

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, el Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
 - Inglés
 - Idioma alternativo (español)
- 3. Solicitud original



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.

Aqua Texas, Inc. (CN 604062463) operates the Timberloch Estates Wastewater Treatment Plant (RN 102343227), an activated sludge process with nitrification operated in the complete mix mode. The facility is located at 16103 Bushy Oaks Trail, in Magnolia, Montgomery County, Texas 77355. This application is for a major amendment with renewal application to discharge a daily average flow of 130,000 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 bar screen, selector zone aeration basins, final clarifier, a sludge thickener, sludge digesters, chlorine contact chamber and effluent disk filters.

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.

Aqua Texas, Inc. (CN 604062463)) opera la Planta de Tratamiento de Aguas Residuales de Timberloch Estates (RN 102343227), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en 16103 Bushy Oaks Trail, en Magnolia, Condado de Montgomery, Texas 77355. Esta solicitud es para una enmienda importante con renovación aplicación para descargar a un flujo promedio diario de 130,000 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, zona selectora, balsas de aireación, clarificadore finale, espesador de lodos, digestores de lodos, cámara de contacto de cloro y filtros de disco para efluentes.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0014007001

APPLICATION. Aqua Texas, Inc., 1106 Clayton Lane, Suite 400W, Austin, Texas 78723, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014007001 (EPA I.D. No. TX0117846) to authorize to change the discharge route. The domestic wastewater treatment facility is located at 16103 Bushy Oaks Trail, in the city of Magnolia, in Montgomery County, Texas 77355. The discharge route is from the plant site to unnamed drainage ditch; thence to unnamed tributary of Spring Creek; thence to Spring Creek. TCEQ received this application on November 22, 2024. The permit application will be available for viewing and copying at Malcolm Purvis Library, Reference desk, 510 Melton Street, Magnolia, 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=-95.719444,30.111388&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 Aqua Texas, Inc. at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers, Inc., at 281-373-0500.

Issuance Date: December 10, 2024

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0014007001

SOLICITUD. Aqua Texas, Inc., 1106 Clayton Lane, Oficina 400W, Austin, Texas 78723, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) enmendar Permiso No. WQ0014007001 (EPA I.D. No. TX0117846) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar para cambiar la ubicación de descarga. La planta está ubicada a 16103 Bushy Oaks Trail, en la Ciudad de Magnolia, en el Condado de Montgomery, Texas 77355. La ruta de descarga es del sitio de la planta hasta a una zanja de drenaje sin nombre; de allí a un afluente sin nombre del arroyo Spring; de allí a Spring Creek. La TCEQ recibió esta solicitud el 22 de noviembre de 2024. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca de Malcom Purvis, 510 Calle de Melton, Magnolia, Texas 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=-95.719444,30.111388&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, v 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 v porqué el miembro sería afectado: v 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 Aqua Texas, Inc. a la dirección indicada arriba o llamando a Ms. Shelley Young, P.E., WaterEngineers, Inc., al 281-373-0500.

Fecha de emisión 10 de diciembre de 2024

WATER & WASTEWATER TREATMENT CONSULTANTS

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

Overnight by UPS

November 21, 2024

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

Re: Aqua Texas, Inc.

Application for a Major Amendment with Renewal for

TPDES Permit No. WQ0014007001

Timberloch Estates Wastewater Treatment Plant

Dear Sir/Ms:

Enclosed please find the original and one copy of the Application for a Major Amendment with Renewal to Texas Pollution Discharge Elimination System Permit No. WQ0014007001 for the Timberloch Estates Wastewater Treatment Plant in Montgomery 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.

Shelly Young, P.E.

Encl: As noted

APPLICATION FOR A MAJOR AMENDMENT WITH RENEWAL TO TEXASPOLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT NO. WQ0014007001

FOR

TIMBERLOCH ESTATES WASTEWATER TREATMENT PLANT

AQUA TEXAS, INC. 1106 CLAYTON LANE, SUITE 400W AUSTIN, TX 78723

PREPARED BY:

WATERENGINEERS, INC.

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

NOVEMBER 2024

APPLICATION FOR A MAJOR AMENDMENT WITH RENEWAL TO TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT NO. WQ0014007001

FOR

TIMBERLOCH ESTATES

WASTEWATER TREATMENT PLANT

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S COMMISSION P2

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Aqua Texas, Inc.

PERMIT NUMBER (If new, leave blank): WQ00 14007001

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

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

STORMINSTON

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 □

Pay	vment	Inform	ation
ra	AMCIIC	шиони	auvu

Mailed Check/Money Order Number: 13865

Check/Money Order Amount: \$850.00

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	eck 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 next to the appropriate facility status.								
		Active Inactive								

C.	Check the box next to the appropriate permit type.								
	\boxtimes	TPDES Permit							
		TLAP							
		TPDES Permit with TLAP component							
		Subsurface Area Drip Dispersal System (SAD	DS)						
d.	Che	eck the box next to the appropriate application	ı typ	e					
		New							
	\boxtimes	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 proposed changes: <u>Changing the discharge</u> <u>location</u>								
f.	For	existing permits:							
	Peri	mit Number: WQ00 <u>14007001</u>							
	EPA	I.D. (TPDES only): TX <u>0117846</u>							
	Exp	iration Date: <u>May 9, 2028</u>							
Se	ctic	on 3. Facility Owner (Applicant) a	nd	Co-Applicant Information					

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

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

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

Aqua Texas, Inc.

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

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

CN: 604062463

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: Blanchette, Craig

Title: President

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?

N/A

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the

legal documents forming the entity.)

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name. First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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.

Administrative Contact

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

X Technical Contact

B. Prefix: Click to enter text.

Check one or both:

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.

X

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

Permit Contact Information (Instructions Page 27) Section 5.

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

A. Prefix: Mr.

Last Name, First Name: Blanchette, Craig

Title: President

Credential: Click to enter text.

Organization Name: Aqua Texas, Inc.

Mailing Address: 1106 Clayton Lane, Suite 400W

City, State, Zip Code: Austin, TX 78723

Phone No.: 512-990-4400 E-mail Address: clblanchette@aquaamerica.com

B. Prefix: Mr. Last Name, First Name: Foltz, Scot

Title: Environmental Compliance Manager Credential: Click to enter text.

Organization Name: Aqua Texas, Inc.

Mailing Address: 1106 Clayton Lane, Suite 400W City, State, Zip Code: Austin, TX 78723

Phone No.: 512-990-4400 E-mail Address: swfoltz@aquaamerica.com

Section 6. Billing Contact Information (Instructions Page 27)

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

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

Title: Accounts Payable Credential: Click to enter text.

Organization Name: Aqua Texas, Inc.

Mailing Address: 1106 Clayton Lane, Suite 400W City, State, Zip Code: Austin, TX 78723

Phone No.: <u>512-990-4400</u> E-mail Address: Click to enter text.

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: Bautista, Abel

Title: Environmental Compliance Coordinator Credential: Click to enter text.

Organization Name: Aqua Texas, Inc.

Mailing Address: 19244 Ella Blvd City, State, Zip Code: Spring, TX 77388

Phone No.: 281-651-0174 ext. 54119 E-mail Address: ambautista@aquaamerica.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

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

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

Organization Name: WaterEngineers, Inc.

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

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

	Pa	ickage			
	In	dicate b	y a check n	nark t	he preferred method for receiving the first notice and instructions
	\boxtimes	E-ma	il Address		
		Fax			
		Regul	ar Mail		
C.	Co	ntact p	ermit to be	liste	d in the Notices
	Pr	efix: <u>Ms</u>	<u>.</u>		Last Name, First Name: Young, Shelley
	Ti	tle: <u>Engi</u>	neer		Credential: <u>P.E.</u>
	Or	ganizat	ion Name: <u>J</u>	Waterl	Engineers, Inc.
	Ma	ailing Ao	ddress: <u>1723</u>	o Huf	ffmeister Rd, Ste A City, State, Zip Code: Cypress, TX 77429
	Ph	one No.	281-373-05	500	E-mail Address: syoung@waterengineers.com
D.	Pu	ıblic Vie	wing Infor	matio	on
			lity or outfa Ist be provi		ocated in more than one county, a public viewing place for each
	Pu	blic bui	lding name	Malc	olm Purvis Library
	Lo	cation v	vithin the b	uildin	ng: Reference Desk
	Ph	ysical A	ddress of B	Buildir	ng: <u>510 Melton Street</u>
	Cit	ty: <u>Magn</u>	olia 77354		County: Montgomery
	Co	ntact (L	ast Name, I	First N	Name): <u>Elaine Taylor</u>
	Ph	one No.	936-442-77	704 Ex	xt.: Click to enter text.
E.	Bil	lingual l	Notice Requ	uirem	nents
					ed for new, major amendment, minor amendment or minor I applications.
	be	needed		instru	tion is only used to determine if alternative language notices will uctions on publishing the alternative language notices will be in s.
	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 st to the facility or proposed facility?
			Yes		No
		If no , p	oublication	of an	alternative language notice is not required; skip to Section 9
	2.				ttend either the elementary school or the middle school enrolled i
		\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	a biling	ual educa	ation prog	gram a	t another
			Yes		No						
	4.		the school b out of this							gram l	out the school has
			Yes		No						
	5.		inswer is yes ed. Which lar	-	•						tive language are
F.	Pla	in Lang	guage Summ	ary T	Гетрlate						
	Co	mplete	the Plain Lar	nguag	ge Summa	ry (TCE	Q Form	20972)	and inclu	de as a	ın attachment.
	At	tachme	nt: <u>ADMIN.o</u>	4							
G.	Pu	blic Inv	olvement P	lan F	orm						
	Co	mplete	the Public In	volve	ement Plar	ı Form	(TCEQ	Form 209	960) for ea	ach ap	plication for a
	ne	w perm	it or major a	amen	dment to	a pern	uit and	include a	s an attac	chmen	t.
	At	tachme	nt: <u>ADMIN.o</u>	5							
C	-0.5	0	D l - 4	. J T	2 . 4 4	. I D.		1.04	T. C		/Y
5 e	CU	on 9.	Regulat Page 29		entity ai	na Pe	rmitte	ea Site	Inform	auon	(Instructions
Λ	If t	ha sita i			atod by TO	CEO pr	ovido tl	oo Dogula	atod Entity	v Num	ber (RN) issued to
Α.			N <u>102343227</u>		ateu by Te	.EQ, pr	ovide ti	ie Keguia	iteu Emm	y INUIII	ber (KN) issued to
			TCEQ's Cen currently reg				/www1	5.tceq.tex	as.gov/cr	pub/	to determine if
B.	Na	me of p	roject or site	e (the	name kno	own by	the cor	nmunity	where loc	ated):	
	<u>Tin</u>	<u>nberloch</u>	Estates WW	<u> </u>							
C.	Ow	ner of t	reatment fa	cility:	Aqua Texa	s, Inc.					
	Ow	nership	of Facility:		Public	\boxtimes	Private	e 🗆	Both		Federal
D.	Ow	ner of l	and where t	reatn	nent facilit	y is or	will be:				
	Pre	fix: Clic	k to enter te	ext.	Last	Name,	First N	lame: Cli	ck to ente	r text.	
	Tit	le: Click	to enter tex	ĸt.	Cred	dential:	Click t	o enter t	ext.		
	Org	ganizati	on Name: <u>Ac</u>	<u>qua Te</u>	exas, Inc.						
	Ma	iling Ad	dress: <u>1106 (</u>	Clayto	n Lane, Su	ite 400\	<u>w</u> c	city, State	, Zip Cod	e: <u>Aust</u>	in, TX 78723
	Pho	one No.:	512-990-440	00	E-n	nail Ado	dress: <u>c</u>	lblanchett	te@aquaar	nerica.	com
			owner is not or deed rec						or co-ap	plican	t, attach a lease
		Attachi	ment: Click t	to en	ter text.						

	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
F.	Owner sewage sludge disposal 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.
	.' 10 EDDEOD' I	T C .1 (T1 D 0.1)
		ge Information (Instructions Page 31)
		ge Information (Instructions Page 31) ity location in the existing permit accurate?
	Is the wastewater treatment facil	
	Is the wastewater treatment facil ☑ Yes □ No	ity location in the existing permit accurate?
A.	Is the wastewater treatment facil	ity location in the existing permit accurate? on, please give an accurate description:
A.	Is the wastewater treatment facil	ity location in the existing permit accurate?
A.	Is the wastewater treatment facil	ity location in the existing permit accurate? on, please give an accurate description: the discharge route(s) in the existing permit correct?
A.	Is the wastewater treatment facil	ity location in the existing permit accurate? on, please give an accurate description: the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the
A.	Is the wastewater treatment facil	ity location in the existing permit accurate? on, please give an accurate description: 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	ity location in the existing permit accurate? on, please give an accurate description: the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the
A.	Is the wastewater treatment facil	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 drainage ditch; thence to an unnamed tributary of Spring gment No. 1008 of the San Jacinto River Basin.
A.	Is the wastewater treatment facil	on, please give an accurate description: 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 drainage ditch; thence to an unnamed tributary of Spring gment No. 1008 of the San Jacinto River Basin.
А.	Is the wastewater treatment facil	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 drainage ditch; thence to an unnamed tributary of Spring gment No. 1008 of the San Jacinto River Basin. lia /are located: Montgomery discharge to a city, county, or state highway right-of-way, or

E. Owner of effluent disposal site:

	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	ction 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.				
B.	City nearest the disposal site: Click to enter text.				
C.	County in which the disposal site is located: Click to enter text.				
D.	For TLAPs , describe the routing of effluent from the treatment facility to the disposal site:				
	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.				
Sa	ction 12 Miccellangous Information (Instructions Dags 22)				
	ction 12. Miscellaneous Information (Instructions Page 32)				
Α.	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.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?				
	□ Yes ⊠ No				
	If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: Click to enter text.				
D.	Do you owe any fees to the TCEQ?				
	□ Yes ⊠ No				
	If yes , provide the following information:				
	Account number: Click to enter text.				
	Amount past due: Click to enter text.				
E.	Do you owe any penalties to the TCEQ?				
	□ Yes ⊠ No				
	If yes , please provide the following information:				
	Enforcement order number: Click to enter text.				
	Amount past due: Click to enter text.				
Se	ection 13. Attachments (Instructions Page 33)				
Inc	dicate which attachments are included with the Administrative Report. Check all that apply:				
	Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.				
\boxtimes	Original full-size USGS Topographic Map with the following information:				
	 Applicant's property boundary 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> rm, Admin.o4-Plain Language Summary, Admin.o5-Public Involvement Plant, Admin.o6-Downstrear d Adjacent Landowner Map and List, Admin.o7-Photographs, Admin.o8-Buffer Zone Map, Admin.o9- IF				

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0014007001

Cianatana - ana (tanad - - - - - - - - - - - n)

(Use blue ink)

Applicant: Aqua Texas, Inc.

Certification:

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

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

Signatory name (typed or printed): Craig Blanchette		
Signatory title: <u>President</u>		
Signature: Blanch	Date:	111

Subscribed and Sworn to before me by the said <u>Craig Blanchette</u>
on this <u>4th</u> day of <u>Uvember</u>, 2024.

My commission expires on the 15th day of March 2026.

Notary Public

LAURA SCHROETER
Notary ID #131492026
My Commission Expires
March 15, 2026

[SEAL]

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION **ADMINISTRATIVE REPORT 1.0**

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

Α.	Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:					
	□ The applicant's property boundaries					
	\boxtimes	The facility site boundaries within the applicant's property boundaries				
		The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone				
		The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)				
		The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream				
		The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge				
		The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides				
		The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property				
		The property boundaries of all landowners surrounding the effluent disposal site				
		The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located				
		The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located				
B.		Indicate by a check mark that a separate list with the landowners' names and mailing resses cross-referenced to the landowner's map has been provided.				
C.	Indi	cate by a check mark in which format the landowners list is submitted:				
	Σ	☐ USB Drive ☐ Four sets of labels				
D.	Prov <u>Appr</u>	ride the source of the landowners' names and mailing addresses: Montgomery County raisal District				
E.		equired by <i>Texas Water Code § 5.115</i> , is any permanent school fund land affected by application?				
		□ Yes ⊠ No				

B.

C.

D.

E.

	If ye land(s, provide the location and foreseeable impacts and effects this application has on the (s):			
		k to enter text.			
Se	ection	n 2. Original Photographs (Instructions Page 38)			
Pr	ovide	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	ctio	1 3. Buffer Zone Map (Instructions Page 38)			
Α.	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. 				
B.		r zone compliance method. Indicate how the buffer zone requirements will be met. k all that apply.			
	\boxtimes	Ownership			
		Restrictive easement			
	\boxtimes	Nuisance odor control			
		Variance			
C.		itable site characteristics. Does the facility comply with the requirements regarding table site characteristic found in 30 TAC § 309.13(a) through (d)?			
	\boxtimes	Yes □ No			

DOMESTIC WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Admin.09

STORMISSION 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>0.045</u>

2-Hr Peak Flow (MGD): o.180

Estimated construction start date: existing

Estimated waste disposal start date: existing

B. Interim II Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 0.130

2-Hr Peak Flow (MGD): <u>0.520</u>

Estimated construction start date: Q3 2024

Estimated waste disposal start date: Q3 2025

D. Current Operating Phase

Provide the startup date of the facility: early 2000's

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

The current phase flow enters the 0.045 mgd 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 is either returned to the aeration basin or wasted to the digester. In the Final Phase a new concrete plant will be constructed. Flow will enter the selector zone through a bar screen, then flow through a selector zone, thence to aeration basins, thence to the clarifier, thence to the chlorine contact chamber for disinfection thence through disk cloth filters, thence to discharge. Sludge will either be returned to the selector zone or wasted the sludge thickener, thence to the digester.

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	1	32' L x 12' W x 12.167' SWD
Clarifiers Ph I	1	26' diam x 12.167' SWD
Cl2 Contact Ph I	1	14' L x 8' W x 10.667' SWD
Digestion Ph I	1	20' L x 12' W x 12.167' SWD
See Attachment TECH.01	For final phase information	

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: 30.111442

Longitude: -95.719236

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 treatment fa	cility.
The Timberloch Estates WWT. Montgomery County.	P serves the Timberlo	ch Estates residential commu	nity in
Collection System Informatic each uniquely owned collection systems. examples. Collection System Information	tion system, existin Please see the inst i	g and new, served by this	facility, including
Collection System Name	Owner Name	Owner Type	Population Served
Timberloch Estates Collection System	Aqua Texas, Inc.	Privately Owned	~800-850
		Choose an item.	
		Choose an item.	
		Choose an item.	
Section 4. Unbuilt P Is the application for a rener	hases (Instruct		or phases?
⊠ Yes □ No	The or a perime that	contains an anount phase	or pridoco.
If yes, does the existing per years of being authorized by		that has not been constru	cted within five
⊠ Yes □ No			
If yes, provide a detailed dis Failure to provide sufficien recommending denial of th	t justification may	result in the Executive Di	
Permittee has a contract for the Q3 of 2024.	e construction of the	unbuilt phase and construction	on will begin in
			1

Section 5. Closure Plans (Instructions Page 45)

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

	⊠ Yes □ No
If y	yes, was a closure plan submitted to the TCEQ?
	□ Yes ⊠ No
If y	yes, provide a brief description of the closure and the date of plan approval.
	nce the new plant is constructed, a closure plan will be submitted and the old plant will be ecommissioned.
Se	ction 6. Permit Specific Requirements (Instructions Page 45)
	r applicants with an existing permit, check the Other Requirements or Special ovisions of the permit.
A.	Summary transmittal
	Have plans and specifications been approved for the existing facilities and each proposed phase?
	⊠ Yes □ No
	If yes, provide the date(s) of approval for each phase: submitted on
j	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.
	Noise and Odor Abatement plan approved by TCEQ in letter dated April 27, 2023

C.	Other actions required by the current permit						
	Does the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.						
⊠ Yes □ No							
If yes, provide information below on the status of any actions taken to meet the conditions of an Other Requirement or Special Provision.							
	N	ubmittal of Summary Transmittal and Notification of Completion for final phase. PLEASE OTE THAT OTHER REQUIREMENT NO. 3 NEEDS TO BE UPDATED TO REFLECT A NEW OISE AND ODOR ABATEMENT PLAN APPROVED ON APRIL 27, 2023.					
D.		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 decants or accepts transported loads of grit and grease waste that are dischardirectly 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.					
	<i>3.</i>	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 Does the facility have a design flavy of 1.0 MCD on greater in any phase?
	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.

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

	Click to enter text.	
	Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling w require compliance with all individual permit requirements including 2-hour peak flo limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.	
F.	Discharges to the Lake Houston Watershed	
	Does the facility discharge in the Lake Houston watershed?	
	⊠ Yes □ No	
	If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions Attachment TECH.04	3.
G.	Other wastes received including sludge from other WWTPs and septic waste	
	1. Acceptance of sludge from other WWTPs	
	Does or will the facility accept sludge from other treatment plants at the facility site?	p :
	□ Yes ⊠ No	
	If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.	
	In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an	
	estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has no changed since the last permit action.	
	Click to enter text.	
	Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.	
	2. Acceptance of septic waste	
	Is the facility accepting or will it accept septic waste?	
	□ Yes ⊠ No	
	If yes, does the facility have a Type V processing unit?	
	□ Yes □ No	
	If yes, does the unit have a Municipal Solid Waste permit?	
	□ Yes □ No	

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

Click to enter text.			

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

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
_	100		410

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	3.53	3.53	1	grab	7/22/24 @ 10:00
Total Suspended Solids, mg/l	<1.00	<1.00	1	grab	7/22/24 @ 10:00
Ammonia Nitrogen, mg/l	<0.04	,0.04	1	grab	7/22/24 @ 10:00
Nitrate Nitrogen, mg/l	11.4	11.4	1	grab	7/22/24 @ 10:00

			, , , , , , , , , , , , , , , , , , , ,		
Total Kjeldahl Nitrogen, mg/l	<1.00	<1.00	1	grab	7/22/24 @ 10:00
Sulfate, mg/l	21.5	21.5	1	grab	7/22/24 @ 10:00
Chloride, mg/l	72.2	72.2	1	grab	7/22/24 @ 10:00
Total Phosphorus, mg/l	4.28	4.28	1	grab	7/22/24 @ 10:00
pH, standard units	7.18	7.18	1	grab	7/22/24 @ 10:00
Dissolved Oxygen*, mg/l	7.53	7.53	1	grab	6/27/24 @ 07:16
Chlorine Residual, mg/l	4.40	4.40	1	grab	7/22/24 @ 10:00
E.coli (CFU/100ml) freshwater	<1.00	<1.00	1	grab	7/22/24 @ 10:00
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l	414	414	1	grab	7/22/24 @ 10:00
Electrical Conductivity, µmohs/cm, †	647	647	1	grab	7/22/24 @ 10:00
Oil & Grease, mg/l	<5.0	<5.0	1	grab	7/22/24 @ 10:00
Alkalinity (CaCO ₃)*, mg/l	113	113	1	grab	7/22/24 @ 10:00
ATDDEC : 1		*	•	•	•

^{*}TPDES permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Randy Cox

Facility Operator's License Classification and Level: **B**

Facility Operator's License Number: WW0075823

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

[†]TLAP permits only

		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: Mount Houston Road MUD WWTP

TCEQ permit or registration number: WQoo11540001

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 □
Erquia Es	ocim inquia	ociii oolia L	JOHA L

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

A.

Beneficial use au	ıthorization
Does the existing beneficial use?	permit include authorization for land application of sewage sludge for
□ Yes ⊠	No
If yes, are you rebeneficial use?	questing to continue this authorization to land apply sewage sludge for
□ Yes □	No
	pleted Application for Permit for Beneficial Land Use of Sewage Sludge 10451) attached to this permit application (see the instructions for
□ Yes □	No

B. Slud	lge processing authorization				
	s the existing permit include authorization fo age or disposal options?	or an	y of the	follow	ving sludge processing,
S	Sludge Composting		Yes	\boxtimes	No
N	Marketing and Distribution of sludge		Yes	\boxtimes	No
S	Sludge Surface Disposal or Sludge Monofill		Yes	\boxtimes	No
r	Temporary storage in sludge lagoons		Yes	\boxtimes	No
auth	es to any of the above sludge options and the corization, is the completed Domestic Waster hnical Report (TCEQ Form No. 10056) attack Yes No	wate	r Permit	Appl	ication: Sewage Sludge
Sectio	n 11. Sewage Sludge Lagoons (Ins	tru	ctions	Page	2 53)
Does th	is facility include sewage sludge lagoons?				
	Yes ⊠ No				
If yes, c	omplete the remainder of this section. If no,	proc	eed to S	ection	12.
A. Loca	ition information				
The prov	following maps are required to be submitted ride the Attachment Number.	as p	art of th	ie app	lication. For each map,
•	Original General Highway (County) Map:				
	Attachment: Click to enter text.				
•	USDA Natural Resources Conservation Ser	vice S	Soil Map	:	
	Attachment: Click to enter text.				
•	Federal Emergency Management Map:				
	Attachment: Click to enter text.				
•	Site map:				
	Attachment: Click to enter text.				
Disco apply	uss in a description if any of the following ex y.	ist w	ithin th	e lago	on area. Check all that
	Overlap a designated 100-year frequency	flood	d plain		
	Soils with flooding classification				
	l Overlap an unstable area				
	l Wetlands				
	Located less than 60 meters from a fault				
	None of the above				
Α	.ttachment : 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 <i>Section 7 of Technical Report 1.0.</i>
Nitrate Nitrogen, mg/kg: Click to enter text.
Total Kjeldahl Nitrogen, mg/kg: Click to enter text.
Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.
Phosphorus, mg/kg: Click to enter text.
Potassium, mg/kg: Click to enter text.
pH, standard units: Click to enter text.
Ammonia Nitrogen mg/kg: Click to enter text.
Arsenic: Click to enter text.
Cadmium: Click to enter text.
Chromium: Click to enter text.
Copper: Click to enter text.
Lead: Click to enter text.
Mercury: Click to enter text.
Molybdenum: Click to enter text.
Nickel: Click to enter text.
Selenium: Click to enter text.
Zinc: Click to enter text.
Total PCBs: Click to enter text.
Provide the following information:
Volume and frequency of sludge to the lagoon(s): Click to enter text.
Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.
Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.
Liner information
Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?
□ Yes □ No

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

	Click	t to enter text.
D.	Site d	evelopment plan
	Provid	de 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
 - o performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- · The laboratory supplies data for which the TCEQ does not offer accreditation.

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

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

CERTIFICATION:

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

Printed Name: Craig Blanchette

Title: President

Signature

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)

11. Justification of permit nec	nit need	permit	Of 1	Justification	A. Justifica	Α.
---------------------------------	----------	--------	------	----------------------	--------------	----

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.

	Ī	N/A – not requesting additional phases.
		*
B.	Re	gionalization of facilities
		r additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> eatment ¹ .
		ovide the following information concerning the potential for regionalization of domestinstewater treatment facilities:
	1.	Municipally incorporated areas
		If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.
		Is any portion of the proposed service area located in an incorporated city?
		□ Yes □ No ☒ Not Applicable
		If yes, within the city limits of: Click to enter text.
		If yes, attach correspondence from the city.
		Attachment: Click to enter text.
		If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.
		Attachment: Click to enter text.
	2.	Utility CCN areas
		Is any portion of the proposed service area located inside another utility's CCN area?
		□ Yes ⊠ No

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

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

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

⊠ Yes □ No

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

Attachment: N/A – not a new permit and not asking for additional capacity

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: N/A - not a new permit and not asking for additional capacity

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?
----	------	----------	----	------------

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): 0.045/0.130

Average Influent Organic Strength or BOD₅ Concentration in mg/l: 300/300

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): 112.6/325.3

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

Accepted industry standard		

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	0.045 / 0.130	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	0.045 / 0.130	
AVERAGE BOD₅ from all sources		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: E. Coli 63 mpn/100 ml

	Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.
	Total Suspended Solids, mg/l: Click to enter text.
	Ammonia Nitrogen, mg/l: Click to enter text.
	Total Phosphorus, mg/l: Click to enter text.
	Dissolved Oxygen, mg/l: Click to enter text.
	Other: Click to enter text.
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: E. Coli 63 mpn/100 ml
D.	Disinfection Method
	Identify the proposed method of disinfection.
	 ☑ Chlorine: 1-4 mg/l after 20 minutes detention time at peak flow
	Dechlorination process: N/A
	☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow
	☐ Other: Click to enter text.
	a other. Chek to cheer text.
Se	ction 4. Design Calculations (Instructions Page 59)
	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
Sa	ction 5. Facility Site (Instructions Page 60)
SE	ction 5. Facility Site (Instructions Page 60)
A.	100-year floodplain
	Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?
	⊠ Yes □ No
	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.
	Provide the source(s) used to determine 100-year frequency flood plain.

B. Interim II Phase Design Effluent Quality

FEMA Flood Map 480C0275H	
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 as	nd 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 applications: Click to enter text.	ation to the
B. Wind rose	
Attach a wind rose: Included on Attachment TECH.03	
Section 6. Permit Authorization for Sewage Sludge Dispos	sal
(Instructions Page 60)	
A. Beneficial use authorization	
Are you requesting to include authorization to land apply sewage sludge for on property located adjacent to the wastewater treatment facility under the permit?	
□ Yes ⊠ No	
If yes, attach the completed Application for Permit for Beneficial Land Us Sludge (TCEQ Form No. 10451): Click to enter text.	se of Sewage
B. Sludge processing authorization	
Identify the sludge processing, storage or disposal options that will be con wastewater treatment facility:	ducted at the
□ 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 Don Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ 10056): Click to enter text.	
Section 7. Sewage Sludge Solids Management Plan (Instru	ctions Page

61)

Attach a solids management plan to the application.

Attachment: TECH.04

B,

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)
r_ 4]		. 1 . 1	1 1 . 1 .	.11

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.	
· ·	

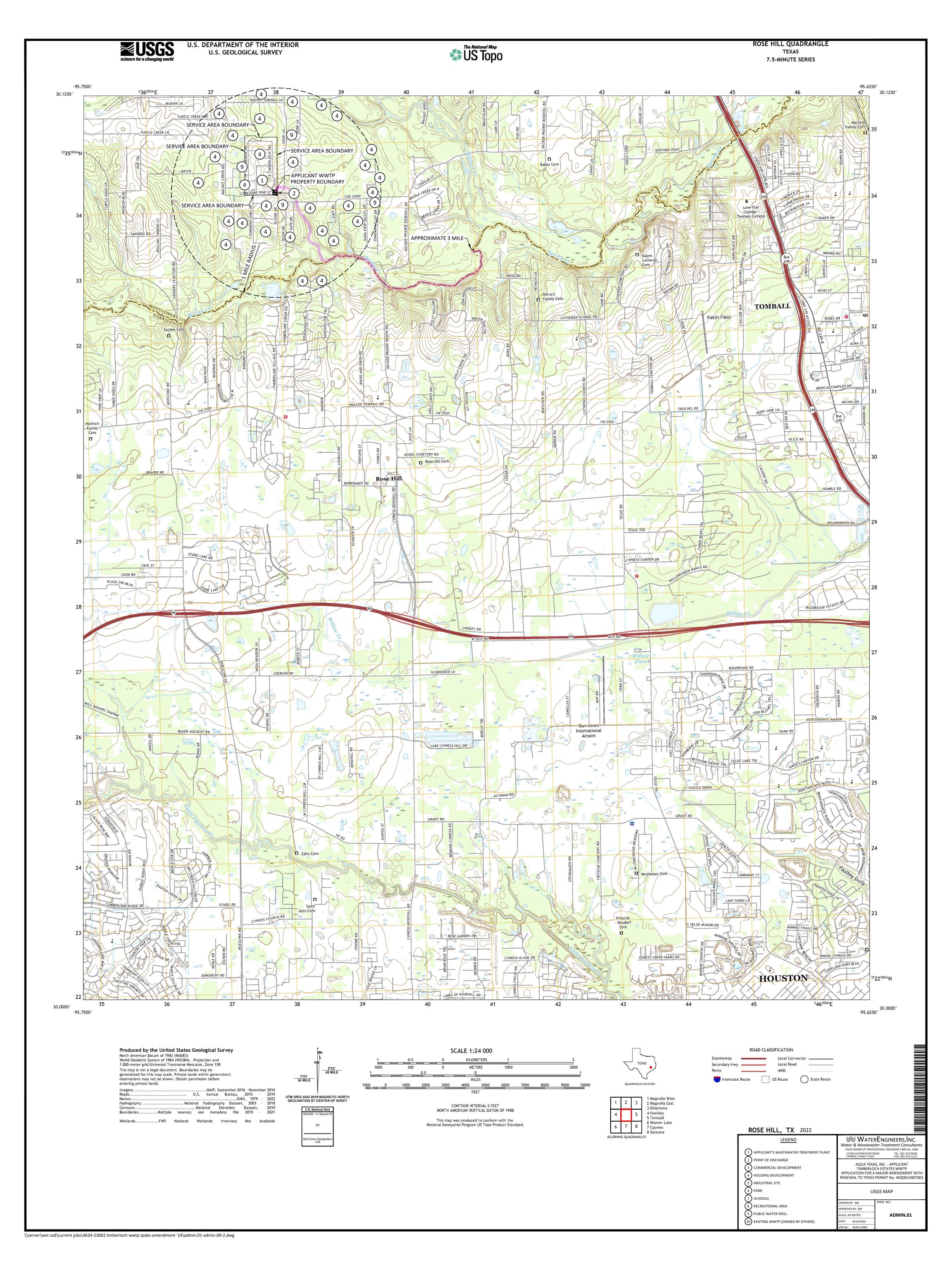
Section 3. Classified Segments (Instructions Page 64) Is the discharge directly into (or within 300 feet of) a classified segment? Yes 🛛 No If yes, this Worksheet is complete. **If no**, complete Sections 4 and 5 of this Worksheet. Section 4. **Description of Immediate Receiving Waters (Instructions Page 65)** Name of the immediate receiving waters: unnamed tributary of Spring Creek A. Receiving water type Identify the appropriate description of the receiving waters. X Stream Freshwater Swamp or Marsh Lake or Pond 1.7 Surface area, in acres: Click to enter text. Average depth of the entire water body, in feet: Click to enter text. Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text. Man-made Channel or Ditch Open Bay Tidal Stream, Bayou, or Marsh Other, specify: Click to enter text. B. Flow characteristics If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area upstream of the discharge. For new discharges, characterize the area downstream of the discharge (check one). \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.

C.	Down	stream perennial confluences		
		e names of all perennial streams tl tream of the discharge point.	hat joi	n the receiving water within three miles
	The u	nnamed tributary joins Spring Creek a	рргохі	mately 1 mile downstream
D.	Downs	stream characteristics		
		receiving water characteristics charge (e.g., natural or man-made dan		vithin three miles downstream of the nds, reservoirs, etc.)?
		Yes ⊠ No		
	If yes,	discuss how.		
	Click t	o enter text.		
E.		l dry weather characteristics	. 1 1	
		e general observations of the water n is intermittent or dry during normal		during normal dry weather conditions.
	Stream	is interimitient of dry during normal	ury we	samer conditions.
	Date a	nd time of observation: 6/12/2024	@ 11:1	5
	Was th	e water body influenced by storm	water 1	runoff during observations?
		Yes ⊠ No		
Se	ction	5. General Characteristic Page 66)	cs of	the Waterbody (Instructions
A.	Upstre	am influences		
		mmediate receiving water upstreanteed by any of the following? Checl		he discharge or proposed discharge site nat apply.
		Oil field activities	\boxtimes	Urban runoff
		Upstream discharges		Agricultural runoff
		Septic tanks		Other(s), specify: Click to enter text.

D.	wateri	body uses		
	Observ	ved or evidences of the following us	es. C	heck 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		
		one of the following that best descr rounding area.	ibes	the aesthetics of the receiving water and
		Wilderness: outstanding natural be clarity exceptional	auty	; usually wooded or unpastured area; water
		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	sthetics; cluttered; highly developed;

USGS Topographic Map

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



Proof of Payment

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

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.

	ization (Core Di	ata Form si		led.) nitted w	ith the p	orogram application	n.)	
Renewal (Core Data Form should by						with major		ent
2. Customer Reference Number (if iss			ink to search			Entity Reference		
CN 604062463	for CN or RI	N numbers in Registry**	RN 102343227					
SECTION II: Customer Info	ormation							
4. General Customer Information	5. Effective l	Date for Cu	ıstomer Info	rmatior	n Update	es (mm/dd/yyyy)		
☐ New Customer ☐Change in Legal Name (Verifiable wit	· 	•	istomer Infori State or Texas		troller of	•	Regulated E	Entity Ownership
The Customer Name submitted	here may b	e update	d automati	cally i	based	on what is cu	rrent and	active with the
Texas Secretary of State (SOS)	or Texas Co	omptrolle	r of Public	Acco	unts (CPA).		
6. Customer Legal Name (If an individua	l, print last name	first: eg: Doe	e, John)	<u>If</u>	new Cu	stomer, enter previ	ous Custome	er below:
Aqua Texas, Inc.								
7. TX SOS/CPA Filing Number 0800304878	8. TX State T 32014405		jits)	9	. Federa	al Tax ID (9 digits)	10. DUN	S Number (if applicable)
11. Type of Customer:	ion		Individual		Par	rtnership: 🔲 Gener	al 🔲 Limited	
Government:	☐ State ☐ Other		Sole Proprie	etorship		Other:		
12. Number of Employees ☐ 0-20 ☑ 21-100 ☐ 101-250	<u> </u>	☐ 501 a	ınd higher		3. Indep ☑ Yes	pendently Owned	and Opera	ted?
14. Customer Role (Proposed or Actual) -	- as it relates to ti	he Regulated	l Entity listed o	n this fo	rm. Pleas	se check one of the	following	
Owner Operational Licensee Response	tor onsible Party		Owner & Oper oluntary Clea		plicant	Other:		
	,							
1106 Clayton Lane		W						
1106 Clayton Lane		W						
1106 Clayton Lane		W State	TX	ZIP	7872	23	ZIP + 4	
15. Mailing Address:	, Suite 400V					23 s (if applicable)	ZIP + 4	
15. Mailing Address: City Austin 16. Country Mailing Information (if outsi	, Suite 400V	State	17.	E-Mail /	Address	s (if applicable) america.com		
15. Mailing Address: City Austin	, Suite 400V	State	17.	E-Mail /	Address	S (if applicable)		ole)
15. Mailing Address: City Austin 16. Country Mailing Information (if outsi	, Suite 400V	State	17.	E-Mail /	Address	s (if applicable) america.com	r (if applicat	ole)
15. Mailing Address: City Austin 16. Country Mailing Information (if outsi	ide USA)	State 19. Extens	17.	E-Mail /	Address	s (if applicable) america.com 20. Fax Number	r (if applicat	ole)
15. Mailing Address: City Austin 16. Country Mailing Information (if outsite	, Suite 400V	State 19. Extens mation	17. sw.	E-Mail /	Address Daquaa	s (if applicable) america.com 20. Fax Number	r (if applicat 4410	
15. Mailing Address: City Austin 16. Country Mailing Information (if outsin) 18. Telephone Number (512) 990-4400 SECTION III: Regulated Entity Information	, Suite 400V	State 19. Extens mation gulated Ent	ion or Code	TE-Mail / foltz@	Address aquaa	s (if applicable) america.com 20. Fax Number	r (if applicat 4410	
15. Mailing Address: City Austin 16. Country Mailing Information (if outsinus) 18. Telephone Number (512) 990-4400 ECTION III: Regulated Entity Information New Regulated Entity Update The Regulated Entity Name sub	ide USA) Intity Information (If 'New Regulated Emitted may	State 19. Extens mation gulated Entinity Name be updated	ion or Code	E-Mail / foltz@	Address aquaa this for	s (if applicable) america.com 20. Fax Number (512) 990- m should be according to the should be accor	r (if applicat 4410 mpanied by	a permit application)
15. Mailing Address: City Austin 16. Country Mailing Information (if outsin) 18. Telephone Number (512) 990-4400 ECTION III: Regulated Entity Information New Regulated Entity Update The Regulated Entity Name sub of organizational endings such	ntity Information (If 'New Region Compared to Regulated Emitted may as Inc, LP, Compared to LP	State 19. Extens mation gulated Entinity Name be updated or LLC).	ity" is selecte Updated in orde	E-Mail / foltz@ d below the to Re	Address aquas this form gulated eet TC	s (if applicable) america.com 20. Fax Number (512) 990- m should be according to the should be accor	r (if applicat 4410 mpanied by	a permit application)
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23. Street Addres	es of	16103	Bush	y Oaks '	Trai	1							
the Regulated Er													
(No PO Boxes)		City	Ma	agnolia		State	TX	ZIP	7	7355	ZIP+	4	
24. County		Montg	omery	У									
					ocati	on Descripti	on if no str	eet add	dress is	provided.			
25. Description to Physical Location													
26. Nearest City									Sta	ate		Vear	est ZIP Code
Maagnolia									TX	X		773	55
27. Latitude (N) I	n Decima	al:	30.	111681					de (W) lı	n Decimal:	95.719	686	5
Degrees		Minutes			Secono		Degree			Minutes			Seconds
30			06			42.05		-95			43		10.87
29. Primary SIC (Code (4 di	igits) 30	. Secoi	ndary SIC	Code	e (4 digits)	31. Primai (5 or 6 digits	_	CS Code		Secondary 6 digits)	NAI	CS Code
4952							221320						
33. What is the P						t repeat the SIC		ription.)					
Investor Own	ed Utii	ity prov	iding	water a	nd v	vastewater	service						
34. Mailing	.					11	06 Clayton	Lane,	Suite 40	00W			
Address:	'							,					
7.22.000		City		Austin		State	ТХ	ZII	>	78723	ZIP +	4	
35. E-Mail A	ddress:						swfoltz@	Daqua	america.	com			
36. 7	Telephor	ne Numbe	er			37. Extensio	n or Code			38. Fax N	ımber <i>(if a</i> j	plic	able)
	(512) 99	0-4400								(5	12) 990-44	10	
9. TCEQ Programs	and ID I	Numbers	Check a	all Programs	s and	write in the per	mits/registrat	ion num	bers that				submitted on this
89. TCEQ Programs orm. See the Core Dat	and ID I	Numbers	or additi	all Programs onal guidan	s and vice.	write in the per					d by the upda	ites s	submitted on this
9. TCEQ Programs orm. See the Core Dat	and ID I	Numbers structions f	or additi	all Programs onal guidan	s and once.					will be affecte	d by the upda	ites s	
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Plain Language Summary

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

Applicants should use this template to develop a plain language summary as required by 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 <u>30 TAC Section 39.426</u>, 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.

Aqua Texas, Inc. (CN 604062463) operates the Timberloch Estates Wastewater Treatment Plant (RN 102343227), an activated sludge process with nitrification operated in the complete mix mode. The facility is located at 16103 Bushy Oaks Trail, in Magnolia, Montgomery County, Texas 77355. This application is for a major amendment with renewal application to discharge a daily average flow of 130,000 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 bar screen, selector zone aeration basins, final clarifier, a sludge thickener, sludge digesters, chlorine contact chamber and effluent disk filters.

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.

Aqua Texas, Inc. (CN 604062463)) opera la Planta de Tratamiento de Aguas Residuales de Timberloch Estates (RN 102343227), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en 16103 Bushy Oaks Trail, en Magnolia, Condado de Montgomery, Texas 77355. Esta solicitud es para una enmienda importante con renovación aplicación para descargar a un flujo promedio diario de 130,000 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, zona selectora, balsas de aireación, clarificadore finale, espesador de lodos, digestores de lodos, cámara de contacto de cloro y filtros de disco para efluentes.

Public Involvement Plan

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

WQ0014007001 Aqua Texas, Inc. Timberloch Estates 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>		
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.
language notice is necessary. Flease provide the following information.
(City)
(County)
· · · · · · · · · · · · · · · · · · ·
(Census Tract)
Please indicate which of these three is the level used for gathering the following information.
City County Census Tract
(a) Percent of people over 25 years of age who at least graduated from high school
(b) Per capita income for population near the specified location
(c) Percent of minority population and percent of population by race within the specified location
(c) referred in minority population and percent of population by face within the specifica location
(d) Percent of Linguistically Isolated Households by language within the specified location
(e) Languages commonly spoken in area by percentage
(f) Community and/or Stakeholder Groups
(a) Historia muhlis interest ou involvement
(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)			
Tuble race (speery)			
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 Rosted on Commissioner's Internated Rotebase Website			
Posted on Commissioner's Integrated Database Website			
Mailed by TCEQ's Office of the Chief Clerk			
Other (specify)			

TCEQ-20960 (02-09-2023)

ATTACHMENT ADMIN.06 Affected Landowners Map and Table

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

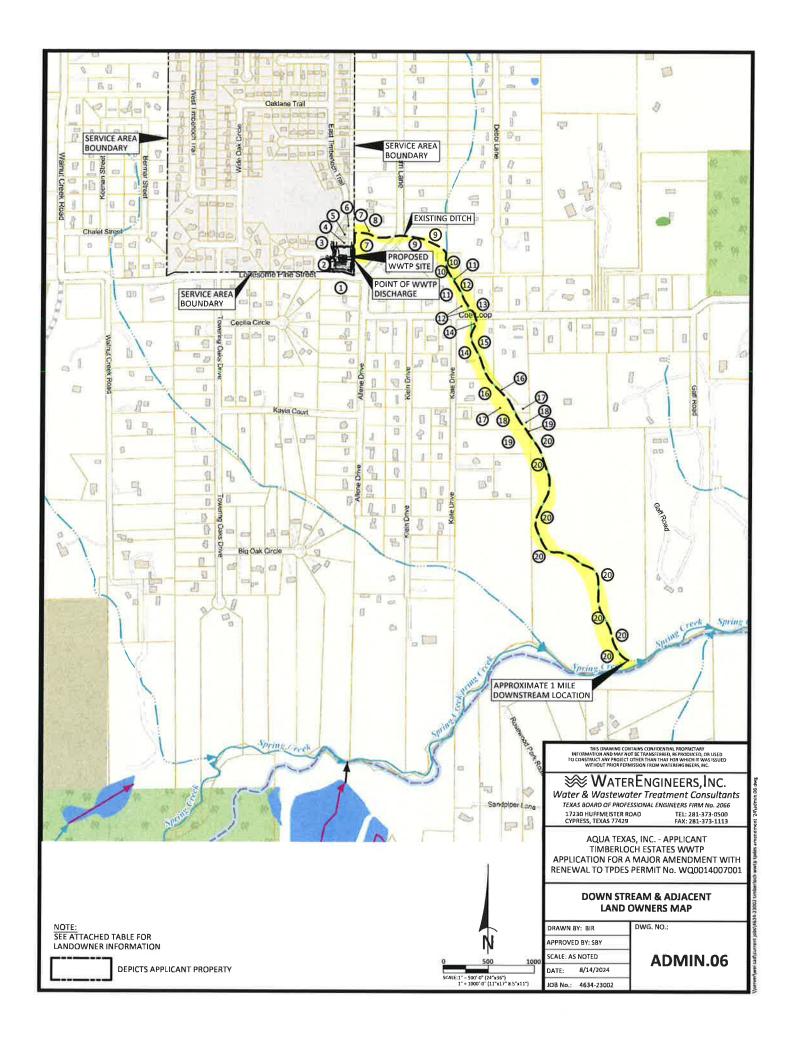


TABLE "ADMIN.06"

Aqua Texas, Inc. Timberloch Estates Wastewater Treatment Plant

Adjacent & Downstream Land Ownership Table

Source: Montgomery County Appraisal District

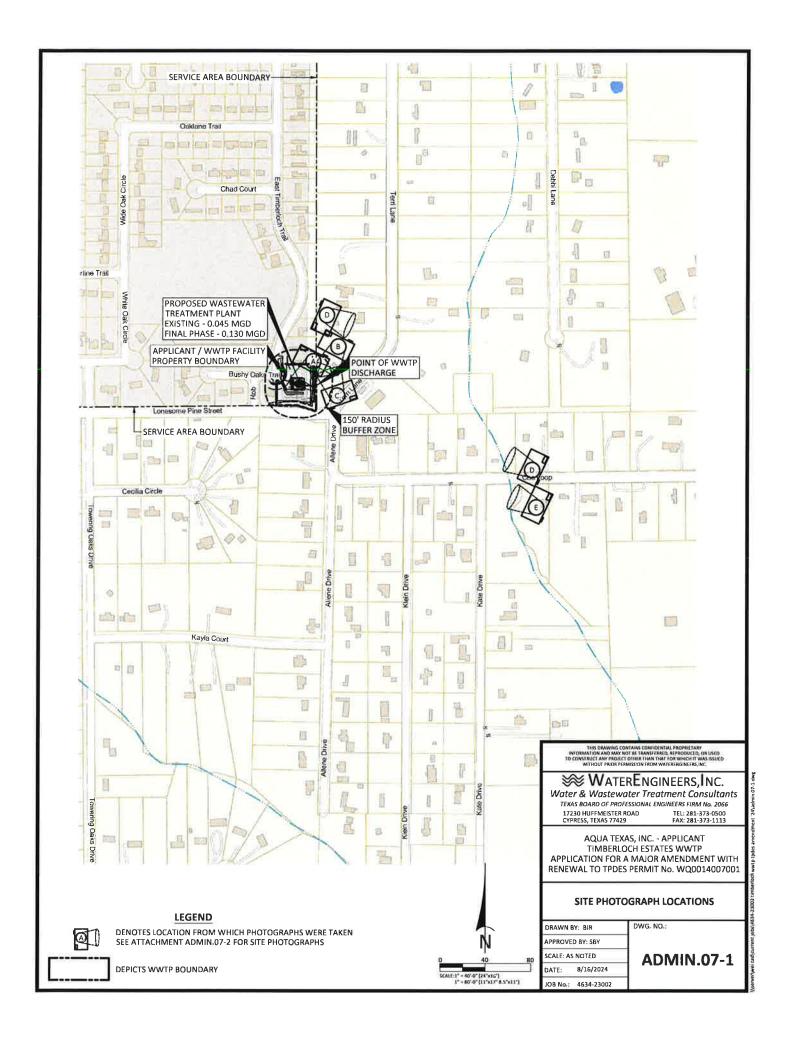
Tract No.	Title Owner & Address
(See Attachment "ADMIN.04" Map)	
1	ANDRES GUERRERO
	21502 PARKER ROAD
	TOMBALL TX 77377
2	RANDY & CARRI COX
	16115 BUSHY OAKS TRAIL
	MAGNOLIA TX 77355
	JOSE & YOLANDA SOTO
3	16114 BUSHY OAKS TRAIL
	MAGNOLIA TX 77355
	CARLOS VILLALABOS
4	4890 NW 61 ST CT
	OCALA FL 34482
	MIGUEL SANTOYO
5	19127 LILYWOOD SPRINGS
	KATY TX 77449
	GEORGE JOHNSON
6	31114 E TIMBERLOCH TRAIL
	MAGNOLIA TX 77355
	JOSE & MARIA TORRES
7	31107 TERRI LANE
	MAGNOLIA TX 77355
	COLONY RIDGE LAND LLC
8	P O BOX 279
	FRESNO TX 77545
	DAVID & MARIBEL RUIZ
9	31110 TERRI LANE
	MAGNOLIA TX 77355
10	STANLEY DEVELOPMENT CO
	1330 BLUE BELL ROAD
	HOUSTON TX 77038
11	MARIA MARIN
	16002 COE LOOP
	MAGNOLIA TX 77355
12	DANIEL SWANK
	15922 COE LOOP
	MAGNOLIA TX 77355
	EDWARD & JACKIE HOOTER
13	15910 COE LOOP

	MAGNOLIA TX 77355
	JIMMY PLOURDE
14	30902 KATE DRIVE
	MAGNOLIA TX 77355
	VICTORINO ZELAYA
15	1511 N SHEPHERD DRIVE
	HOUSTON TX 77008
	SUSAN ROGERS
16	30810 KATE DRIVE
	MAGNOLIA TX 77355
	JAMES WALLINGTON
17	30810 KATE DRIVE
	MAGNOLIA TX 77355
	RICHARD & LINDA COMEAUX
18	30800 KATE DRIVE
	MAGNOLIA TX 77355
	REBECCA GIFFEN
19	30718 KATE DRIVE
	MAGNOLIA TX 77355
	DOUGLAS EIBSEN
20	24522 CREEKVIEW
	SPRING TX 77389

ATTACHMENT ADMIN.07

Photographs

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



WASTEWATER TREATMENT PLANT SITE





POINT OF DISCHARGE WITH WWTP IN BACKGROUND AND LOOKING UPSTREAM OF POINT OF DISCHARGE





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

AQUA TEXAS, INC. - APPLICANT TIMBERLOCH ESTATES WWTP APPLICATION FOR A MAIOR AMENDMENT WITH RENEWAL TO TPDES PERMIT No. WQ0014007001

DWG. NO.:

DRAWN BY: BIR
APPROVED BY: SBY

SCALE: AS NOTED

DATE: 8/16/2024 JOB No.: 4634-23002 **ADMIN.07-2**

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

+ 11

DOWNSTREAM OF POINT OF DISCHARGE





APPROXIMATELY 500' DOWNSTREAM OF POINT OF DISCHARGE





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AQUA TEXAS, INC. - APPLICANT TIMBERLOCH ESTATES WWTP APPLICATION FOR A MAJOR AMENDMENT WITH RENEWAL TO TPDES PERMIT No. WQ0014007001

SITE PHOTOGRAPHS

DRAWN BY: BIR DWG. NO.:
APPROVED BY: SBY

SCALE: AS NOTED

DATE: 8/16/2024

JOB No.: 4634-23002

ADMIN.07-3

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

radicurrent jabs/46194-23002 timberfach weyt pipdes amendment 74/jadmin.07-2 de

NORTH SIDE OF COE LOOP - DOWNSTREAM OF POINT OF DISCHARGE





SOUTH SIDE OF COE LOOP - DOWNSTREAM OF POINT OF DISCHARGE





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WATER ENGINEERS, INC.

Water & Wastewater Treatment Consultants TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066 17230 HUFFMEISTER ROAD CYPRESS, TEXAS 77429

AQUA TEXAS, INC. - APPLICANT TIMBERLOCH ESTATES WWTP APPLICATION FOR A MAJOR AMENDMENT WITH RENEWAL TO TPDES PERMIT No. WQ0014007001

SITE PHOTOGRAPHS

DRAWN BY: BIR DWG, NO.: APPROVED BY: SBY

DATE:

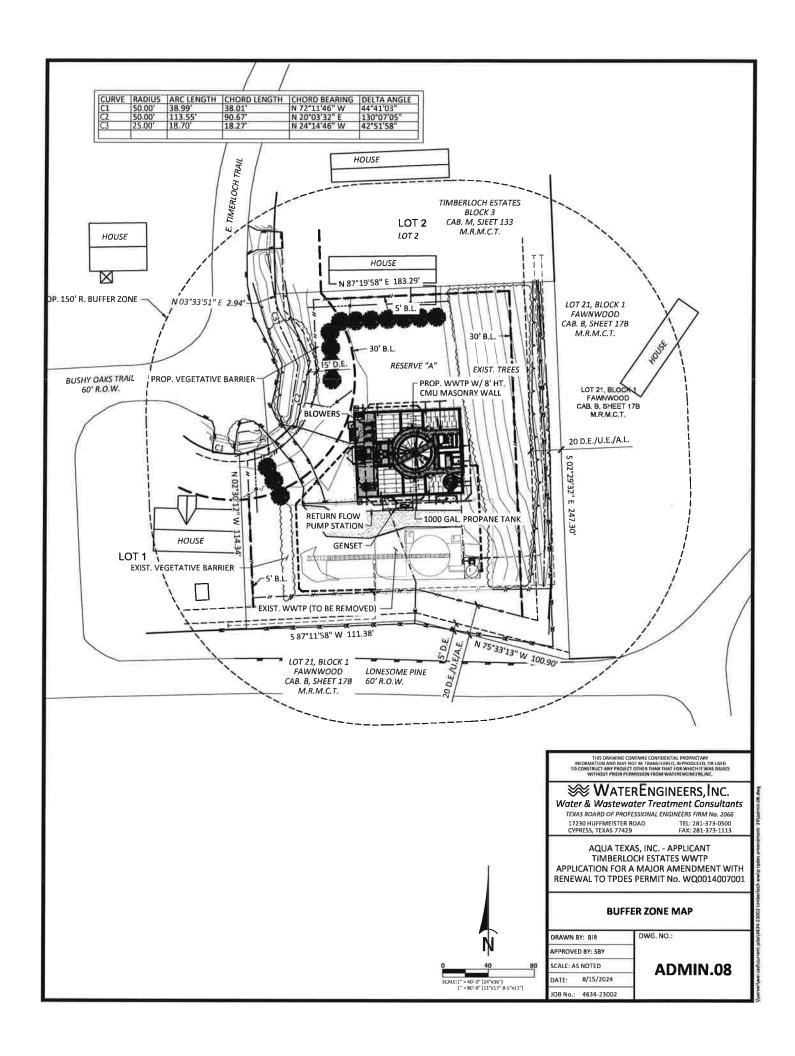
JOB No.: 4634-23002

SCALE: AS NOTED **ADMIN.07-4** B/16/2024

ATTACHMENT ADMIN.08

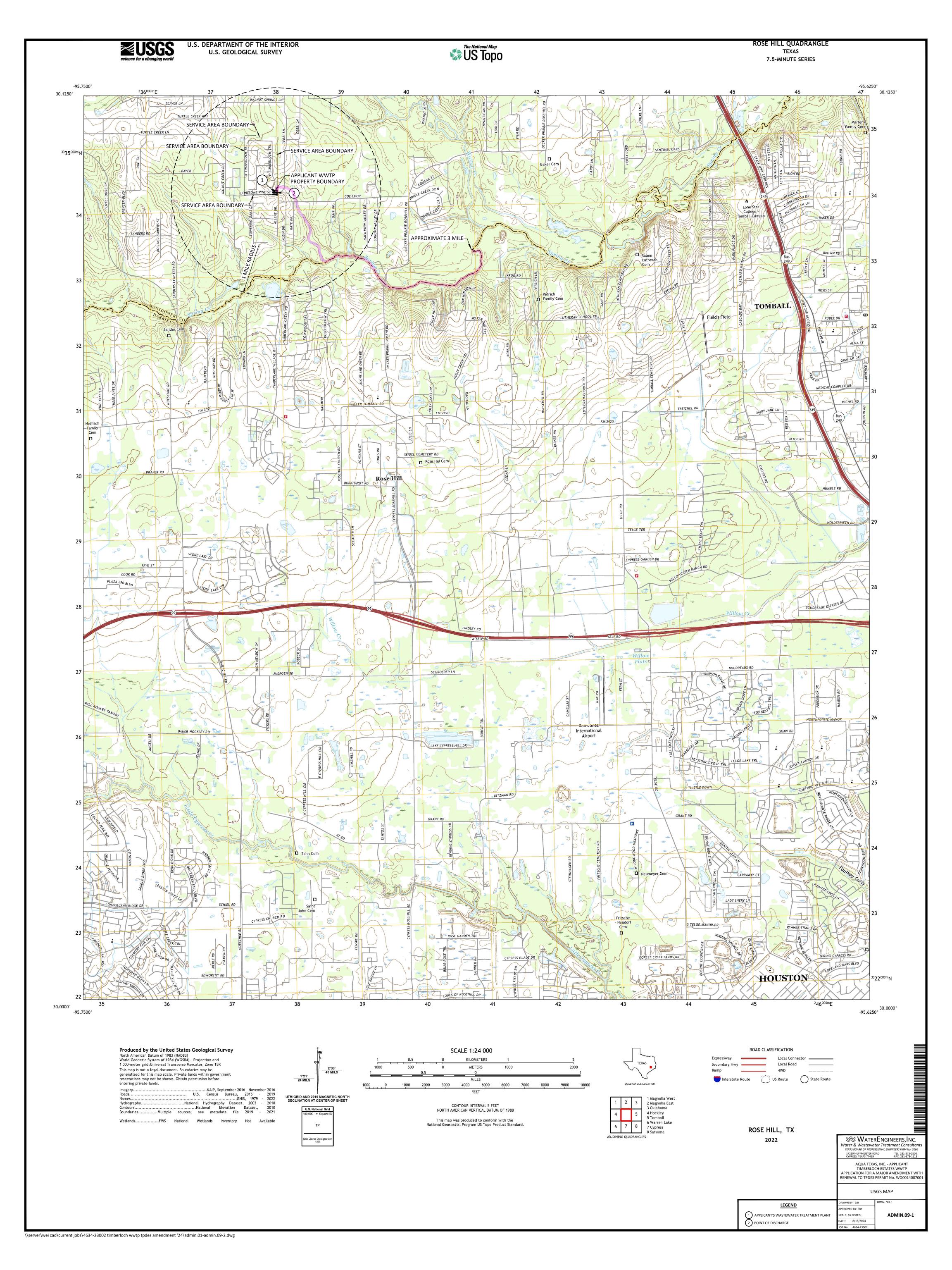
Buffer Zone Map

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



ATTACHMENT ADMIN.09 Supplemental Permit Information Form and USGS Map

(Reference Administrative Report Page 14)



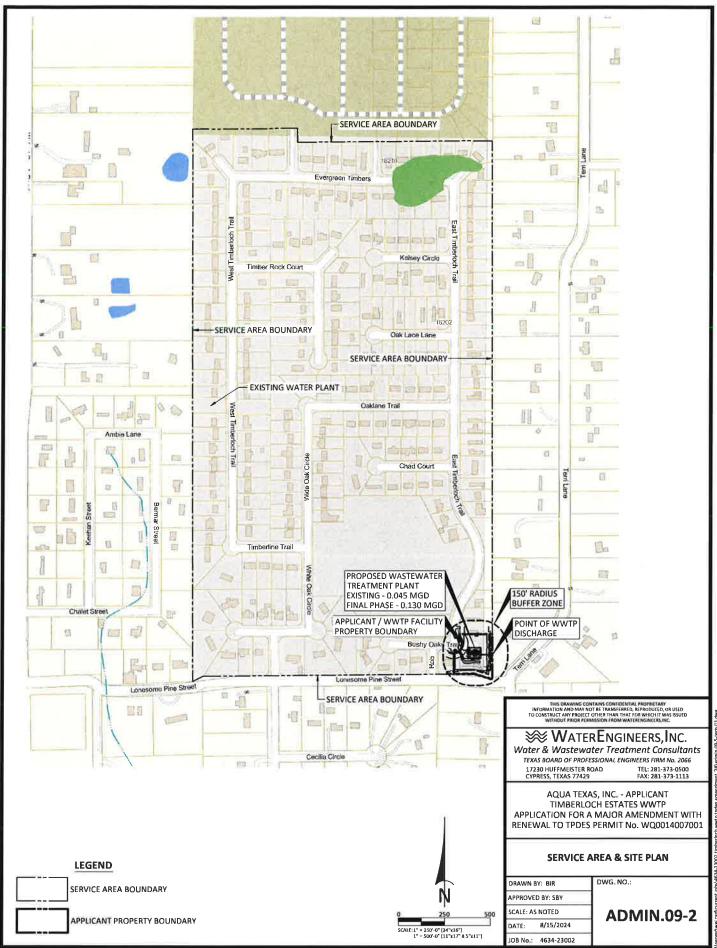
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCE	Q USE ONLY:
Appl	lication type:RenewalMajor AmendmentMinor AmendmentNew
Cour	nty: Segment Number:
Adm	nin Complete Date:
Agen	ncy Receiving SPIF:
	Texas Historical Commission U.S. Fish and Wildlife
ù	Texas Parks and Wildlife Department U.S. Army Corps of Engineers
This f	Form applies to TPDES permit applications only. (Instructions, Page 53)
our ag is need	lete this form as a separate document. TCEQ will mail a copy to each agency as required by greement with EPA. If any of the items are not completely addressed or further information ded, we will contact you to provide the information before issuing the permit. Address tem completely.
attach applica compl may b	It refer to your response to any item in the permit application form. Provide each ment for this form separately from the Administrative Report of the application. The ation will not be declared administratively complete without this SPIF form being leted in its entirety including all attachments. Questions or comments concerning this form e directed to the Water Quality Division's Application Review and Processing Team by at

	Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.
	Prefix (Mr., Ms., Miss): <u>Ms.</u>
	First and Last Name: Shelley Young
	Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u>
	Title: Engineer
	Mailing Address: 17230 Huffmeister Road, Suite A
	City, State, Zip Code: Cypress, TX 77429
	Phone No.: <u>281-373-0500</u> Ext.: Click here to enter text. Fax No.: <u>281-373-1113</u>
	E-mail Address: syoung@waterengineers.com
2.	List the county in which the facility is located: Montgomery
3.	If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.
	N/A
4.	Provide a description of the effluent discharge route. The discharge route must follow the flow
	of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
	the classified segment number.
	From the plant site to an unnamed drainage ditch; thence to an unnamed tributary of
	Spring Creek; thence to Spring Creek in Segment No. 1008 of the San Jacinto 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 original photographs of any structures 50 years or older on the property.
	Does your project involve any of the following? Check all that apply.
	Does your project involve any of the following? Check all that apply. ☑ Proposed access roads, utility lines, construction easements
	□ Proposed access roads, utility lines, construction easements
	 ☑ Proposed access roads, utility lines, construction easements ☐ Visual effects that could damage or detract from a historic property's integrity
	 ☑ 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

		Disturbance of vegetation or wetlands
1.	The pla	posed construction impact (surface acres to be impacted, depth of excavation, sealings, or other karst features): ant site encompasses approximately 1 acre. Excavation for the final phase is not ed to be more than 10'. Other disturbances will include minor clearing and grubbing
	of the	site.
2.		e existing disturbances, vegetation, and land use: s currently used as a wastewater treatment plant and has been since the early 2000s.
		WING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR NTS TO TPDES PERMITS
3.		struction 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.
		. 2 above



rt jobs\4634-23002 timberlach wwtp tpdes amendment '24\admin 09-5-tech 03 dwg

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

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

TIMBERLOCH WWTP 130,000 GPD	
Parameter	20.00
INFLUENT CONDITIONS No. of Residential Connections	Plant 1 520
Flow Per Connection, gpd	250
BOD, mg/l Total Calculated Daily Flow, gpd	300 130,000
Design Average Daily Flow, gpd	130,000
Ratio Average/Peak Flow	4.00
Peak 2-Hour Flow, gpd	520,000
Peak 2-Hour Flow, gpm BOD, lb/day	361 325
AERATED TANK CONFIGURATION	
Total Wall Height, ff	12.0
Freeboard, ft SELECTOR ZONE	1.5
Detention Time, Hrs	2.00
Required Volume, cu ft	1,448
Side Water Depth (Normal Flow) Required Area, sq ft	10.50 137.93
Actual Area Provided, sq ft	149.00
Actual Volume Provided, Cu Ft	1,565
Theoretical Detention @ Average Flow, Hrs.	2.16
Air Supply @ 20 scfm/1,000 cu ft, scfm ACTIVATED SLUDGE AERATION BASINS	31
Allow Aeration Basin Load, Lb BOD/1000 cu ft	35.00
Total Aeration Basin Volume Req'd, cu ft	9,293
Side Water Depth (Normal Flow)	10.36
Total Basin Area Req'd, sq ft Total Basin Area Provided, sq ft	897 986
Total Aeration Basin Volume, cu ft	10,215
Aeration Basin Loading, #BOD/1000 cu ft	31,8
Detention (@Qave), hours O2 Reg'd @ 2 2 # O2/lb BOD	14.1
Design Diffuser Air Flow/Unit Area, scfm/sf	716 2,50
Diffuser CW Eff @ Field Conditions, %/Ft Sub	1.70%
Diffuser Field Submergence, ft.	9.61
Diffuser CW Transfer Efficiency, % Correction Factor (Fine Bubble Diffusers)	16.3% 0.45
Diffuser Field Transfer Efficiency, %	7.35%
Required Air Flow Rate, scfm	392
Temp Adjustment Factor for 30 Def C	1.27
Temp Adjusted Air Flow Rate, scfm Diffuser active surface area, st/diffuser	497 2.54
Max. Air Flow Rate Per Diffuser Membrane, scfm	2.4
No. Diffusers Installed	40
Air Supply scfm/1000 cf	38
Side Water Depth,ft	10.15
Allowable Surface Overflow Rate @ Qp, gpd/sf	1,000
Diameter Based on OFR Criteria, ft	25.73
Minimum Detention @ Qp, hours Diameter Based on Min. Detention, ft	1.80 25.57
Minimum Clarifier Diameter, ft	25.73
Chosen Clarifier Diameter, ft	26.00
Settling Area, sq. ft. Total Volume, cu. ft	531
Avg. SOR, apd/sq ft	5,389 245
Peak SOR, gpd/sq ft	979
Avg. Detention, hr	7,44
Peak Detention, hr Return Sludge Flow, gpm (@400 gpd/sq ft)	1.86
Effluent Cloth Filters	147
No. of Filter Disks	2
Filtration Surface Area/Disk	53.8
Total Filtration Area, sq ft. Filtration Rate at Design Flow, gpm/sq, ft.	107.6 0.84
Filtration Rate at 2-Hr Peak Flow, gpm/sq. ft.	3.36
CHLORINE CONTACT CHAMBER	
Min Peak Flow Detention, min	1.062
Required Volume, cu ft Maximum Depth @ Qp. ft	1,062 6.64
Required Surface Area, sq ft	160
Actual Surface Area Provided, sq ft	202
Actual Volume, cu ft (Net of Effluent Chamber)	1,340
Detention @ Peak Flow, min. Air Supply Req'd, scfm (@ 10 scfm/1000 cu ft)	27.8
AEROBIC DIGESTION	
Allowable Load, cu ft/Lb BOD	20
Req'd Volume, cu ft Req'd Surface Area, sq ft	6,505 620
Actual Surface Area Provided, sq ft	619
Actual Volume in Two Basins, cu ft	6,500
Actual Loading, cu ft/# BOD	20.0
Aeration Supply Rate, scfm/1000 cu ft Total Digester Air Supply Req'd, scfm	25 162
No. Diffusers Installed	36
Air Flow Rate Per Diffuser, scfm	4.5
AIR SUPPLY BLOWERS	
Selector Zone Air Supply, scfm Aeration Process Air Supply, scfm	31 497
Skimmer Airlift Air Supply, scfm	5
RAS Airlift Air Supply, scfm	29
Digester Process Air Supply, scfm	162
Chlorine Contact Air Supply, scfm Total Air Supply Required, scfm	13 738
Number of Blowers	738
Capacity of Blowers, scfm	750

DESIGN FEATURES FOR RELIABILITY

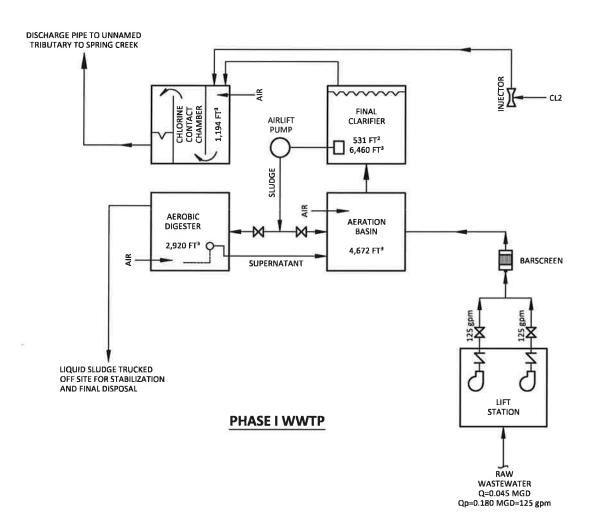
The Timberloch Estates Wastewater Treatment Plant facilities will be designed to provide a high degree of mechanical reliability consistent with TCEQ Design Criteria. The following describe design features that will be incorporated at the facilities to prevent bypassing or overflows of untreated wastewater:

- A. As infiltration/inflow is detected, measures to locate and repair issues will be undertaken.
- B. The electrical service that will serve the Timberloch Estates WWTP is reliable with most outages lasting less than 2-4 hours. However, Aqua Texas, Inc. 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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CYPRESS, TEXAS 77429 FAX: 281-373-113

AQUA TEXAS, INC. - APPLICANT TIMBERLOCH ESTATES WWTP APPLICATION FOR A MAJOR AMENDMENT WITH RENEWAL TO TPDES PERMIT No. WQ0014007001

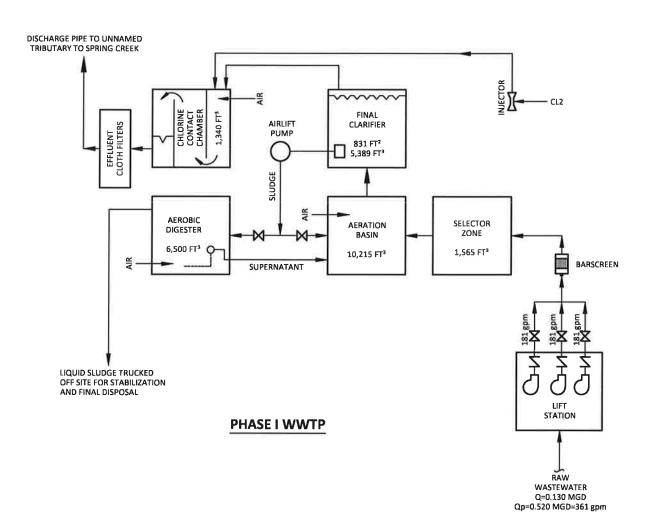
FLOW SCHEMATIC

DWG. NO.:

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

JOB No.: 4634-23002

TECH.02-1



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AQUA TEXAS, INC. - APPLICANT TIMBERLOCH ESTATES WWTP APPLICATION FOR A MAJOR AMENDMENT WITH RENEWAL TO TPDES PERMIT NO. WQ0014007001

FLOW SCHEMATIC

DWG. NO.:

DRAWN BY: BIR

APPROVED BY: SBY

SCALE: AS NOTED

DATE: 8/14/2024

JOB No.: 4634-23002

TECH.02-2

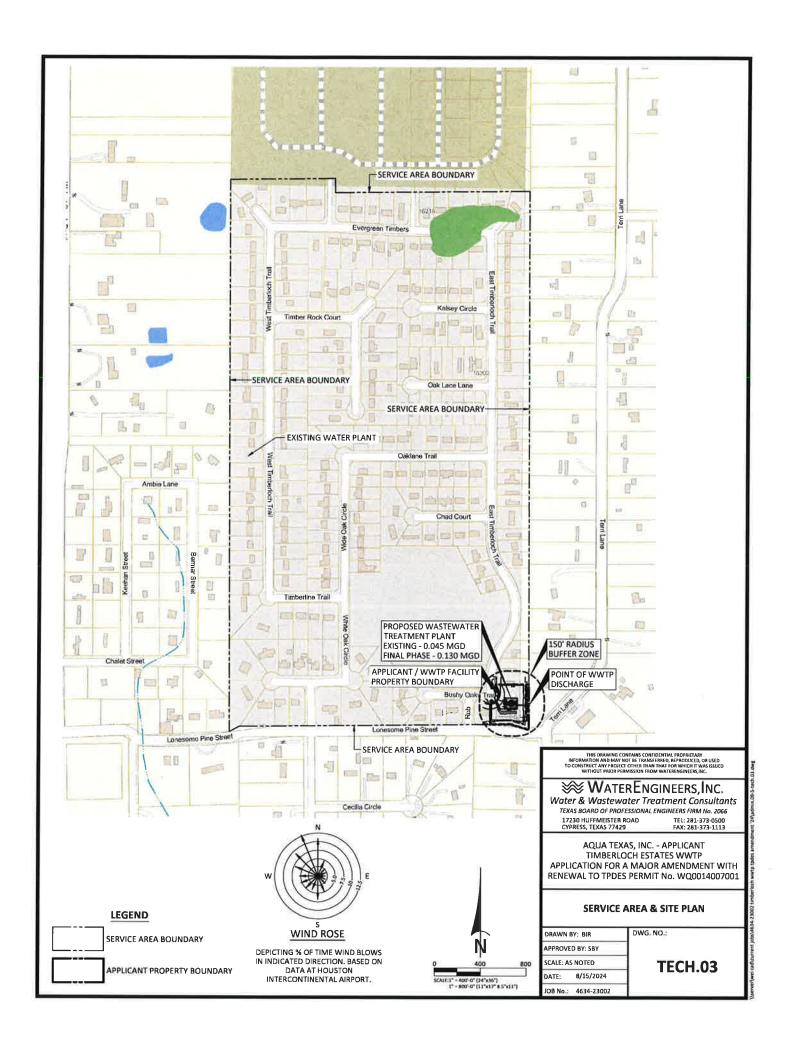
ATTACHMENT TECH.03

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 Timberloch 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 <u>Notes on Activated Sludge</u>, 1971, by Brian L. Goodman. Table TECH.04-01 shows the process design and sludge generation calculations for the final design flow of 130,000 gpd.

2. Dimensions and Capacities

In Final Phase treatment facility will have a digester tank with a volume of 6,500 cu. ft., a surface area of 620 sq. ft. and a 10.5 ft. side water depth. The digester will provide a total design flow loading of 21.8 cu. ft./1b BOD. The Final Phase digester will provide a total design flow loading of 20.0 cu, ft./1b BOD.

3. Sludge Generation Calculations

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

Phase	Solids @	Solids @	Solids @	Solids @
	100% Qavg,	75% Qavg,	50% Qavg,	25% Qavg,
	lb/day	lb/day	lb/day	lb/day
Final	222	167	111	56

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:

	Predicted Solids @100% Flow		Predicted Solids @75% Flow		Predicted		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
Final	9.5	3,422	13	3,514	19	3,426	38	3,428

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
Final	2.5	25,184	2.5	18,890	2.5	12,603	2.5	6,3.4

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 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS TIMBERLOCH WWTP

INFLUENT CONDITIONS				
Design Flow Rate, mgd 0.1300		Aeration Vo	l. cu ft	10,215
Infl. BOD, mg/l 300		Clarifier Diar		26
Infl. TSS, mg/l 200			Wall Depth, ft	10.15
Infl. VSS, mg/l 160			ace Area, sq ft	531
BOD Loading, lb/day 325		Clarifier Volu		5,389
BOD Load, #/1000 cu ft 31.8		Temperatur	•	20
505 20dd,		remperatur	o, acg o	20
Actual Plant Loading, %	100%	75.0%	50%	25.0%
Actual Flow Rate, mgd	0.130	0.098	0.065	0.033
BOD Loading, #/Day	325	244	163	81
Ret. Sludge Rate, gpd/sq ft	400	400	400	400
Ret. Sludge Flow, mgd	0.21	0.21	0.21	0.21
t = Aeration Time, days	0.588	0.784	1.176	2.351
ts = Sludge Age, Days	9.5	13.0	19.0	38.0
Km = BOD Removal Metabolic Facto	360	360	360	360
Ks = Synthesis Factor	250	250	250	250
Ke = Endogenous Metabolism Facto	0.25	0.18	0.13	0.06
F = Effl Soluble BOD	1.41	1.06	0.71	0.35
Ma = Active Mass	986	1,013	988	989
Me = Endogenous Mass	568	583	569	570
Mi = Inert Organic Mass	905	929	905	905
Mii = Inert Inorganic Mass	964	989	964	964
Mt = Total Mass, mg/l	3,422	3,514	3,426	3,428
Total Mass in Aeration Basin, Ib	2,181	2,239	2,183	2,185
Lb BOD/Lb MLSS/Day	0.149	0.109	0.074	0.037
Effl TSS, mg/l	7	7	7	7
Effl BOD, mg/l	3	2	2	2
Sludge Accumulation, lb/day	230	172	115	57
TSS Lost In Effluent, lb/day	7	6	4	2
Waste Sludge, lb/day	222	167	111	56
Return Sludge Conc, mg/l	5,517	5,128	4,475	3,953
Waste Sludge Conc, mg/l	5,517	5,128	4,475	3,953
Waste Sludge Flow, gpd	4,828	3,895	2,980	1,687
AEROBIC DIGESTER				
Volume, cu ft	6,500			
Design Loading, cu ft/lb BOD	19.98	26.64	39.96	79.93
Incoming Sludge Conc, mg/l	5,517	5,128	4,475	3,953
Thick Sludge Conc, mg/l	25,000	25,000	25,000	25,000
Detention, Days	45.63	60.86	91.16	182.21
Infl Total Solids, lb/day	222	167	111	56
Infl Active Mass, lb/day	64	48	32	16
Effl Active Mass, lb/Day	5	4	3	1
Active Mass Red., lb/day	47	35	24	12
Digester Effl Solids, lb/day	175	131	88	44
Sludge Disposed, lb/mg	1,346	1,347	1,348	1,348
Sludge Disposed, tons/mg	0.67	0.67	0.67	0.67
Sludge Hauled, gal/day	839	630	420	210
Sludge Hauled, gal/month	25,184	18,890	12,603	6,304
•	•	,		, •

ATTACHMENT TECH.05 Pollutant Analysis of Treated Effluent

(Reference Technical Report Page 9, Question 7)



Tel: (936) 321-6060 Email: lab@nwdls.com www. NWDLS.com TCEQ TX-C24-00185

Aqua TX 2211 Louetta Road Spring, TX 77388

Reported:

07/08/2024 15:49

Sample Results (Continued)

Client Sample ID: Lab Sample ID:

Outfall 001

24F5060-01

Sample Matrix:

Waste Water

Date Collected:

06/27/2024 7:16

Timberloch Estates - Non Potable -	Weekly	980

Collected by: Cesar Guevara

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Cher	nistry									
SM 5210 B	Carbonaceous BOD (CBOD)	Α	<2.03U, J4	mg/L	13514	2.03	2.03	BHF3947	07/03/2024 08:40	BAK
EPA 350.1	Ammonia as N	Α	0.118	mg/L	1	0.0140	0.0400	BHF3917	07/01/2024 16:01	AMM
SM 2540 D	Residue-nonfilterable (TSS)	Α	3.26	mg/L	1	1.00	1.00	BHF3950	07/01/2024 09:31	JRU
Field										
Hach 10360	DO Field	N	7.53	mg/L	1	1.00	1.00	BHF4052	06/27/2024 07:16	CGJ
Calc	Flow Field	N	0.0328	MGD	1	0.00	0.00	BHF4052	06/27/2024 07:16	CGJ
SM 4500-H+ B	рH	A	6.63	pH Units	1	1.00	1.00	BHF4052	06/27/2024 07:16	CGJ

A = Accredited, N = Not Accredited or Accreditation not available





Timberloch Estates - Permit Renewal

Aqua TX 2211 Louetta Road Spring, TX 77388

Reported:

08/05/2024 10:38

Sample Results

Client Sample ID: Lab Sample ID:

Outfall 001

24G4243-01

Sample Matrix:

Waste Water

Date Collected:

07/22/2024 10:00

[none]

Collected by:

Ray Mitchell

							-			
Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Chem	istry									
SM 2320 B	Alkalinity as CaCO3	Α	113	mg/L	1	10.0	10.0	BHG2701	07/23/2024 12:20	FPN
SM 5210 B	Carbonaceous BOD (CBOD)	Α	3.53 FF	mg/L	13514	2.03	2.03	BHG2646	07/27/2024 09:10	MAH
EPA 300.0	Chloride	Α	72.2	mg/L	10	0.345	10.0	BHG2700	07/22/2024 19:25	AGZ
SM 2510 B	Conductivity	Α	647	umhos/cm @ 25 °C	1	2.00	2.00	BHG2701	07/23/2024 12:20	FPN
EPA 350.1	Ammonia as N	Α	<0.0400U	mg/L	1	0.0140	0.0400	BHG2848	07/24/2024 10:17	AMM
EPA 300.0	Nitrate as N	Α	11.4	mg/L	10	0.142	1.00	BHG2700	07/22/2024 19:25	AGZ
EPA 1664A	n-Hexane Extractable Material (O&G)	Α	<5.00U	mg/L	1	5.00	5.00	BHG3363	07/26/2024 09:05	IDC
EPA 300.0	Suifate	Α	21.5	mg/L	1	0.0341	1.00	BHG2700	07/22/2024 19:05	AGZ
SM 2540 C	Residue-filterable (TDS)	Α	414	mg/L	1	10.0	10.0	BHG2733	07/25/2024 09:10	BP
SM 4500-NH3 C	Total Kjeldahl Nitrogen - (TKN)	Α	<1.00U	mg/L	1	0.100	1.00	BHG3651	07/30/2024 09:46	ENR
EPA 365.1	Total Phosphorus	Α	4.28	mg/L	1	0.117	0.200	BHG3026	07/25/2024 15:40	GJG
SM 2540 D	Residue-nonfilterable (TSS)	Α	<1.00U	mg/L	1	1.00	1.00	BHG2720	07/24/2024 11:19	BP
Microbiology										
SM 9223 B (Colilert Quanti-Tray)	Escherichia coli (E. coli)	Α	<1.00U	MPN/100 mL	1	1.00	1.00	BHG2666	07/23/2024 13:30	KIO
Field						×				
Hach 10360	DO Field	N	7.12	mg/L	1	1.00	1.00	BHG2708	07/22/2024 10:00	RAM
Calc	Flow Field	N	0.0189	MGD	1	0.00	0.00	BHG2708	07/22/2024 10:00	RAM
SM 4500-H+ B	рН	Α	7.18	pH Units @ 25 °C	1	1.00	1.00	BHG2708	07/22/2024 10:00	RAM
SM 4500-Cl G	Total Residual Chlorine	Α	4.40	mg/L	1	0.25	0.25	BHG2708	07/22/2024 10:00	RAM

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Reported: 08/05/2024 10:38

Quality Control

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
·	Nesult	-Quui	LIIIIL	Jilla	CC4CI	Nesult	/UNLC	Linits	NFD.	Littit
Batch: BHG2646 - CBOD-5210										
LCS (BHG2646-BS1)				F	Prepared: 7/22,	/2024 Analyze	d: 7/27/202	4		
Carbonaceous BOD (CBOD)	228			mg/L	198		115	85-115		
Duplicate (BHG2646-DUP1)		Source: 2	4G0070-02	F	Prepared: 7/22,	2024 Analyze	d: 7/27/202	4		
Carbonaceous BOD (CBOD)	4.50		2.40	mg/L		4.34			3.71	40
Duplicate (BHG2646-DUP2)		Source: 2	4G4248-02	F	Prepared: 7/22,	/2024 Analyze	d: 7/27/202	4		
Carbonaceous BOD (CBOD)	3.52		2.40	mg/L		5.04			35.5	40
Batch: BHG2700 - EPA 300.0										
Duplicate (BHG2700-DUP1)		Source: 2	4G4243-01		Prepared 8	k Analyzed: 7/	22/2024			
Nitrate as N	11.2		1.00	mg/L		11.4			1.68	15
Sulfate	21.5		1.00	mg/L		21.5			0.0232	15
Chloride	70.4		10.0	mg/L		72.2			2.54	15
Duplicate (BHG2700-DUP2)		Source: 2	4G0185-01		Prepared 8	k Analyzed: 7/	23/2024			
Sulfate	140		10.0	mg/L		140			0.00716	15
Nitrate as N	17.2		1.00	mg/L		17.2			0.465	15
Chloride	207		10.0	mg/L		206			0.232	15
MRL Check (BHG2700-MRL1)					Prepared 8	k Analyzed: 7/	22/2024			
Chloride	1.10		1.00	mg/L	1.00		110	50-150		
Nitrate as N	0.110		0.100	mg/L	0.100		110	50-150		
Sulfate	1.00		1.00	mg/L	1.00		100	50-150		
Matrix Spike (BHG2700-MS1)		Source: 2	4G4243-01		Prepared 8	Analyzed: 7/	22/2024			
Sulfate	44.0		1.11	mg/L	22.2	21.5	101	80-120		
Nitrate as N	13.6		1.11	mg/L	2.22	11.4	102	80-120		
Chloride	89.1	J1	11.1	mg/L	11.1	72.2	153	80-120		

A = Accredited, N = Not Accredited or Accreditation not available





Reported: 08/05/2024 10:38

Quality Control (Continued)

			Reporting		Spike	Source		%REC		RPD
Analyte	Result	Qual	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
Batch: BHG2700 - EPA 300.0 (Co	ntinued)									
Matrix Spike (BHG2700-MS2)	-	Source: 2	4G0185-01		Prepared 8	& Analyzed: 7	/23/2024			
Nitrate as N	19.1		1.11	mg/L	2.22	17.2	88.3	80-120		
Sulfate	159		11.1	mg/L	22.2	140	86.2	80-120		
Chloride	225	J1	11.1	mg/L	11.1	206	166	80-120		
Batch: BHG2701 - Alkalinity										
Blank (BHG2701-BLK1)					Prepared 8	& Analyzed: 7	/23/2024			
Conductivity	<2.00	U	2.00	umhos/cm		,,	,,			
				@ 25 °C						
LCS (BHG2701-BS1)					Prepared 8	& Analyzed: 7	/23/2024			
Conductivity	1420			umhos/cm @ 25 °C	1410		101	90-110		
QCS (BHG2701-BS2)					Prepared 8	k Analyzed: 7,	/23/2024			
Conductivity	508			umhos/cm	500		102	90-110		
				@ 25 °C						
LCS (BHG2701-BS4)					Prepared 8	k Analyzed: 7,	/23/2024			
Alkalinity as CaCO3	104			mg/L	100		104	90-110		
Duplicate (BHG2701-DUP1)		Source: 2	4G0884-01		Prepared 8	k Analyzed: 7,	/23/2024			
Conductivity	50900		2.00	umhos/cm @ 25 ℃		50400			0.987	15
Alkalinity as CaCO3	131		10.0	mg/L		131			0.535	15
Duplicate (BHG2701-DUP2)		Source: 2	4G0901-01		Prepared 8	k Analyzed: 7/	/23/2024			
Conductivity	3240		2.00	umhos/cm		3200			1.24	15
Alkalinih, as CaCO2			100	@ 25 °C		24.4			2.00	4-
Alkalinity as CaCO3	221		10.0	mg/L		214			2.98	15

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Reported:

08/05/2024 10:38

Quality Control (Continued)

		Reporting		Spike	Source		%REC		RPD
Analyte	Result Qual	Limit	Units	Level	Result	%REC	Limits	RPD	Limi
Batch: BHG2720 - TSS									
Blank (BHG2720-BLK1)			Р	repared: 7/23	/2024 Analyze	d: 7/24/202	1		
Residue-nonfilterable (TSS)	<1.00 U	1.00	mg/L						
LCS (BHG2720-BS1)			Р	repared: 7/23	/2024 Analyze	d: 7/24/202	1		
Residue-nonfilterable (TSS)	98.4	1.00	mg/L	100		98.4	85-115		
Duplicate (BHG2720-DUP1)	Source: 2	4G4247-02	Р	repared: 7/23	/2024 Analyze	d: 7/24/202	ı		
Residue-nonfilterable (TSS)	<1.00 U	1.00	mg/L		<1.00				10
Duplicate (BHG2720-DUP2)	Source: 2	4G4412-02	Р	repared: 7/23,	/2024 Analyze	d: 7/24/2024	ŀ		
Residue-nonfilterable (TSS)	3.79 J1	1.00	mg/L		3.16			18.2	10
, ,	3.77 31	1100	mg/L		3.10			10,2	10
	<10.0 U	10.0		repared: 7/23,		d: 7/25/202 <i>4</i>	ŀ	TOIL	10
Blank (BHG2733-BLK1) Residue-filterable (TDS)			P mg/L	repared: 7/23, repared: 7/23,	/2024 Analyze			10.2	10
Blank (BHG2733-BLK1) Residue-filterable (TDS)			P mg/L		/2024 Analyze			1012	10
LCS (BHG2733-BS1)	<10.0 U	10.0	P mg/L P mg/L	repared: 7/23,	/2024 Analyze /2024 Analyze	d: 7/25/2024 95.3	90-110	2012	





Reported:

08/05/2024 10:38

Quality Control (Continued)

			Reporting		Spike	Source		%REC		RPD
Analyte	Result	Qual	Limit	Units	Level	Result	%REC	Limits	RPD	Limi
Batch: BHG2848 - NH3-N SEAL-3	50.1 (Col	ntinued)								
Matrix Spike (BHG2848-MS2)		Source: 24	4G4336-02		Prepared 8	k Analyzed: 7,	/24/2024			
Ammonia as N	0.382	31	0.0400	mg/L	0.200	0.213	84.5	90-110		
Matrix Spike Dup (BHG2848-MSD1)		Source: 24	4G4481-02		Prepared 8	k Analyzed: 7,	/24/2024			
Ammonia as N	0.492		0.0800	mg/L	0.200	0.297	97.5	90-110	0.407	20
Matrix Spike Dup (BHG2848-MSD2)		Source: 24	4G4336-02		Prepared 8	k Analyzed: 7,	/24/2024			
Ammonia as N	0.388	J1	0.0400	mg/L	0.200	0.213	87.5	90-110	1.56	20
Batch: BHG3026 - Phosphorus EF	A 365.1									
LCS (BHG3026-BS1)				P	repared: 7/24	/2024 Analyze	d: 7/25/2024	ŀ		
Total Phosphorus	0.256		0.0100	mg/L	0.250		102	90-110		
Matrix Spike (BHG3026-MS1)		Source: 24	IG3994-02	Pi	repared: 7/24/	2024 Analyze	ed: 7/25/2024	ŀ		
Matrix Spike (BildS020-MS1)										
Total Phosphorus	11.8		0.200	mg/L	5.00	6.34	108	80-120		
Total Phosphorus	11.8	Source: 24	0.200 IG4179-02		5.00 repared: 7/24/					
Total Phosphorus	11.8	Source: 24								
Total Phosphorus Matrix Spike (BHG3026-MS2) Total Phosphorus			IG4179-02	Pi mg/L	repared: 7/24/	/2024 Analyze 6.16	ed: 7/25/2024 98.4	80-120		
Total Phosphorus Matrix Spike (BHG3026-MS2) Total Phosphorus			1G4179-02 0.200	Pi mg/L	repared: 7/24/ 5.00	/2024 Analyze 6.16	ed: 7/25/2024 98.4	80-120	1.01	20
Total Phosphorus Matrix Spike (BHG3026-MS2) Total Phosphorus Matrix Spike Dup (BHG3026-MSD1)	11.1	Source: 24	4G4179-02 0.200 4G3994-02	Pr mg/L Pr mg/L	repared: 7/24/ 5.00 repared: 7/24/	72024 Analyze 6.16 72024 Analyze 6.34	98.4 ed: 7/25/2024 ed: 7/25/2024 106	80-120 80-120	1.01	20

A = Accredited, N = Not Accredited or Accreditation not available





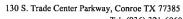
Reported:

08/05/2024 10:38

Quality Control (Continued)

A 1 .		Reporting		Spike	Source		%REC		RPD
Analyte	Result Qual	Limit	Units	Level	Result	%REC	Limits	RPD	Limi
Batch: BHG3363 - EPA 1664 (C	Continued)								
LCS (BHG3363-BS1)				Prepared 8	k Analyzed: 7/	26/2024			
n-Hexane Extractable Material (O&G)	39.8	5.00	mg/L	40.0		99.4	77.5-114.5		
LCS Dup (BHG3363-BSD1)				Prepared 8	& Analyzed: 7/	26/2024			
n-Hexane Extractable Material (O&G)	35.8	5.00	mg/L	40.0		89.6	77.5-114.5	10.4	20
Matrix Spike (BHG3363-MS1)	Source	e: 24G3925-01		Prepared 8	k Analyzed: 7/	26/2024			
n-Hexane Extractable Material (O&G)	114 J1	5.00	mg/L	160	52.7	38.6	77.5-114.5		
Batch: BHG3651 - TKN T									
Batch: BHG3651 - TKN T Blank (BHG3651-BLK1) Total Kjeldahl Nitrogen - (TKN)	<1.00 U	1.00	F mg/L	Prepared: 7/29	/2024 Analyze	d: 7/30/202	<u>!</u> 4		
Blank (BHG3651-BLK1)	<1.00 U	1.00	mg/L	Prepared: 7/29, Prepared: 7/29,					
Blank (BHG3651-BLK1) Total Kjeldahl Nitrogen - (TKN)	<1.00 U	1.00	mg/L						
Blank (BHG3651-BLK1) Total Kjeldahl Nitrogen - (TKN) LCS (BHG3651-BS1)	2.69		mg/L F mg/L	Prepared: 7/29	/2024 Analyze	d: 7/30/202 85.6	24 85-115		
Blank (BHG3651-BLK1) Total Kjeldahl Nitrogen - (TKN) LCS (BHG3651-BS1) Total Kjeldahl Nitrogen - (TKN)	2.69	1.00	mg/L F mg/L	Prepared: 7/29, 3.14	/2024 Analyze	d: 7/30/202 85.6	24 85-115	100	20
Blank (BHG3651-BLK1) Total Kjeldahl Nitrogen - (TKN) LCS (BHG3651-BS1) Total Kjeldahl Nitrogen - (TKN) Duplicate (BHG3651-DUP1)	2.69 Source 0.336 J1, U	1.00 a: 24G0637-02	mg/L F mg/L F mg/L	Prepared: 7/29, 3.14	/2024 Analyze /2024 Analyze 0.112	d: 7/30/202 85.6 d: 7/30/202	85-115 24	100	20

^{*} A = Accredited, N = Not Accredited or Accreditation not available





Tel: (936) 321-6060 Email: lab@nwdls.com www. NWDLS.com TCEQ TX-C24-00185

Aqua TX 2211 Louetta Road Spring, TX 77388

Reported:

08/05/2024 10:38

Quality Control (Continued)

Microbiology

		Reporting		Spike	Source		%REC		RPD
Analyte	Result Qual	Limit	Units	Level	Result	%REC	Limits	RPD	Limit

Batch: BHG2666 - TC EC Quantitray

Blank (BHG2666-BLK1)

Prepared: 7/22/2024 Analyzed: 7/23/2024

Escherichia coli (E. coli)

<1.00 U

1.00 MPN/100

mL

Duplicate (BHG2666-DUP1)

Prepared: 7/22/2024 Analyzed: 7/23/2024

Escherichia coli (E. coli)

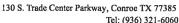
Source: 24G4264-01 15.8

20.6

1.00 MPN/100 mL

26.4 200

A = Accredited, N = Not Accredited or Accreditation not available





Tel: (936) 321-6060 Email: lab@nwdls.com www. NWDLS.com TCEQ TX-C24-00185

Reported:

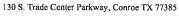
08/05/2024 10:38

Sample Condition Checklist

Work Order: 24G4243

Check Points

No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted





Definition

Tel: (936) 321-6060 Email: lab@nwdls.com www. NWDLS.com TCEQ TX-C24-00185

Aqua TX 2211 Louetta Road Spring, TX 77388

<u>Item</u>

Reported:

08/05/2024 10:38

Term and Qualifier Definitions

FF	The blank for biochemical oxygen demand depleted more than the method limit of 0.20 mg/l.
J1	Estimated value - The reported value is outside the established quality control criteria for accuracy and/or precision.
U	Non-detected compound.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated
*	A = Accredited, N = Not Accredited or Accreditation not available
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
MDL	Method Detection Limit - The minimum concentration of a substance (or analyte) that can be measured and reported with 99% confidence that the
	analyte concentration is greater than zero. Based on standard deviation of replicate spiked samples take through all steps of the analytical
	procedure following 40 CFR Part 136 Appendix B.
SDL	Sample Detection Limit - The minimum concentration of a substance (analyte) that can be measured and reported with 99% confidence that the
	analyte concentration is greater than zero. The SDL is an adjusted limit thus sample specific and accounts for preparation weights and volumes,
	dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MDL = SDL.
MRL	Method Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and
	without qualification (i.e. J-flagged). The MRL is at or above the lowest calibration standard.
LRL	Laboratory Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and
LINE	
	without qualification (i.e. J-flagged). The LRL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions,

and moisture content of soil/sediments. If there are no sample specific parameters, the MRL = LRL.



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S, Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com TCEQ TX-C24-00185



Lab PM : Deena Higginbotham Aqua TX Greg Smith 2211 Louetta Road Spring, TX 77388 Phone: (832) 608-3956		Project Name: Timberloo Project Comments: 16103 B Randy Cox - 832-381-4146C DO reading must be recorded 4.0 Call Office Mark out Duplicated Outfall si	Bushy Oaks Trail, Mag Combo 1942 Key # 04 d before 9am If CL2 n	nolia 77355 164 ot between 1.0 -		Schedule Comments
Sample ID Collection Point	Date/Tim		Sample Type	Container	Analysis/Preservation	Field Results

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preserv	ation	Field Results	~1.10
24G4243-01	Outfall 001		712212024 /1000	AQ Grab	A HDPE 250mL B HDPE 250mL C HDPE 1L D HDPE 250mL H2SO4 E HDPE 250mL H2SO4 E HDPE 250mL F Glass Wide 1L w/ Teflon-lined Lid G HDPE S250mL Na2S2O3 H HDPE 250mL I HDPE 250mL H2SO4 J HDPE 250mL H2SO4 K HDPE 1L	C EC-9223 O&G-1664 Alkalinity-2320 CBOD-5210 Chloride IC 300.0 Conductivity-2510 NH3-N SEAL-350.1 Nitrate as N IC 300.0 Sulfate IC 300.0 TDS-2540 TKN T-4500 C Total Phosphorus-365. TSS-2540	Na2S2O3 <10°C HCI 4°C 4°C 4°C 4°C 4°C H2SO4 4°C 4°C 4°C H2SO4 4°C 1-H2SO4 4°C	DO Field Flow 90° Weir pH Field Total Chlorine Residual WW Field	548

Field Remarks:		le le	ab Preservation: H2 Circle and Vrite ID Below)	SO4 HNO3 N	NaOH Olher:	
Sample (Signature) Mt Che //	Relinquished By: (Signature)		Date/Time	Received By: (Signature)		Date/Time
Printhame MitcHe 11	Relinquished By: (Signature)		Date/Time	Received By: (Signature)		Date/Time
NWDL5	Relinguished To Lab By; (Signature)	Ċ	7/22/24/3	Received for Laboratory By: (Signature)	JAU	7/22/24
Custody Seal: Yes / No Container Inlact: Yes / No	COC Labels Agree: Yes / No Appropriate Containers: Yes / No	Appropriate Volume: Yes Coalers Intact: Yes	No /	eceived on Ice: Yes / No amples Accepted: Yes / No	Temperature: Thermometer ID:	°C

Tomball

wko_NWDLS_COC_LS Revision 4.1 Effective: 2/17/2022

Page 11 of 11



Tel: (936) 321-6060 Email: lab@nwdls.com www. NWDLS.com TCEQ TX-C24-00185

Aqua TX 2211 Louetta Road Spring, TX 77388

Reported:

07/08/2024 15:49

Sample Results

Client Sample ID: Lab Sample ID: Outfall 001

Sample Matrix:

Waste Water

24F1944-01

Date Collected:

06/06/2024 7:10

Timberloch Estates - Non Potable - Monthly

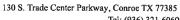
980

Collected by:

Fernando Alvarez

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Cher	mistry									
SM 5210 B	Carbonaceous BOD (CBOD)	Α	3.18	mg/L	13514	2.03	2.03	BHF0902	06/12/2024 10:16	MAH
EPA 350.1	Ammonia as N	Α	0.0600	mg/L	1	0.0140	0.0400	BHF1033	06/09/2024 14:10	GJG
SM 2540 D	Residue-nonfilterable (TSS)	Α	2.00	mg/L	1	1.00	1.00	BHF1115	06/10/2024 10:43	ВР
Field										
Hach 10360	DO Field	N	8.39	mg/L	1	1.00	1.00	BHF1059	06/06/2024 07:10	FCA
Calc	Flow Field	N	0.0514	MGD	1	0.00	0.00	BHF1059	06/06/2024 07:10	FCA
SM 4500-H+ B	pH	Α	7.18	pH Units	1	1.00	1.00	BHF1059	06/06/2024 07:10	FCA

^{*} A = Accredited, N = Not Accredited or Accreditation not available





Tel: (936) 321-6060 Email: lab@nwdls.com www, NWDLS.com TCEQ TX-C24-00185

Aqua TX 2211 Louetta Road Spring, TX 77388

Reported:

07/08/2024 15:49

Sample Results (Continued)

Client Sample ID: Lab Sample ID:

Outfall 001

Timberloch Estates - Non Potable - Weekly

24F2877-01

Sample Matrix:

Waste Water

Date Collected:

06/13/2024 6:40

980

Collected by:

Fernando Alvarez

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Cher	nistry									
SM 5210 B	Carbonaceous BOD (CBOD)	Α	2.52	mg/L	13514	2.03	2.03	BHF2082	06/19/2024 09:52	MAH
EPA 350.1	Ammonia as N	Α	0.0410	mg/L	1	0.0140	0.0400	BHF1941	06/14/2024 09:54	AMM
SM 2540 D	Residue-nonfilterable (TSS)	Α	3.37	mg/L	1	1.00	1.00	BHF1959	06/14/2024 10:44	JRU
Field										
Hach 10360	DO Field	N	8.01	mg/L	1	1.00	1.00	BHF1963	06/13/2024 06:40	FCA
Calc	Flow Field	N	0.0514	MGD	1	0.00	0.00	BHF1963	06/13/2024 06:40	FCA
SM 4500-H+ B	pH	Α	7.23	pH Units	1	1.00	1.00	BHF1963	06/13/2024 06:40	FCA

A = Accredited, N = Not Accredited or Accreditation not available





Reported:

07/08/2024 15:49

Sample Results (Continued)

980

Client Sample ID: Lab Sample ID: Outfall 001 24F3874-01

Timberloch Estates - Non Potable - Weekly

001

Sample Matrix:

Waste Water

Date Collected:

06/20/2024 6:35

Collected by:

Fernando Alvarez

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Chen	nistry									
SM 5210 B	Carbonaceous BOD (CBOD)	A	3.53 FF	mg/L	13514	2.03	2.03	BHF3071	06/26/2024 11:14	MAH
EPA 350.1	Ammonia as N	Α	0.108	mg/L	1	0.0140	0.0400	BHF3025	06/24/2024 11:45	AMM
SM 2540 D	Residue-nonfilterable (TSS)	Α	4.32	mg/L	1	1.00	1.00	BHF3072	06/24/2024 11:20	BP
Field										
Hach 10360	DO Field	N	8.21	mg/L	1	1.00	1.00	BHF3114	06/20/2024 06:35	FCA
Calc	Flow Field	N	0.105	MGD	1	0.00	0.00	BHF3114	06/20/2024 06:35	FCA
SM 4500-H+ B	pH	Α	6.99	pH Units	1	1.00	1.00	BHF3114	06/20/2024 06:35	FCA

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ANDRES GUERRERO 21502 PARKER ROAD TOMBALL TX 77377

RANDY & CARRI COX 16115 BUSHY OAKS TRAIL MAGNOLIA TX 77355 JOSE & YOLANDA SOTO 16114 BUSHY OAKS TRAIL MAGNOLIA TX 77355

CARLOS VILLALABOS 4890 NW 61ST CT OCALA FL 34482 MIGUEL SANTOYO 19127 LILYWOOD SPRINGS KATY TX 77449 GEORGE JOHNSON 31114 E TIMBERLOCH TRAIL MAGNOLIA TX 77355

JOSE & MARIA TORRES 31107 TERRI LANE MAGNOLIA TX 77355 COLONY RIDGE LAND LLC P O BOX 279 FRESNO TX 77545 DAVID & MARIBEL RUIZ 31110 TERRI LANE MAGNOLIA TX 77355

STANLEY DEVELOPMENT CO 1330 BLUE BELL ROAD HOUSTON TX 77038 MARIA MARIN 16002 COE LOOP MAGNOLIA TX 77355 DANIEL SWANK 15922 COE LOOP MAGNOLIA TX 77355

EDWARD & JACKIE HOOTER 15910 COE LOOP MAGNOLIA TX 77355 JIMMY PLOURDE 30902 KATE DRIVE MAGNOLIA TX 77355 VICTORINO ZELAYA 1511 N SHEPHERD DRIVE HOUSTON TX 77008

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REBECCA GIFFEN 30718 KATE DRIVE MAGNOLIA TX 77355

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