	3,514	3,516
Total Mass in Aeration Basin, lb	3,532	3,578	3,536	3,538
Lb BOD/Lb MLSS/Day	0.142	0.105	0.071	0.035
EffI TSS, mg/l	7	7	7	7
Effl BOD, mg/l	3	2	2	2
Sludge Accumulation, lb/day	353	265	177	88
TSS Lost In Effluent, lb/day	12	9	6	3
Waste Sludge, lb/day	341	256	171	86
Return Sludge Conc, mg/l	5,819	5,310	4,670	4,095
Waste Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Waste Sludge Flow, gpd	4,094	3,071	2,050	1,025
AEROBIC DIGESTER				
Volume, cu ft	10,080			
Design Loading, cu ft/lb BOD	20.14	26.86	40.29	80.58
Incoming Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Thick Sludge Conc, mg/l	20,000	20,000	20,000	20,000
Detention, Days	36.83	49.10	73.58	147.07
Infl Total Solids, Ib/day	341	256	171	86
Infl Active Mass, lb/day	98	74	49	25
Effl Active Mass, lb/Day	10	8	5	3
Active Mass Red., lb/day	71	53	35	18
Digester Effl Solids, lb/day	271	203	136	68
Sludge Disposed, lb/mg	1,354	1,354	1,355	1,356
Sludge Disposed, tons/mg	0.68	0.68	0.68	0.68
Sludge Hauled, gal/day	1,623	1,218	812	406
Sludge Hauled, gal/month	48,701	36,538	24,372	12,191
	, 			

ATTACHMENT TECH.04-03 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS

INFLUENT CONDITIONS				
	300	Aeration	Vol, cu ft	24,192
-	300		Diameter, ft (each)	·
_	200		Side Wall Depth, ft	
	160		•	
, ,	751		Surface Area, sq ft	
			/olume, cu ft (total)	· ·
BOD Load, #/1000 cu ft 3	1.07	rempera	ture, deg C	20
Actual Plant Loading, %	100%	75.0%	50%	25.0%
Actual Flow Rate, mgd	0.300	0.225	0.150	0.075
BOD Loading, #/Day	751	563	375	188
Ret. Sludge Rate, gpd/sq ft	400	400	400	400
Ret. Sludge Flow, mgd	0.46	0.46	0.46	0.46
t = Aeration Time, days	0.603	0.804	1.206	2.413
ts = Sludge Age, Days	10.0	13.5	20.0	40.0
Km = BOD Removal Metabolic Fac	tor 360	360	360	360
Ks = Synthesis Factor	250	250	250	250
Ke = Endogenous Metabolism Fact	or 0.24	0.18	0.12	0.06
F = Effl Soluble BOD	1.38	1.03	0.69	0.34
Ma = Active Mass	1,011	1,025	1,014	1,015
Me = Endogenous Mass	582	590	584	584
Mi = Inert Organic Mass	928	940	928	928
Mii = Inert Inorganic Mass	988	1,001	989	989
Mt = Total Mass, mg/l	3,510	3,556	3,514	3,516
Total Mass in Aeration Basin, Ib	5,298	5,367	5,304	5,307
Lb BOD/Lb MLSS/Day	0.142	0.105	0.071	0.035
Effl TSS, mg/l	7	7	7	7
Effl BOD, mg/l	3	2	2	2
Sludge Accumulation, lb/day	530	398	265	133
TSS Lost In Effluent, lb/day	18	13	9	4
Waste Sludge, lb/day	512	384	256	128
Return Sludge Conc, mg/l	5,819	5,310	4,670	4,095
Waste Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Waste Sludge Flow, gpd	6,142	4,607	3,074	1,538
AEROBIC DIGESTER				
Volume, cu ft	15,120			
Design Loading, cu ft/lb BOD	20.14	26.86	40.29	80.58
Incoming Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Thick Sludge Conc, mg/l	20,000	20,000	20,000	20,000
Detention, Days	36.83	49.10	73.58	147.07
Infl Total Solids, lb/day	512	384	256	128
Infl Active Mass, Ib/day	148	111	74	37
Effl Active Mass, lb/Day	15	11	8	4
Active Mass Red., lb/day	106	79	53	27
Digester Effl Solids, lb/day	406	305	203	102
Sludge Disposed, lb/mg	1,354	1,354	1,355	1,356
Sludge Disposed, tons/mg	0.68	0.68	0.68	0.68
Sludge Hauled, gal/day	2,435	1,827	1,219	610
Sludge Hauled, gal/month	73,051	54,806	36,558	18,287
<u>-</u>	•	•	•	ž

ATTACHMENT TECH.06

Development Schedule

(Reference Technical Report Page 20, Section 1A)

ATTACHMENT TECH.06 CLEAR CREEK RESERVE, LLC CLEAR CREEK RESERVEWASTEWATER TREATMENT PLANT WQ00 NEW

DEVELOPMENT SCHEDULE

	NUMBER C	OF ESFC	
YEAR	CONNEC	TIONS	
			GALLONS
	ANNUAL	TOTAL	TO WWTP
End 2026	150	150	33750 1ST 0.100 mgd WWTP constructed by Q4 2026
End 2027	150	300	67500
End 2028	150	450	101250 2ND 0.100 mgd WWTP constructed by Q4 2028
End 2029	50	500	112500

Clear Creek Reserve, LLC is currently negotiating purchase of additional property. If successful, the 3rd 0.100 mgd WWTP will be constructed by Q1 2033

Candice Calhoun

From: Shelley Young <syoung@waterengineers.com>
Sent: Wednesday, December 11, 2024 4:05 PM

To: Candice Calhoun

Subject: RE: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC -

Notice of Deficiency

Attachments: ADMIN.06.pdf; ADMIN.06~Downstream.doc; Labels.docx

Hi Candice,

Please see attached.

Regards, Shelley

Shelley B. Young, P.E. WaterEngineers, Inc. 17230 Huffmeister Rd. Cypress, TX ~ 77429 tel: 281-373-0500 fax: 281-373-1113

www.waterengineers.com

The contents of this e-mail and any attachment(s) are confidential, and the property of WaterEngineers, Inc.

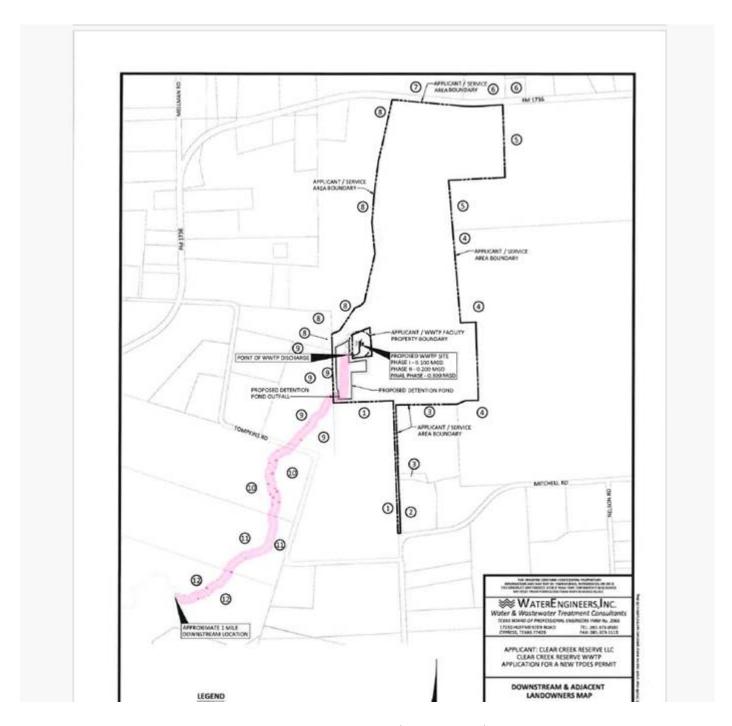
From: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>

Sent: Wednesday, December 11, 2024 11:33 AM **To:** Shelley Young <syoung@waterengineers.com>

Subject: RE: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC - Notice of Deficiency

Shelley,

This is what I received via the electronic application.



#1 and #9-I cannot clearly tell where 9 ends and 1 begins as they kind of merge together. #12-I cannot tell where the property ends. The rest should be okay.

Regards,

Candice Courville



Texas Commission on Environmental Quality Water Quality Division 512-239-4312

candice.calhoun@tceq.texas.gov

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

From: Shelley Young < sent: Wednesday, December 11, 2024 11:28 AM

To: Candice Calhoun < Candice.Calhoun@tceq.texas.gov >

Subject: Re: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC - Notice of Deficiency

We used the appraisal district map and each property is delineated from what I can see. Maybe we should have a call so you can better explain what you need.

Get Outlook for iOS

From: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>

Sent: Wednesday, December 11, 2024 11:16:12 AM **To:** Shelley Young <syoung@waterengineers.com>

Subject: RE: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC - Notice of Deficiency

Shelley,

For the affected landowner's property boundaries, I can not clearly tell where their properties begin and end. Each property boundary will need to be delineated.

Please let me know if you have any additional questions.

Regards,



Candice Courville

Texas Commission on Environmental Quality Water Quality Division 512-239-4312

candice.calhoun@tceg.texas.gov

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

From: Shelley Young < sent: Wednesday, December 11, 2024 11:14 AM

To: Candice Calhoun < Candice.Calhoun@tceq.texas.gov >

Subject: Re: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC - Notice of Deficiency

Hi Candice,

Can you tell me what about the property boundaries is unclear?

Thanks, Shelley

Get Outlook for iOS

From: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>

Sent: Tuesday, December 10, 2024 3:29:27 PM **To:** Shelley Young <syoung@waterengineers.com>

Subject: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC - Notice of Deficiency

Good afternoon, Shelley,

The attached Notice of Deficiency (NOD) letter dated <u>December 10, 2024</u>, requests additional information needed to declare the application administratively complete. Please send complete response, via email, by <u>December 24, 2024</u>.

Please let me know if you have any questions.

Regards,



Candice Courville

Texas Commission on Environmental Quality Water Quality Division 512-239-4312

candice.calhoun@tceq.texas.gov

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

Candice Calhoun

From: Shelley Young <syoung@waterengineers.com>

Sent: Thursday, December 12, 2024 3:40 PM

To: Candice Calhoun

Subject: RE: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC -

Notice of Deficiency

Attachments: Screen shots from Waller County Appraisal District.pdf

Hi Candice,

Please see the attached screen shots showing that the information is confidential.

Please confirm that you got the updated landowner list and labels document yesterday.

Regards, Shelley

Shelley B. Young, P.E. WaterEngineers, Inc. 17230 Huffmeister Rd. Cypress, TX ~ 77429 tel: 281-373-0500

fax: 281-373-1113 www.waterengineers.com

The contents of this e-mail and any attachment(s) are confidential, and the property of WaterEngineers, Inc.

From: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>

Sent: Thursday, December 12, 2024 12:03 PM **To:** Shelley Young <syoung@waterengineers.com>

Subject: RE: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC - Notice of Deficiency

Shelley,

My apologies, I realized, in the landowner list, that number 6 shows "confidential landowner information is unavailable". Could you please see if you are able to obtain the landowner information? If it is still showing unavailable, please let me know.

Regards,

Candice Calhoun

From: Shelley Young <syoung@waterengineers.com>

Sent: Thursday, December 12, 2024 3:58 PM

To: Candice Calhoun

Subject: RE: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC -

Notice of Deficiency

Attachments: Municipal Discharge New Spanish NORI.docx

Hi Candice,

I had already done it, I just hadn't sent it. The portion of the NORI in the NOD looks fine. Please see the attached Spanish version of the NORI.

Regards, Shelley

Shelley B. Young, P.E. WaterEngineers, Inc. 17230 Huffmeister Rd. Cypress, TX ~ 77429 tel: 281-373-0500

fax: 281-373-1113 www.waterengineers.com

The contents of this e-mail and any attachment(s) are confidential, and the property of WaterEngineers, Inc.

From: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>

Sent: Tuesday, December 10, 2024 3:29 PM

To: Shelley Young <syoung@waterengineers.com>

Subject: Application for Proposed Permit No. WQ0016680001 - Clear Creek Reserve LLC - Notice of Deficiency

Importance: High

Good afternoon, Shelley,

The attached Notice of Deficiency (NOD) letter dated <u>December 10, 2024</u>, requests additional information needed to declare the application administratively complete. Please send complete response, via email, by <u>December 24, 2024</u>.

Please let me know if you have any questions.

Regards,

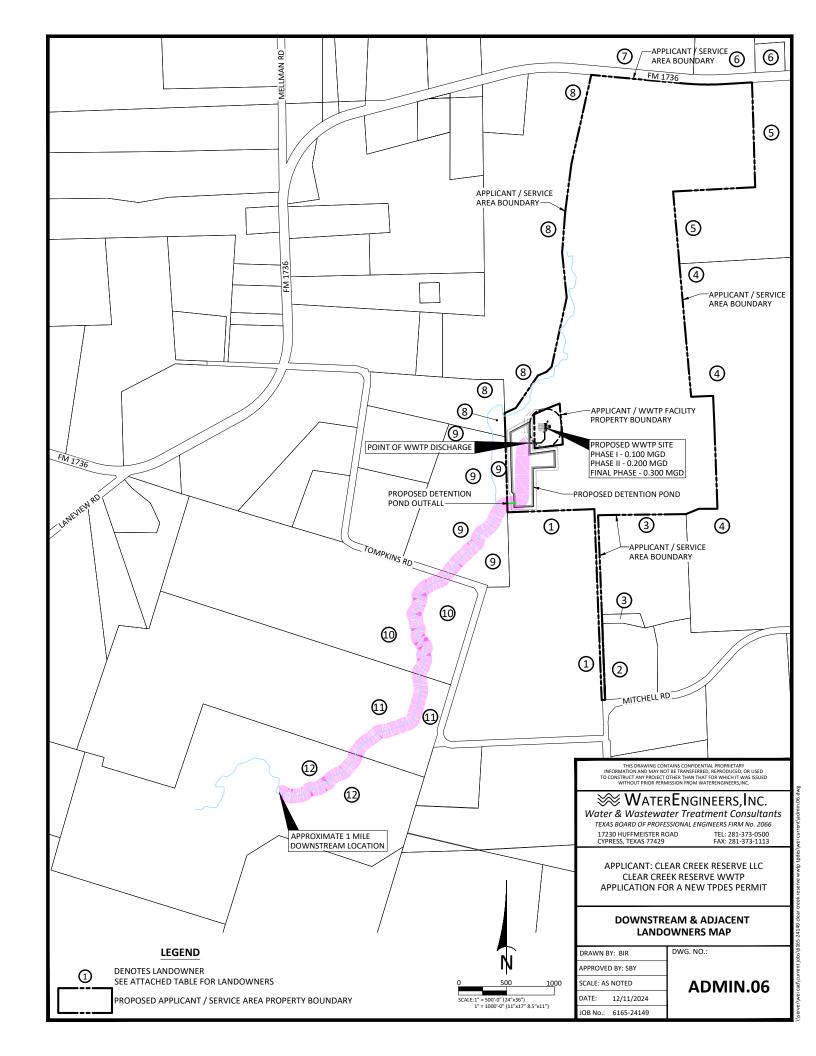


TABLE "ADMIN.06"

CLEAR CREEK RESERVE LLC Clear Creek Reserve Wastewater Treatment Plant

Adjacent & Downstream Land Ownership Table Source: Waller County Appraisal Districts

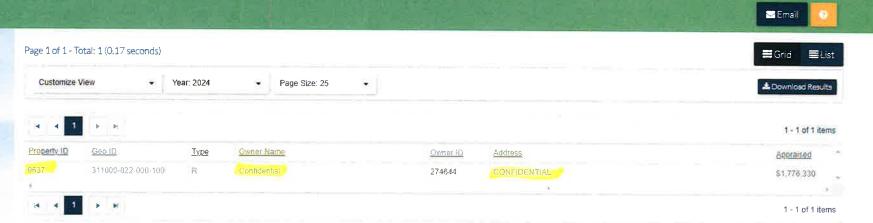
Tract No.	Title Owner & Address
(See Attachment "ADMIN.06" Map)	
(20011111111111111111111111111111111111	LEGACY AGRICULTURAL HOLDINGS LLC
1	11923 MOONLIT FALLS DR
_	CYPRESS TX 77433
	DAVID & CHARITY STONE
2	26130 MITCHELL ROAD
	HEMPSTEAD TX 77445
	EDWARD GILLY CHISM TRUSTEE
3	27014 MUCHOW ROAD
	HEMPSTEAD TX 77445
	CHOCTAW PROPERTY HOLDINGS
4	P O BOX 187
	KATY TX 77492
	CENTURY ACRES FARM LLC
5	28335 FM 1736
	HEMPSTEAD TX 77445
	CONFIDENTIAL
6	LANDOWNER INFORMATION IS
	UNAVAILABLE
	ROY & SHIRLEY MALONSON
7	28820 FM 1736
	HEMPSTEAD TX 77445
	MORRIS RAY TEUTSCH TRUST AND
8	JANE R TEUTSCH TRUST
	432 PAINTBRUSH PATH
	NEW BRAUNSFELS TX 78132
	TARYLL JENKINS & JULIETT TINNEL
9	2219 BRAER RIDGE
	KATY TX 77494
	L J KUBICEK
10	11307 MAPLE SPRINGS
	HOUSTON TX 77043
	HEXM INTERESTS LLC
11	19050 SHARP PL
	HOUSTON TX 77019
	RFALLIN SERIES LLC
12	9545 KATY FREEWAY SUITE 100
	HOUSTON TX 77024

LEGACY AGRICULTURAL HOLDINGS LLC 11923 MOONLIT FALLS DR CYPRESS TX 77433 DAVID & CHARITY STONE 26130 MITCHELL ROAD HEMPSTEAD TX 77445 EDWARD GILLY CHISM TRUSTT 27024 MUCHOW ROAD HEMPSTEAD TX 77445

CHOCTAW PROPERTY HOLDINGS P O BOX 187 KATY TX 77492 CENTURY ACRES FARM LLC 28335 FM 1736 HEMPSTEAD TX 77445 ROY & SHIRLEY MALONSON 28820 FM 1736 HEMPSTEAD TX 77445

MORRIS RAY TEUTSCH TRUST JANE R TEUTSCH TRUST 432 PAINTBRUSH PATH NEW BRAUNFELS TX 78132 TARYLL JENKINS & JULIETT TINNEL 2219 BRAER RIDGE KATY TX 77494 L J KUBICEK 11307 MAPLE SPRINGS HOUSTON TX 77043

HEXM INTERESTS LLC 19050 SHARP PL HOUSTON TX 77019 RFALLIN SERIES LLC 9545 KATY FRWY SUITE 100 HOUSTON TX 77024

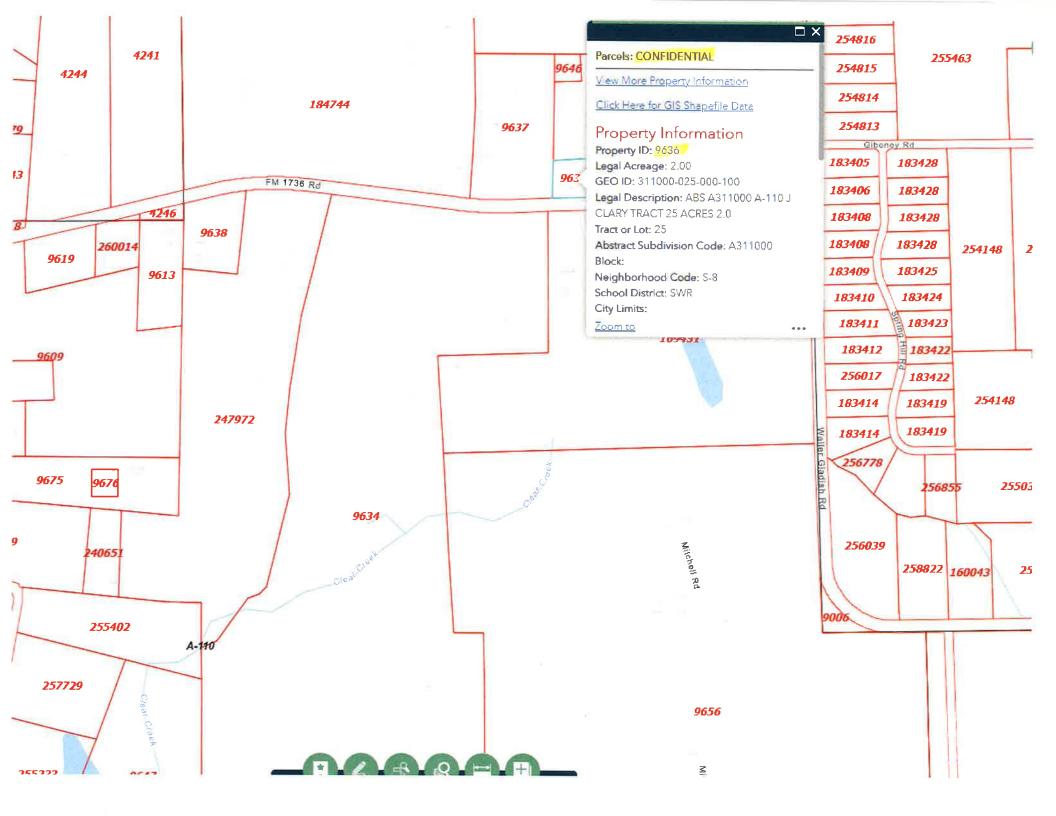


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