

#### This file contains the following documents:

- 1. Summary of application (in plain language)
  - English
  - Alternative Language (Spanish)
- 2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
  - English
  - Alternative Language (Spanish)
- 3. Application materials



#### Este archivo contiene los siguientes documentos:

- 1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
  - Inglés
  - Idioma alternativo (español)
- 2. Primer aviso (NORI, por sus siglas en inglés)
  - Inglés
  - Idioma alternativo (español)
- 3. Solicitud original

#### **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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

#### PERMIT NO. WQ0015432001

**APPLICATION.** Utilities Investment Company, Inc. P.O. Box 279, New Waverly, Texas 77358, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0015432001 (EPA I.D. No. TX0136816) to authorize an increase to the discharge of treated wastewater to a volume not to exceed a daily average flow of 650,000 gallons per day. The domestic wastewater treatment facility is located approximately 2.8 miles west northwest of the intersection of Foley Road and Farm-to-Market Road 2100, near the city of Crosby, in Harris County, Texas 77532. The discharge route is from the plant site to a series of detention ponds; thence to an unnanmed tributary; thence to Lake Houston. TCEQ received this application on November 14, 2024. The permit application will be available for viewing and copying at Atascocita Branch Library, reference desk, 19520 Pinehurst Trail Drive, Humble, in Harris County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.124444,29.955555&level=18

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: <a href="https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications">https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</a>. El aviso de idioma alternativo en español está disponible en <a href="https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications">https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</a>.

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 <a href="https://www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. 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 <a href="https://www14.tceq.texas.gov/epic/eComment/">https://www14.tceq.texas.gov/epic/eComment/</a>, 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 <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Utilities Investment Company, Inc at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers, Inc., at 281-373-0500.

Issuance Date: December 5, 2024

#### Comisión de Calidad Ambiental del Estado de Texas



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

#### PERMISO PROPUESTO NO. WQ0015432001

**SOLICITUD.** Utilities Investment Company, Inc. P.O. Box 279, New Waverly, Tejas 77358, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0015432001 (EPA I.D. No. TX0136816) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) autorizar un aumento en la descarga de aguas residuales tratadas a un volumen que no exceda un flujo promedio diario de 650,000 galones por día. La planta está ubicada aproximadamente 2.8 millas oeste noroeste de la interseccion de la Camino Foley y Camino Granja-a-Mercado 2100, cerca la ciudad de Crosby, en el Condado de Harris, Tejas 77532. La ruta de descarga es del sitio de la planta a. La TCEQ recibió esta solicitud el 14 de noviembre de 2024. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca Sucursal de Atascocita, 19520 Pinehurst Trail Drive, Humble, en Condado de Harris, Tejas antes de la fecha de publicación de este aviso en el periódico. La solicitud, incluidas las actualizaciones y los avisos asociados, stan disponibles electrónicamente en la siguiente pagina web: https://www.tceg.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=-95.124444,29.955555&level=18

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

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

**OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.** Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos

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

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

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

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

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

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

También se puede obtener información adicional del Utilities Investment Company, Inc. a la dirección indicada arriba o llamando a Ms. Shelley Young, P.E., WaterEngineers, Inc., al 281-373-0500.

Fecha de emission: 5 de diciembre de 2024



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Utilities Investment Company, Inc. (CN600633093) operates the Sundance Cove Wastewater Treatment Plant (RN108871542), an activated sludge process with nitrification operated in the complete mix mode. The facility is located at approximately 2.8 miles west northwest of the intersection of Foley Road and Farm-to-Market Road 2100, in Crosby, Harris County, Texas 77532. This application for a renewal with major amendment with application to discharge a daily average flow of 650,000 gallons per day of treated domestic wastewater..

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-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 is treated by an activated sludge process plant and the treatment units include a bar screen, anoxic zone, aeration basins, a final clarifier, sludge digesters, and a chlorine contact chamber. Dechlorination will be added in the final phase.

### 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.

Utilities Investment Company, Inc.. (CN600633093) opera la Planta de Tratamiento de Aguas Residuales de Sundance Cove (RN 108871542), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en aproximadamente 2.8 milas oeste noroeste de la interseccion de Camino Foley y Camino Granja-a-Mercado 2100, en Crosby, Condado de Harris, Texas 77532. Esta solicitud es para una renovación con enmienda importante aplicación para descargar a un flujo promedio diario de 650,000 galones por día de aguas residuales domésticas tratadas.

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

#### 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 12, 2024

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

Re: Utilities Investment Company, Inc.

Major Amendment with Renewal to TPDES Permit No. WQ0015432001

Sundance Cove Wastewater Treatment Plant in Harris County

Dear Sir/Ms:

Enclosed please find the original and one copy of the Application for a renewal to Texas Pollution Discharge Elimination System Permit No. WQ0015432001 for the Sundance Cove Wastewater Treatment Plant in Harris County.

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

Sincerely,

WATERENGINEERS, INC.

Shelley Young, P.E.

Encl: As noted

## APPLICATION FOR A RENEWAL TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT NO. WQ0015432001

#### **FOR**

#### SUNDANCE COVE WASTEWATER TREATMENT PLANT

UTILITIES INVESTMENT COMPANY, INC. P. O. BOX 279 NEW WAVERLY, TX 77358

#### 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 RENEWAL WITH MAJOR AMENDMENT TO TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT NO. WQ0015432001

FOR

#### **SUNDANCE COVE**

#### WASTEWATER TREATMENT PLANT

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#### STORM/SS/O4 STORM

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

#### Complete and submit this checklist with the application.

APPLICANT NAME: <u>Utilities Investment Company, Inc.</u>
PERMIT NUMBER (If new, leave blank): WQ00 <u>15432001</u>

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

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

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



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

#### Section 1. Application Fees (Instructions Page 26)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 □	\$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	<b>\$1,650.00</b> ⊠	<b>\$1,615.00</b> □
≥1.0 MGD	\$2,050.00 <b>□</b>	\$2,015.00
Minor Amendment (for any	flow) \$150.00 🗆	

Pay	ment	Informa	ation:
ray	ment	TH OT THE	auvii.

Mailed Check/Money Order Number: 1456

Check/Money Order Amount: \$1,650.00

Name Printed on Check: WaterEngineers, Inc.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes  $\square$ 

#### Section 2. Type of Application (Instructions Page 26)

Che	heck the box next to the appropriate authorization type.				
	Publicly-Owned Domestic Wastewater				
$\boxtimes$	Privately-Owned Domestic Wastewater				
	Conventional Wastewater Treatment				
Che ⊠	ck the box next to the appropriate facility status.  Active $\Box$ Inactive				
	□ ⊠ □ Che				

C.	Che	eck the box next to the appropriate permit typ	e.	
	$\boxtimes$	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 <u>without</u> Renewal		Minor Amendment without Renewal
		Renewal without changes		Minor Modification of permit
e.		amendments or modifications, describe the p 25 mgd, increase final phase to 0.650 mgd	ropo	osed changes: <u>Add Interim II Phase of</u>
f.	For	existing permits:		
	Peri	mit Number: WQ00 <u>15432001</u>		
	EPA	I.D. (TPDES only): TX <u>0136816</u>		
	Exp	iration Date: <u>May 8, 2025</u>		
C				Ca Assaliassa Informati
26		on 3 Facility Owner (Applicant) a	$\mathbf{n}$	t a-ambileann intarmation

### 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?

Utilities Investment Company, 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 <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a>

CN: 600633093

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: Marsh, Shannon

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?

Click to enter text.

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

legal documents forming the entity.)

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

#### C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. ADMIN.o3

#### Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Ms.

Last Name, First Name: Young, Shelley

Title: Engineer

Credential: P.E.

Organization Name: WaterEngineers, Inc.

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

Phone No.: 281-373-0500

E-mail Address: <a href="mailto:syoung@waterengineers.com">syoung@waterengineers.com</a>

Check one or both:

 $\boxtimes$ **Administrative Contact**  Technical Contact

**B.** Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

E-mail Address: Click to enter text.

Check one or both:

Administrative Contact **Technical Contact** 

#### Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr.

Last Name, First Name: Marsh, Shannon

Title: President

Credential: Click to enter text.

Organization Name: Utilities Investment Company, Inc.

Mailing Address: P.O. Box 279

City, State, Zip Code: New Waverly, TX 77358

Phone No.: 936-344-8014 E-mail Address: marshwaterman@aol.com

B. Prefix: Ms. Last Name, First Name: Marsh, Tracy

Title: <u>Treasurer</u> Credential: Click to enter text.

Organization Name: <u>Utilities Investment Company, Inc.</u>

Mailing Address: P.O. Box 279 City, State, Zip Code: New Waverly, TX 77358

Phone No.: 936-344-8014 E-mail Address: marshwaterman@aol.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: Ms. Last Name, First Name: Marsh, Shannon

Title: Office Manager Credential: Click to enter text.

Organization Name: Utilities Investment Company, Inc.

Mailing Address: P.O. Box 279 City, State, Zip Code: New Waverly, TX 77358

Phone No.: 936-344-8014 E-mail Address: marshwaterman@aol.com

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

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

Prefix: Mr. Last Name, First Name: Marsh, Shannon

Title: President Credential: Click to enter text.

Organization Name: <u>Utilities Investment Company</u>, Inc.

Mailing Address: P.O. Box 279 City, State, Zip Code: New Waverly, TX 77358

Phone No.: 936-344-8014 E-mail Address: marshwaterman@aol.com

#### Section 8. Public Notice Information (Instructions Page 27)

#### A. Individual Publishing the Notices

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

Title: Engineer Credential: P.E.

Organization Name: WaterEngineers, Inc.

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

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

В.		Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package				
	In	dicate by a check mark the preferred method for receiving the first notice and instructions				
		E-mail Address				
		Fax				
		Regular Mail				
C.	Co	ontact permit to be listed in the Notices				
	Pre	efix: <u>Ms.</u> Last Name, First Name: <u>Young, Shelley</u>				
	Tit	tle: <u>Engineer</u> Credential: <u>P.E.</u>				
	Or	ganization Name: WaterEngineers, Inc.				
	Ma	ailing Address: 17230 Huffmeister Rd, Ste A City, State, Zip Code: Cypress, TX 77429				
	Ph	one No.: <u>281-373-0500</u> E-mail Address: <u>syoung@waterengineers.com</u>				
D.	Pu	blic Viewing Information				
		the facility or outfall is located in more than one county, a public viewing place for each unty must be provided.				
	Pu	blic building name: Atascocita Branch Library				
	Lo	cation within the building: <u>Reference Desk</u>				
	Ph	ysical Address of Building: <u>19520 Pinehurst Trail Drive</u>				
	Cit	ty: <u>Atascocita</u> County: <u>Harris</u>				
	Co	ntact (Last Name, First Name): <u>Mary Rudrow</u>				
	Ph	one No.: <u>832-927-5560</u> Ext.: Click to enter text.				
E.	Bil	ingual Notice Requirements				
This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.						
	be	is section of the application is only used to determine if alternative language notices will needed. Complete instructions on publishing the alternative language notices will be in ur public notice package.				
	Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.					
	1.	Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?				
		⊠ Yes □ No				
		If <b>no</b> , publication of an alternative language notice is not required; <b>skip to</b> Section 9 below.				
	2.	Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?				
		⊠ Yes □ No				

	3.	Do the location		these	e schools attend a bilingual education program at another
			Yes	$\boxtimes$	No
	4.				uired to provide a bilingual education program but the school has rement under 19 TAC §89.1205(g)?
			Yes		No
	5.				<b>uestion 1, 2, 3, or 4</b> , public notices in an alternative language are se is required by the bilingual program? Spanish
F.	Pla	in Lang	guage Summ	ary T	Template
	Co	mplete	the Plain Lan	iguag	ge Summary (TCEQ Form 20972) and include as an attachment.
	At	tachme	nt: <u>ADMIN.o</u> 2	4	
G.	Pu	blic Inv	olvement Pl	an Fo	orm
	Co	mplete	the Public In	volve	ement Plan Form (TCEQ Form 20960) for each application for a
	ne	w perm	it or major a	ımen	dment to a permit and include as an attachment.
	Atı	tachmei	nt: <u>N/A</u>		
So	cti	on 9.	Dogulat	od E	Entity and Permitted Site Information (Instructions
36	Cu	on 9.	Page 29		and refinited site information (mistractions
A.				egula	ated by TCEQ, provide the Regulated Entity Number (RN) issued to
			TCEQ's Cent		Registry at <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a> to determine if ed by TCEQ.
B.	Na	me of p	roject or site	(the	name known by the community where located):
	<u>Sur</u>	<u>ıdance C</u>	ove WWTP		
C.	Ow	ner of t	reatment fac	cility:	Utilities Investment Company, Inc.
	Ow	nership	of Facility:		Public ⊠ Private □ Both □ Federal
D.	Ow	ner of l	and where tr	eatm	nent facility is or will be:
	Pre	fix: <u>Mr.</u>			Last Name, First Name: Marsh, Shannon
	Tit	le: <u>Presi</u>	<u>dent</u>		Credential: Click to enter text.
	Org	ganizati	on Name: <u>Ut</u>	ilities	Investment Company, Inc.
	Ma	iling Ad	dress: <u>P.O. B</u>	ox 27	City, State, Zip Code: New Waverly, TX 77358
	Pho	one No.:	936-344-801	4	E-mail Address: marshwaterman@aol.com
					same person as the facility owner or co-applicant, attach a lease l easement. See instructions.
		Attachi	ment: Click t	o ent	er 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.
Se	ection 10. TPDES Discharg	ge Information (Instructions Page 31)
		ge Information (Instructions Page 31) ity location in the existing permit accurate?
	Is the wastewater treatment facil  ☑ Yes □ No	
	Is the wastewater treatment facil  ☑ Yes □ No	ity location in the existing permit accurate?
A.	Is the wastewater treatment facil  ☑ Yes □ No  If no, or a new permit application	ity location in the existing permit accurate?
A.	Is the wastewater treatment facil  ☑ Yes □ No  If no, or a new permit application	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?  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 arge route to the nearest classified segment as defined in 30 and; thence to an unnamed tributary; thence to Lake Houston
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 and; thence to an unnamed tributary; thence to Lake Houston River Basin
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 ond; thence to an unnamed tributary; thence to Lake Houston 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 and; thence to an unnamed tributary; thence to Lake Houston River Basin  /are located: Harris discharge to a city, county, or state highway right-of-way, or

E. Owner of effluent disposal site:

	If <b>yes</b> , indicate by a check mark if:
	☐ Authorization granted ☐ Authorization pending
	For <b>new and amendment</b> 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 <b>no, or a new or amendment permit application</b> , provide an accurate description of the disposal site location:
	Click to enter text.
В.	City nearest the disposal site: Click to enter text.
	County in which the disposal site is located: Click to enter text.
	For <b>TLAPs</b> , describe the routing of effluent from the treatment facility to the disposal site:
	Click to enter text.
Е.	For <b>TLAPs</b> , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.
Se	ction 12. Miscellaneous Information (Instructions Page 32)
	Is the facility located on or does the treated effluent cross American Indian Land?
	☐ Yes ☐ No
В.	If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?
	□ Yes □ No ☒ Not Applicable
	If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.
	Click to enter text.

C.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?				
		Yes		No	
				on formerly employed by the TCEQ who represented your company a regarding the application: Click to enter text.	nd
D.	Do you	owe any	fees	to the TCEQ?	
		Yes	$\boxtimes$	No	
	If yes,	provide t	he fo	ollowing information:	
	Acc	ount nur	nber:	Click to enter text.	
	Am	ount pas	t due	: Click to enter text.	
E.	Do you	owe any	pena	alties to the TCEQ?	
		Yes	$\boxtimes$	No	
	If yes,	please pr	ovide	e the following information:	
	Enfo	orcement	orde	er number: Click to enter text.	
	Am	ount pas	t due	: Click to enter text.	
Se	ection	13. At	tach	nments (Instructions Page 33)	
				nments (Instructions Page 33) ents are included with the Administrative Report. Check all that apply	7:
	dicate w	hich atta agreeme	chme nt or		7:
Ind	dicate wi Lease locate	hich atta agreeme ed or the	chme nt or efflu	ents are included with the Administrative Report. Check all that apply deed recorded easement, if the land where the treatment facility is	7:
Ind	dicate will be a controlled to the controlled to	hich attace agreemed or the hal full-si Applicant Treatmer Labeled pHighlight Onsite se Effluent on the high and hall mile race	chme nt or efflu ze US t's pr nt fact coint ed di wage dispo futur dius i owns	ents are included with the Administrative Report. Check all that apply deed recorded easement, if the land where the treatment facility is ent disposal site are not owned by the applicant or co-applicant.	7:
Ind	dicate will be a control of the cont	hich attace agreemed or the nal full-si Applicant Treatmer Labeled pHighlight Onsite se Effluent on the nal mile race and all ponds	chme nt or efflu ze US t's pr nt fact coint ed di wage dispo futur dius i owns	ents are included with the Administrative Report. Check all that apply deed recorded easement, if the land where the treatment facility is ent disposal site are not owned by the applicant or co-applicant. GGS Topographic Map with the following information: operty boundary ility boundary of discharge for each discharge point (TPDES only) ischarge route for each discharge point (TPDES only) is sludge disposal site (if applicable) sal site boundaries (TLAP only) the construction (if applicable) information	7:

#### Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0015432001

Applicant: <u>Utilities Investment Company, Inc.</u>

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 o	r printed): <u>Shannon Marsh</u>
-------------------------	----------------------------------

Signatory title: President

Signature:	5		Date:	10/22/24
	(Use blue ink)	247		

on this 22 day of October , 20 24.

My commission expires on the day of October , 20 35.

Shaw Kay felley Notary Public

/

County, Texas

[SEAL]

SHARON KAY KELLEY
Notary Public, State of Texas
Comm. Expires 10-28-2025
Notary ID 125478883

#### DOMESTIC WASTEWATER PERMIT APPLICATION **ADMINISTRATIVE REPORT 1.0**

The following information is required for new and amendment applications.

A.

#### Section 1. Affected Landowner Information (Instructions Page 36)

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

	If <b>ye</b> land	es, provide the location and foreseeable impacts and effects this application has on the
		ck to enter text.
Se	ectio	n 2. Original Photographs (Instructions Page 38)
Pr	ovide	original ground level photographs. Indicate with checkmarks that the following
ını		At least one original photograph of the recovery and all tweety out on it least in
		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	n 3. Buffer Zone Map (Instructions Page 38)
	Buffe infor	er zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following mation. The applicant's property line and the buffer zone line may be distinguished by g dashes or symbols and appropriate labels.
В.		The applicant's property boundary; The required buffer zone; and Each treatment unit; and The distance from each treatment unit to the property boundaries.  er zone compliance method. Indicate how the buffer zone requirements will be met. k all that apply.
	⊠ ⊠	11 /
		•
	200	
C	Lineur	
C.		itable site characteristics. Does the facility comply with the requirements regarding itable site characteristic found in 30 TAC § 309.13(a) through (d)?
	$\boxtimes$	I 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

# COMMISSION OF THE PARTY OF THE

#### 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>0.195</u>

2-Hr Peak Flow (MGD): 0.780

Estimated construction start date: skipped

Estimated waste disposal start date: skipped

#### **B.** Interim II Phase

Design Flow (MGD): <u>0.325</u>

2-Hr Peak Flow (MGD): 1.300

Estimated construction start date: existing

Estimated waste disposal start date: existing

#### C. Final Phase

Design Flow (MGD): <u>0.650</u>

2-Hr Peak Flow (MGD): 2.600

Estimated construction start date: O2 2028

Estimated waste disposal start date: Q2 2029

#### **D.** Current Operating Phase

Provide the startup date of the facility: <u>Click to enter text.</u>

#### 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.

Flow enters the activated sludge with nitrification process through a coarse bar screen, thence to the anoxic zone; thence to the aeration basins, 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 anoxic zone or wasted to the digesters. The final phase will be an exact replication of the existing phase, with the addition of a flow splitter to split flow 50%-50%

#### **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)
Anoxic Zone/Selector Basin	Existing-1/Final-2	372 sq. ft. x 10.5' SWD
Aeration Basins	2 / 4	797 sq. ft. x 10.5' SWD
Aeration Basins	2 / 4	535 sq. ft. x 10.5' SWD
Clarifier	1/2	40' diam x 10.5' SWD
Chlorine Contact	1/2	327 sq. ft. x 8.5' SWD
Digester	2 / 4	872 sq. ft. x 10.5' SWD

#### 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: <u>29.953953</u>

• Longitude: <u>-95.121547</u>

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 <b>and</b> a des  Sundance Cove - residential s			72
Collection System Informatic each uniquely owned collection systems. examples.	ction system, existing Please see the instru	g and new, served by th	nis facility, including
Collection System Information Collection System Name	Owner Name	Owner Type	Population Serve
Sundance Cove Collection System	Utilities Investment Co., Inc.	Privately Owned	Ultimately ~8400
		Choose an item.	
		Choose an item.	
		Choose an item.	
		4 L	
Section 4. Unbuilt P	hases (Instructi	ons Page 45)	
Is the application for a renev	wal of a permit that o	contains an unbuilt pha	ase or phases?
<ul> <li>✓ Yes □ No</li> <li>If yes, does the existing pervears of being authorized by</li> <li>✓ Yes □ No</li> </ul>	y the TCEQ?		
If yes, provide a detailed dis Failure to provide sufficien recommending denial of th	t justification may r	esult in the Executive	
The final phase has not yet be amendment for a higher final			nd a major
	Plans (Instruction	<del></del>	
Have any treatment units be out of service in the next fiv  ☐ Yes ☒ No		ce permanently, or wil	l any units be taken
ы 165 М 140			

Ш	yes, was a closure plan submitted to the TCEQ?
	□ Yes □ No
If :	yes, provide a brief description of the closure and the date of plan approval.
Se	ction 6. Permit Specific Requirements (Instructions Page 45) r applicants with an existing permit, check the Other Requirements or Special
Pro	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: May 8, 2020
	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. <b>Provide a copy of an approval letter from the TCEQ, if applicable</b> .
	N/A
В.	Buffer zones
	Have the buffer zone requirements been met?
	⊠ Yes □ No
	Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.
	Click to enter text.
	1

C. Other actions required by the current permit

	su	bes the Other Requirements or Special Provisions section in the existing permit require bmission of any other information or other required actions? Examples include otification of Completion, progress reports, soil monitoring data, etc.
		□ Yes ⊠ No
		yes, provide information below on the status of any actions taken to meet the nditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
	C	lick to enter text.
		*
	L	
D.	Gr	it and grease treatment
	1.	Acceptance of grit and grease waste
		Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?
		□ Yes ⊠ No
		If No, stop here and continue with Subsection E. Stormwater Management.
	2.	Grit and grease processing
		Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.
		Click to enter text.
	3	Grit disposal
	<i>.</i>	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 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
	<b>If yes</b> , 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.
	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.
		Notes Discrete description of the language of
		Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F.	Di	scharges to the Lake Houston Watershed
	Do	oes the facility discharge in the Lake Houston watershed?
		⊠ Yes □ No
		yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. ECH.04
G.	Ot	ther wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		□ Yes ⊠ No
		If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.
		In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the BOD <sub>5</sub> concentration of the sludge, and the design BOD <sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		Click to enter text.
		Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
	2.	Acceptance of septic waste
		Is the facility accepting or will it accept septic waste?
		□ Yes ⊠ No
		If yes, does the facility have a Type V processing unit?
		□ Yes □ No
		If yes, does the unit have a Municipal Solid Waste permit?
		□ Yes □ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the  $BOD_3$  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?

1000		200	
7.0	Yes	$\boxtimes$	No

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

Click to enter text.		

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

Is the facility in operation?

⊠ Yes □ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD <sub>5</sub> , mg/l	<3.0	<3.0	1	Grab	10/14/24 @ 08:44
Total Suspended Solids, mg/l	4.4	4.4	1	Grab	10/14/24 @ 08:44
Ammonia Nitrogen, mg/l	<0.1	<0.1	1	Grab	10/14/24 @ 08:44
Nitrate Nitrogen, mg/l	31.8	31.8	1	Grab	10/14/24 @ 08:47

Total Kjeldahl Nitrogen, mg/l	<1.1	<1.1	1	Grab	10/14/24 @ 08:44
Sulfate, mg/l	25.2	25.2	1	Grab	10/14/24 @ 08:47
Chloride, mg/l	98.5	98.5	1	Grab	10/14/24 @ 08:47
Total Phosphorus, mg/l	5.1	5.1	1	Grab	10/14/24 @ 08:44
pH, standard units	7.8	7.8	1	Grab	10/14/24 @ 08:53
Dissolved Oxygen*, mg/l	8.0	8.0	1	Grab	10/14/24 @ 08:53
Chlorine Residual, mg/l	2.2	2.2	1	Grab	10/14/24 @ 08:53
E.coli (CFU/100ml) freshwater	<1.0	<1.0	1	Grab	10/14/24 @ 08:50
Entercocci (CFU/100ml) saltwater	N/A	N/A			
Total Dissolved Solids, mg/l	596.0	596.0	1	Grab	10/14/24 @ 08:47
Electrical Conductivity, µmohs/cm, †	N/A	N/A		€	
Oil & Grease, mg/l	N/A	N/A			
Alkalinity (CaCO <sub>3</sub> )*, mg/l	48.0	48.0	1	Grab	10/14/24 @ 08:44
ATDINEC		_			1

<sup>\*</sup>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 <sub>3</sub> ), mg/l					

## Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Eric McMahan

Facility Operator's License Classification and Level: B

Facility Operator's License Number: WW0006601

## 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

**<sup>†</sup>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.
		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 Sludge Handling Facility

### D. Disposal site

Disposal site name: Mount Houston Road MUD

TCEQ permit or registration number: WQoo11154001

County where disposal site is located: Harris

## E. Transportation method

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

Name of the hauler: Magna Flow Environmental

Hauler registration number: 21484

Sludge is transported as a:

Liquid ⊠	semi-liquid 🗆	semi-solid □	solid □
Liquiu L	Jenn nquia 🗀	ociiii oona 🗀	Jona

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

### A.

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

В.	Sludg	e processing authorization								
		the existing permit include authorization for any of the following sludge processing, ge or disposal options?								
	Slu	idge Composting		Yes	$\boxtimes$	No				
	Ma	rketing and Distribution of sludge		Yes	$\boxtimes$	No				
	Slu	idge Surface Disposal or Sludge Monofill		Yes		No				
	Te	mporary storage in sludge lagoons		Yes		No				
	author F <b>ech</b> r	to any of the above sludge options and the rization, is the completed <b>Domestic Waster lical Report (TCEQ Form No. 10056)</b> attack	wate ned to	r <b>Permit</b> o this pe	Appl rmit a	lication: Sewage Sludge application?				
Sec	ction	11. Sewage Sludge Lagoons (Ins	tru	ctions	Page	e 53)				
Doe	s this	facility include sewage sludge lagoons?								
I	□ Y	es 🛮 No								
If ye	es, cor	nplete the remainder of this section. If no,	proc	eed to So	ection	12.				
<b>A.</b> 1	Locati	on information								
		ollowing maps are required to be submitted le the Attachment Number.	as p	art of th	e app	lication. For each map,				
	•	Original General Highway (County) Map:								
		Attachment: Click to enter text.								
	•	USDA Natural Resources Conservation Service Soil Map:								
		Attachment: Click to enter text.								
	•	Federal Emergency Management Map:								
		Attachment: Click to enter text.								
	•	Site map:								
,	21	Attachment: Click to enter text.			,					
	Discus	ss in a description if any of the following ex	ast w	vithin the	e Iago	on area. Check all that				
		Overlap a designated 100-year frequency	floo	d plain						
		Soils with flooding classification								
		Overlap an unstable area								
		Wetlands								
		Located less than 60 meters from a fault								
		None of the above								
	Att	achment: Click to enter text.								

	Click to enter text.
В.	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: <u>Click to enter text.</u>
	Zinc: Click to enter text.
	Total PCBs: Click to enter text.
	Provide the following information:
	Volume and frequency of sludge to the lagoon(s): Click to enter text.
	Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.
	Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.
C.	Liner information
	Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

□ Yes □ No

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

	Click	to enter text.
D.	Site d	evelopment plan
	Provid	de a detailed description of the methods used to deposit sludge in the lagoon(s):
	Click	to enter text.
	Attacl	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 groun	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.
	A +-	tachment. Click to enter toxt

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
<b>If yes</b> 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: Shannon Marsh

Title: President

Signature: Date: 10/22/24

TCEQ-10054 (01/09/2024) Domestic Wastewater Permit Application Technical Report

## DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

## Section 1. Justification for Permit (Instructions Page 57)

### A. Justification of permit need

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

	recommending denial of the proposed phase(s) or permit.	
	The permittee is currently operating a 0.325 mgd WWTP. The projected final connection count is 2400 connections. This will require an expansion to the facilities once the current plant reaches 90% of its capacity.	
B.	Regionalization of facilities	
	For additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> <u>Freatment</u> <sup>1</sup> .	
	Provide the following information concerning the potential for regionalization of domest wastewater treatment facilities:	ic
	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	

<sup>1</sup> 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: TECH.07** 

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: TECH.07** 

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

Attachment: Click to enter text.

## Section 2. Proposed Organic Loading (Instructions Page 59)

⊠ Yes □ No

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

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

## A. Current organic loading

Facility Design Flow (flow being requested in application): 0.195/0.325 mgd/0.650 mgd

Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l: 300

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34):  $\underline{488}$  /  $\underline{813}$  /  $\underline{1,626}$ 

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

Accepted industry concentratio	n		

## 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	0.195 / 0.325 / 0.650	300 / 300 /300
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	0.195 / 0.325 / 0.650	
AVERAGE BOD₅ from all sources		300 / 300 / 300

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

## A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: e. Coli: 126 mpn/100 ml

B.	Interim II Phase Design Effluent Quality
	Biochemical Oxygen Demand (5-day), mg/l: 10
	Total Suspended Solids, mg/l: <u>15</u>
	Ammonia Nitrogen, mg/l: 3
	Total Phosphorus, mg/l: <u>N/A</u>
	Dissolved Oxygen, mg/l: 4
	Other: <u>e. Coli: 126 mpn/100 ml</u>
C.	Final Phase Design Effluent Quality
	Biochemical Oxygen Demand (5-day), mg/l: 10
	Total Suspended Solids, mg/l: <u>15</u>
	Ammonia Nitrogen, mg/l: 3
	Total Phosphorus, mg/l: <u>N/A</u>
	Dissolved Oxygen, mg/l: 4
	Other: <u>e. Coli: 126 mpn/100 ml</u>
D.	Disinfection Method
	Identify the proposed method of disinfection.
	$\boxtimes$ Chlorine: 1-4 mg/l after at least minutes detention time at peak flow
	Dechlorination process: Sulfur dioxide or sodium bisulfite in the final phase
	□ Ultraviolet Light: Click to enter text. seconds contact time at peak flow
	□ Other: Click to enter text.
Co	stion 4 Design Colombations (Leature time Born 50)
	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: See TECH.01
Se	ction 5. Facility Site (Instructions Page 60)
Α.	100-year floodplain
	Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?
	⊠ Yes □ No
	If <b>no</b> , describe measures used to protect the facility during a flood event. Include a site
	map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.
	Click to enter text.

	Provide the source(s) used to determine 100-year frequency flood plain.
	FEMA Flood Map 48201C0530L
	For a new or expansion of a facility, will a wetland or part of a wetland be filled?
	□ Yes ⊠ No
	If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?
	□ Yes □ No
	<b>If yes</b> , provide the permit number: <u>Click to enter text</u> .
	<b>If no,</b> provide the approximate date you anticipate submitting your application to the Corps: <u>Click to enter text.</u>
B.	Wind rose
	Attach a wind rose: <u>TECH.03</u>
Se	ection 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)
A.	Beneficial use authorization
	Are you requesting to include authorization to land apply sewage sludge for beneficial us on property located adjacent to the wastewater treatment facility under the wastewater permit?
	□ Yes ⊠ No
	If yes, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451): Click to enter text.
B.	Sludge processing authorization
	Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:
	□ Sludge Composting
	☐ Marketing and Distribution of sludge
	□ Sludge Surface Disposal or Sludge Monofill
	If any of the above, sludge options are selected, attach the completed <b>Domestic</b> Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056): Click to enter text.
Se	ction 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

**Attachment: TECH.04** 

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

Treatment units and processes dimensions and capacities

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

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

## DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)	
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 <b>no</b> , proceed it Section 2. <b>If yes</b> , provide the following:	
Owner of the drinking water supply: <u>City of Houston</u>	
Distance and direction to the intake: ~3.2 miles southwest	
Attach a USGS map that identifies the location of the intake.	
Attachment: ADMIN.01	
Section 2. Discharge into Tidally Affected Waters (Instructions Pag 64)	ge
Does the facility discharge into tidally affected waters?	
□ Yes ⊠ No	
If <b>no</b> , proceed to Section 3. <b>If yes</b> , complete the remainder of this section. If no, proceed to Section 3.	<b>O</b>
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.	

## 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 Lake Houston A. Receiving water type Identify the appropriate description of the receiving waters. Stream Freshwater Swamp or Marsh Lake or Pond Surface area, in acres: Click to enter text. Average depth of the entire water body, in feet: Click to enter text. Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text. $\boxtimes$ 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.

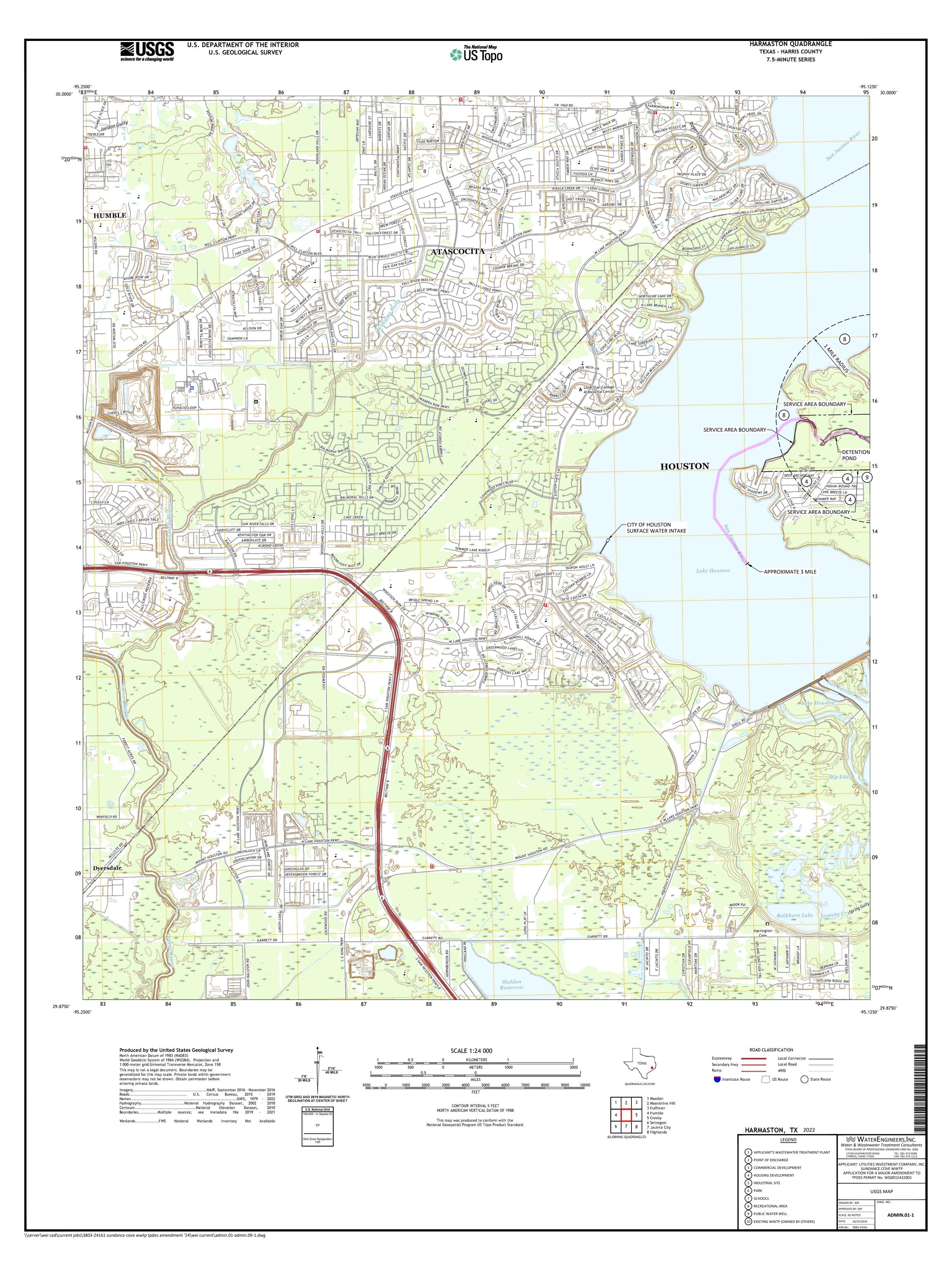
Section 3. Classified Segments (Instructions Page 64)

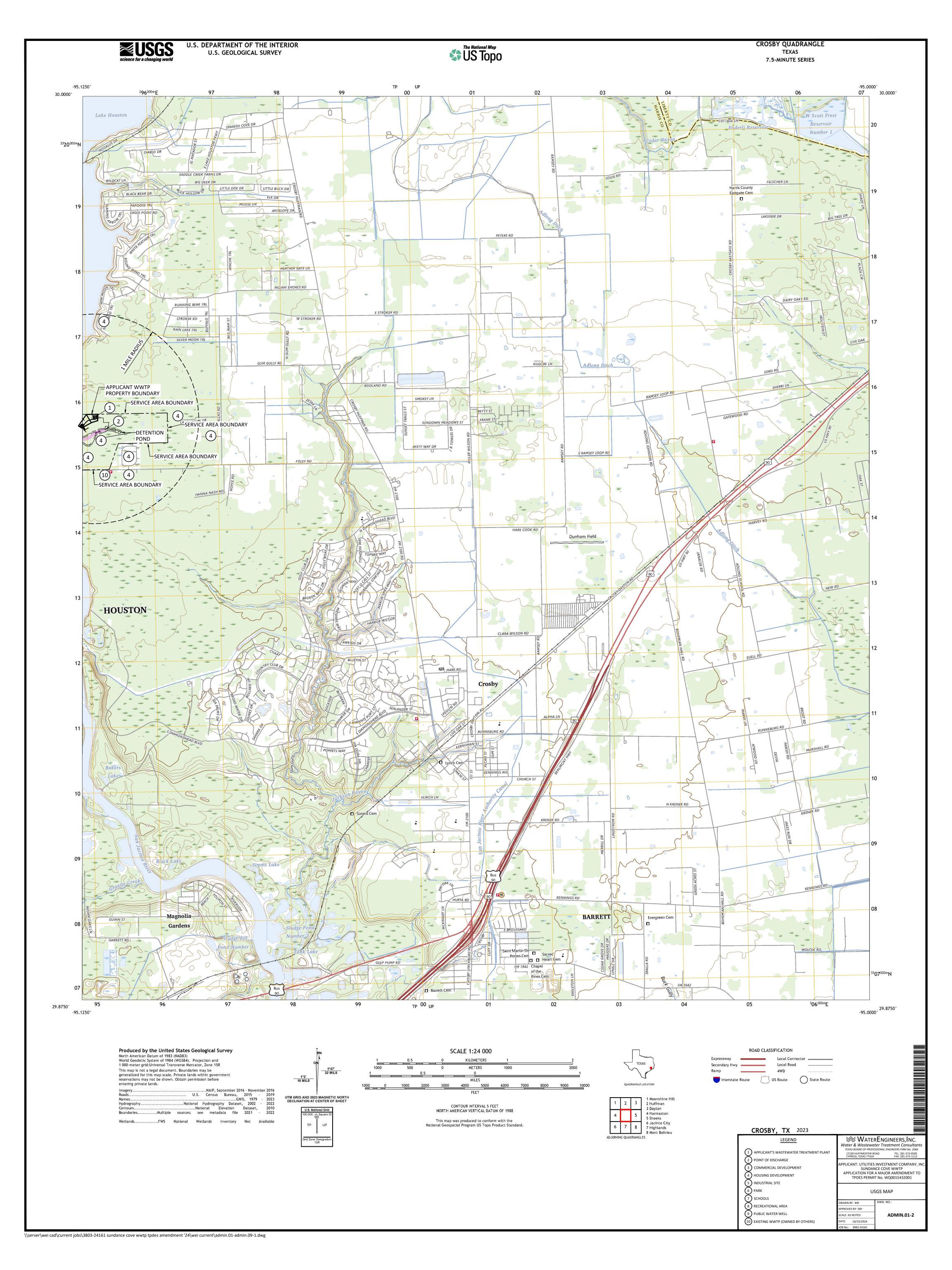
C.	Down	stream perennial confluences		
		e names of all perennial streams tha tream of the discharge point.	at joi	n the receiving water within three miles
	Lake 1	Houston/San Jacinto River		
D.	Downs	stream characteristics		
		receiving water characteristics char rge (e.g., natural or man-made dams		rithin three miles downstream of the nds, reservoirs, etc.)?
	$\boxtimes$	Yes □ No		
	If yes,	discuss how.		
	Tribut	ary empties to Lake Houston		
E.		ll dry weather characteristics		
	_		body	during normal dry weather conditions.
	Click	to enter text.		
	Date a	nd time of observation: <u>Click to ente</u>	er tex	<u>t.</u>
	Was th	e water body influenced by stormwa	ater r	runoff during observations?
		Yes □ No		
Se	ction	5. General Characteristics Page 66)	s of	the Waterbody (Instructions
Α.	Upstre	am influences		
	Is the i			ne discharge or proposed discharge site lat apply.
		Oil field activities	$\boxtimes$	Urban runoff
		Upstream discharges		Agricultural runoff
		Septic tanks		Other(s), specify: Click to enter text.

B.	Waterb	oody uses							
	Observed or evidences of the following uses. Check all that apply.								
		Livestock watering		Contact recreation					
		Irrigation withdrawal		Non-contact recreation					
		Fishing		Navigation					
		Domestic water supply		Industrial water supply					
2		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	eauty	; 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	thetics; cluttered; highly developed;					

# ATTACHMENT ADMIN.01 USGS Topographic Map

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





# ATTACHMENT ADMIN.02 Proof of Payment

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

## **ATTACHMENT ADMIN.03**

## **Core Data Form**

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



**TCEQ Use Only** 

## **TCEQ Core Data Form**

For o		_		of this	form, please	e read th	e Core	Data	Form Instructions	or call 512-	239-5175.
1. Reason fo	or Submiss	ion (If other is	checked plea	se desc	ribe in spac	e provid	led.)				
☐ New Pe	rmit, Registr	ation or Authori	zation (Core l	Data Foi	m should b	e submi	tted witi	h the p	program application	n.)	
□ Renewa	l (Core Da	ta Form should	be submitted	with the	renewal fo	m) [	⊠ Oth	ner	with minor a	amendm	ent
2. Customer	2. Customer Reference Number (if issued) Follow this link to search 3. Regulated Entity Reference Number (if issued)										
CN 600633093 For CN or RN numbers in Central Registry** RN 108871542											
SECTION	II: Cus	tomer Info	rmation								
4. General C	ustomer In	formation	5. Effective	Date fo	r Custome	r Inforn	nation I	Updat	es (mm/dd/yyyy)		
☐ New Cus☐ Change in		e (Verifiable wit		•	to Custome of State of			oller o	☐ Change in Public Accounts	_	Entity Ownership
The Custo	mer Nam	e submitted	here may	be upo	lated aut	omatic	ally b	ased	on what is cu	rrent and	active with the
Texas Sec	retary of	State (SOS)	or Texas C	Comptr	oller of F	ublic /	4ccou	ınts (	(CPA).		
6. Customer	Legal Nam	e (If an individua	l, print last nam	ne first: eg	g: Doe, John)		If n	ew Cu	stomer, enter prev	ious Custom	ner below:
Utilities In	nvestmen	t Company,	Inc.								
7. TX SOS/C	•	umber	8. TX State		(11 digits)		9. F	eder	al Tax ID (9 digits)	10. DUN	IS Number (if applicable)
01422305	00		3011905	2162							
11. Type of 0	11. Type of Customer: ☐ Corporation ☐ Individual ☐ Partnership: ☐ General ☐ Limited										
Government:   City County Federal State Other  Sole Proprietorship  Other:											
12. Number of Employees         13. Independently Owned and Operated?           ☑ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher         ☑ Yes ☐ No											
14. Custome	r Role (Prop	osed or Actual) -	- as it relates to	the Reg	ulated Entity	listed on	this forn	n. Plea	se check one of the	following:	
⊠Owner □Occupatio	nal License	☐ Operate ☐ Respo	or nsible Party		Owner  Volunta	& Opera ry Clean		licant	Other:		_
	P.O. Bo	x 279									
15. Mailing											
Address:  City New Waverly State TX ZIP 77358 ZIP+4 0279											
16. Country Mailing Information (if outside USA)  17. E-Mail Address (if applicable)											
Tor Country	muning init	inacion (il outor	ac ourly								
marshwaterman@aol.com  18. Telephone Number											
( 936 ) 344-8014											
SECTION	III: Reg	ulated En	tity Info	mati	on						
						elected i	below ti	his for	m should be acco	mpanied by	a permit application)
	lated Entity	<u> </u>	to Regulated	-					Entity Information		,
_	•	y Name subi dings such a	•			order	to me	et T	CEQ Agency L	Data Stan	dards (removal
		ne (Enter name d				is taking	place.)				

TCEQ-10400 (04/15) Page 1 of 2

Sundance Cove Wastewater Treatment Plant

29. Primary SIC Code (4 digits)  30. Secondary SIC Code (4 digits)  31. Primary NAICS Code (5 or 6 digits)  22. 132.0  33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)  providing wastewater services to Sundance Cove residential subdivision  P.O. Box 279  34. Mailing Address:  City New Waverly State TX ZIP 77358 ZIP + 4  35. E-Mail Address:  marshwaterman@aol.com  36. Telephone Number 37. Extension or Code 38. Fax Number (if applicable)  (936) 344-8017 () - 39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on thorm. See the Core Data Form instructions for additional guidance.  Dam Safety Districts Edwards Aquifer Emissions Inventory Air Industrial Hazardous Wall Municipal Solid Waste New Source Review Air CSSF Petroleum Storage Tank PWS  Sudge Storm Water Title V Air Tires Used Oil  Voluntary Cleanup Waste Water Wastewater Agriculture Water Rights Other:  WQ0015432001  SECTION IV: Preparer Information  40. Name: Shelley Young, P.E. 41. Title: Engineer  42. Telephone Number 43. Ext/Code 44. Fax Number 45. E-Mail Address  (281) 373-0500 (281) 373-1113 syoung@waterengineers.com	23. Street Address of													
Enter Physical Location Description If no street address is provided.  25. Description to Physical Location:  26. Nearest City  27. Latitude (N) In Decimal:  29. 95572  28. Longitude (W) In Decimal:  29. 95752  28. Longitude (W) In Decimal:  29. 57 20.06  29. 57 20.06  31. Primary NAICS Code (5 of edgits)  30. Secondary SIC Code (4 digits)  30. Secondary SIC Code (4 digits)  31. Primary NAICS Code (5 of edgits)  32. Secondary NAICS Code (5 of edgits)  33. What is the Primary Business of this entity?  (10. not repeat the SIC or MAICS description.)  Providing wastewater services to Sundance Cove residential subdivision  P.O. Box 279  34. Mailing Address:  City New Waverly State TX ZIP 77358 ZIP+4  35. E-Mail Address:  City New Waverly State TX ZIP 77358 ZIP+4  36. Telephone Number  (2836) 344-8017  (1) -  37. Extension or Code 38. Fax Number (# applicable)  (2836) 344-8017  (29 ) Dam Safety  Dam Safety  Dam Safety  Dam Safety  Description to Physical Location Description Industrial Hazardous Water Polycome Number  40. Name: Shelley Young, P.E.  41. Title: Engineer  44. Telephone Number  43. Ext.ICode 44. Fax Number 45. E-Mail Address  SECCTION V: Authorized Signature  66. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have find the part of		City			State			ZIP				ZIP +	+ 4	
25. Description to Physical Location: 26. Nearest City 2100  27. Latitude (N) In Decimal: 29.955572 28. Longitude (W) In Decimal: 29.955572 28. Longitude (W) In Decimal: 29. Primary SIC Code (4 digits) 29. Primary SIC Code (4 digits) 30. Secondary SIC Code (4 digits) 30. Secondary SIC Code (4 digits) 31. Primary NAICS Code 4952 33. What is the Primary Business of this entity? 34. Mailing Address: City New Waverly State TX ZIP 77358 ZIP + 4  35. E-Mail Address: City New Waverly State TX ZIP 77358 ZIP + 4  36. Telephone Number 37. Extension or Code 38. Fax Number (ff applicable) (936) 344-8017 (936) 3	24. County	Harris												
Physical Location:   2100   26. Nearest City   State   Nearest ZIP C.	<u></u>	E	nter Physical L	ocation	Description	n if no	street	addres	s is pro	ovided				
Crosby		1	• • •											
27. Latitude (N) In Decimal:   29.955572   28. Longitude (W) In Decimal:   95.123414	26. Nearest City	-							Sta	ite			Nea	est ZIP Code
Degrees	Crosby								TX				775	32
Degrees	27. Latitude (N) In Deci	mal:	29.95557	2			28. Lc	ngitud	e (W)	In Dec	imal:	95.12	341	4
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Address:    City   New Waverly   State   TX   ZIP   77358   ZIP + 4     35. E-Mail Address:   marshwaterman@aol.com     36. Telephone Number   37. Extension or Code   38. Fax Number (if applicable)     (936) 344-8017   ( ) -     9. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on the form. See the Core Data Form instructions for additional guidance.   Dam Safety   Districts   Edwards Aquifer   Emissions Inventory Air   Industrial Hazardous Ward     Municipal Solid Waste   New Source Review Air   OSSF   Petroleum Storage Tank   PWS     Sludge   Storm Water   Title V Air   Tires   Used Oil     Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:     WQ0015432001   Waste Water   Wastewater Agriculture   Water Rights   Other:     WQ0015432001   Waste Water   Stelley Young, P.E.   41. Title:   Engineer     42. Telephone Number   43. Ext./Code   44. Fax Number   45. E-Mail Address     (281) 373-0500   (281) 373-1113   syoung@waterengineers.com     SECTION V: Authorized Signature   6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have							P.O. E	30x 279						Tay.
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36. Telephone Number   37. Extension or Code   38. Fax Number (if applicable)	35. E-Mail Address		1101111111	, , , , , , , , , , , , , , , , , , ,	Otato	1			Daol co			1 -"	_	
Gase   344-8017			Г		37. Extensio			Cimany	<u> </u>		x Numb	er <i>(if an</i>	plica	ble)
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Dam Safety Districts Edwards Aquifer Emissions Inventory Air Industrial Hazardous Wall Municipal Solid Waste New Source Review Air OSSF Petroleum Storage Tank PWS  Sludge Storm Water Title V Air Tires Used Oil  Voluntary Cleanup Waste Water Wastewater Agriculture Water Rights Other:  WQ0015432001  SECTION IV: Preparer Information  40. Name: Shelley Young, P.E.  41. Title: Engineer  42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address  (281) 373-0500 (281) 373-1113 syoung@waterengineers.com  SECTION V: Authorized Signature  6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have	9. TCEQ Programs and ID	Numbers C			te in the perm	its/regis	stration	numbers	that will	be affe	cted by th	he update	s sub	mitted on this
Municipal Solid Waste   New Source Review Air   OSSF   Petroleum Storage Tank   PWS     Sludge   Storm Water   Title V Air   Tires   Used Oil     Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:     WQ0015432001   W20015432001     WQ0015432001   W20015432001   W30015432001     WQ0015432001   W30015432001   W30015432001     WQ0015432001   W30015432001   W30015432001   W30015432001     WQ0015432001   W30015432001   W300				_	dwards Aguife	r	TE	] Emission	ons Inver	ntory Air	. 1	Industri	ial Ha	zardous Waste
Sludge Storm Water Title V Air Tires Used Oil  Voluntary Cleanup Waste Water Wastewater Agriculture Water Rights Other:  WQ0015432001  SECTION IV: Preparer Information  40. Name: Shelley Young, P.E.  41. Title: Engineer  42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address  (281) 373-0500 (281) 373-1113 syoung@waterengineers.com  SECTION V: Authorized Signature  6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have				1										
Voluntary Cleanup ☑ Waste Water ☐ Wastewater Agriculture ☐ Water Rights ☐ Other:   WQ0015432001 WQ0015432001 ☐ Wastewater Agriculture ☐ Water Rights ☐ Other:   40. Name: Shelley Young, P.E. 41. Title: Engineer   42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address   (281) 373-0500 (281) 373-1113 syoung@waterengineers.com   SECTION V: Authorized Signature   6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have	☐ Municipal Solid Waste	☐ New So	ource Review Air		SSF		1	] Petrole	um Stora	age Tan	k [	] PWS		
Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:														
WQ0015432001  BECTION IV: Preparer Information  40. Name: Shelley Young, P.E.  41. Title: Engineer  42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address  (281) 373-0500 (281) 373-1113 syoung@waterengineers.com  BECTION V: Authorized Signature  6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have	Sludge	☐ Storm V	Vater	□ Ti	☐ Title V Air			Tires				☐ Used Oil		
WQ0015432001  BECTION IV: Preparer Information  40. Name: Shelley Young, P.E.  41. Title: Engineer  42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address  (281) 373-0500 (281) 373-1113 syoung@waterengineers.com  BECTION V: Authorized Signature  6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have														
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40. Name: Shelley Young, P.E.  41. Title: Engineer  42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address  (281) 373-0500 (281) 373-1113 syoung@waterengineers.com  SECTION V: Authorized Signature  6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have	WQ0015432001													
42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address  (281) 373-0500 (281) 373-1113 syoung@waterengineers.com  SECTION V: Authorized Signature  6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have	SECTION IV: Pre	parer In	formation	ĺ							.,			
42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address  (281) 373-0500 (281) 373-1113 syoung@waterengineers.com  SECTION V: Authorized Signature  6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have	40. Name: Shelley Y	Oung. P.1	======================================				41. Ti	tle:	Engi	neer				
(281) 373-0500 (281) 373-1113 syoung@waterengineers.com  SECTION V: Authorized Signature  6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			44. Fax	Number				_					
SECTION V: Authorized Signature  6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have	•										neers.c	om		
6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have	•	nowice of t		)	1113		1 570		,					
ignature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers dentified in field 39.	<b>6.</b> By my signature below, ignature authority to submit	I certify, to 1	he best of my k											

 Company:
 WaterEngineers, Inc.
 Job Title:
 Project Engineer

 Name(In Print):
 Shelley Young, P.E.
 Phone:
 (281) 373-0500

 Signature:
 Date:
 1//12/2024

TCEQ-10400 (04/15) Page 2 of 2

## **ATTACHMENT ADMIN.04**

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

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

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

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

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

Utilities Investment Company, Inc. (CN600633093) operates the Sundance Cove Wastewater Treatment Plant (RN108871542), an activated sludge process with nitrification operated in the complete mix mode. The facility is located at approximately 2.8 miles west northwest of the intersection of Foley Road and Farm-to-Market Road 2100, in Crosby, Harris County, Texas 77532. This application for a renewal with major amendment with application to discharge a daily average flow of 650,000 gallons per day of treated domestic wastewater..

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-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 is treated by an activated sludge process plant and the treatment units include a bar screen, anoxic zone, aeration basins, a final clarifier, sludge digesters, and a chlorine contact chamber. Dechlorination will be added in the final phase.

## 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.

Utilities Investment Company, Inc.. (CN600633093) opera la Planta de Tratamiento de Aguas Residuales de Sundance Cove (RN 108871542), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en aproximadamente 2.8 milas oeste noroeste de la interseccion de Camino Foley y Camino Granja-a-Mercado 2100, en Crosby, Condado de Harris, Texas 77532. Esta solicitud es para una renovación con enmienda importante aplicación para descargar a un flujo promedio diario de 650,000 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. está tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una pantalla de barras, zona anóxica, balsas de aireación, un clarificador secundaria, digestores de lodos, y cámara de contacto de cloro. Le declaración se agregará en la fase final.

## **ATTACHMENT ADMIN.05**

## **Public Involvement Plan**

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

WQ005432001 Utilities Investment Company, Inc. Sundance Cove 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, and
\times Located within any of the following geographical locations:
<ul> <li>Austin</li> <li>Dallas</li> <li>Fort Worth</li> <li>Houston</li> <li>San Antonio</li> <li>West Texas</li> <li>Texas Panhandle</li> <li>Along the Texas/Mexico Border</li> <li>Other geographical locations should be decided on a case-by-case basis</li> </ul>
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 <b>brief</b> 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.
Trovide a biter description of plainted activities.
×

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

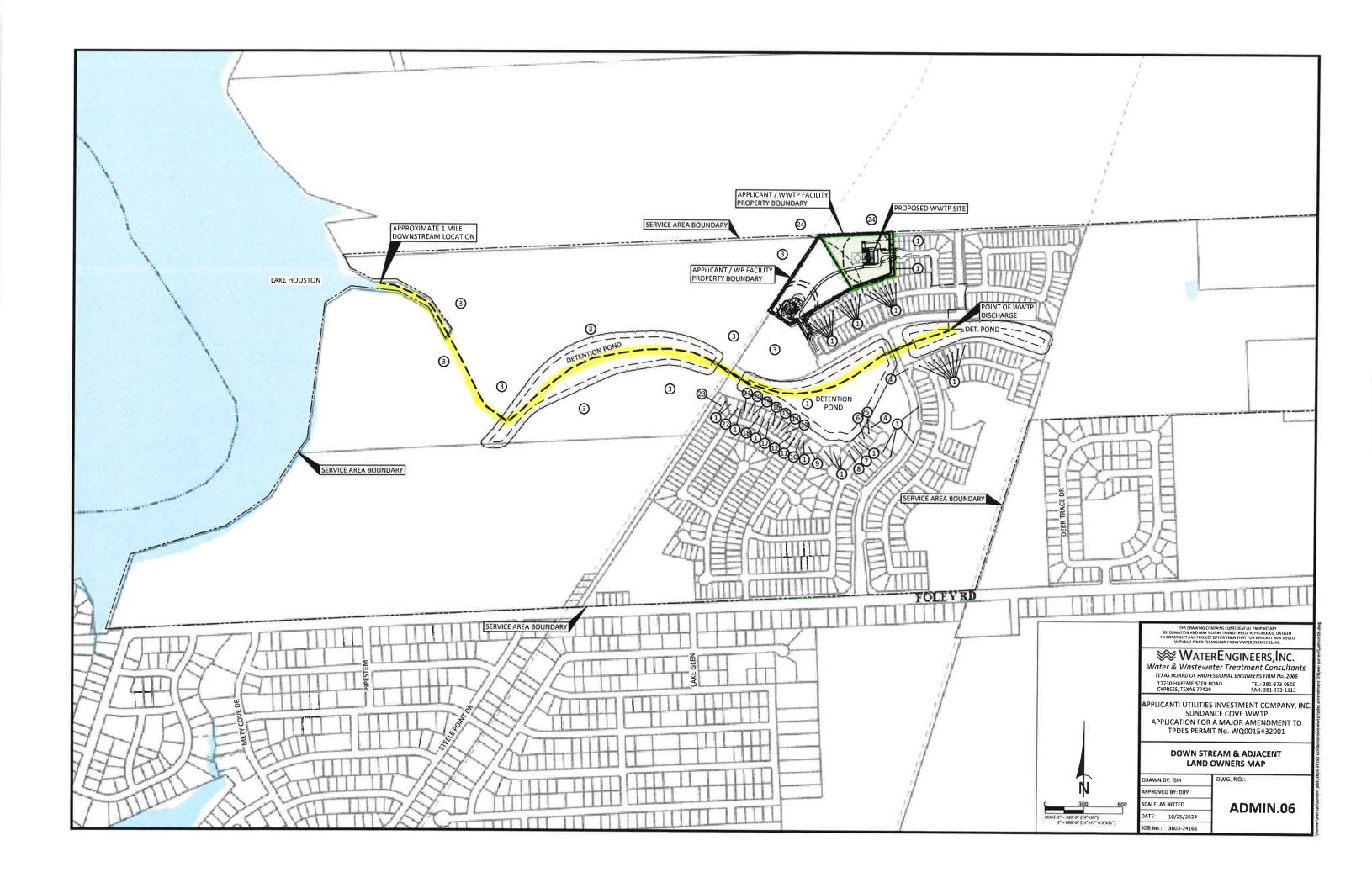
TCEQ-20960 (02-09-2023)

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

## ATTACHMENT ADMIN.06

## Affected Landowners Map and Table

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



#### **TABLE "ADMIN.06"**

# Utilities Investment Company, Inc. Sundance Cove Wastewater Treatment Plant

### Adjacent & Downstream Land Ownership Table

Source: Harris County Appraisal District

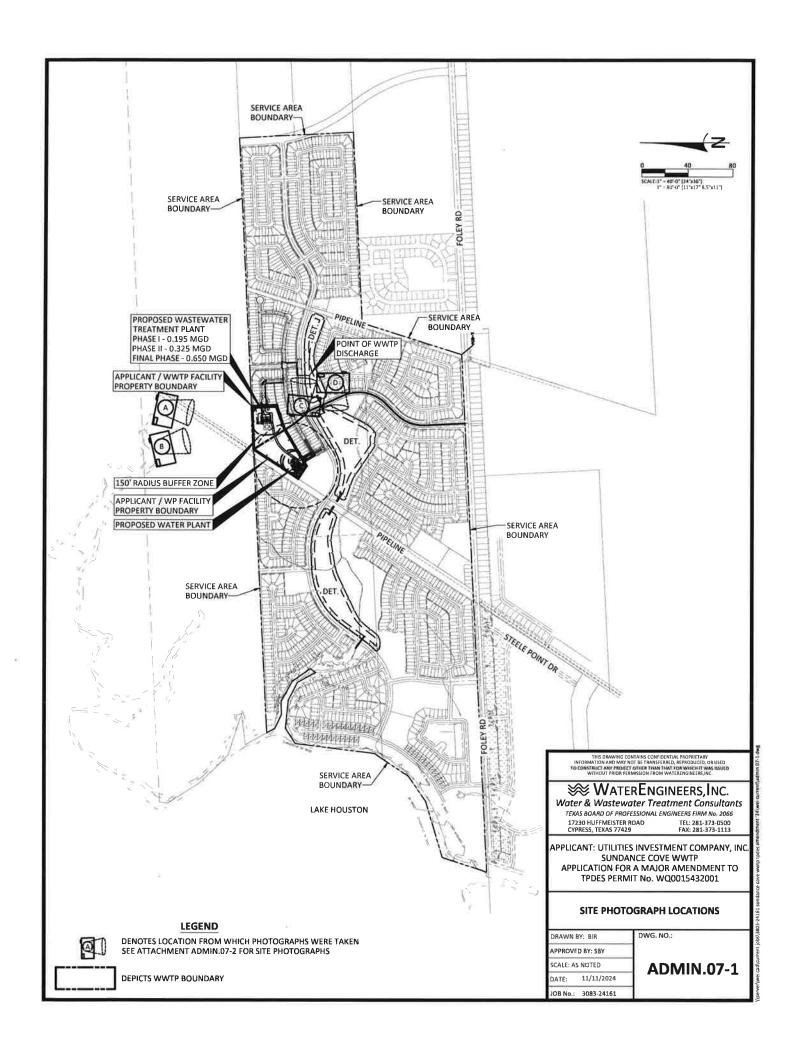
Tract No.	Title Owner & Address		
(See Attachment "ADMIN.06" Map)	A CENTRAL OF MONEY OF SERVICE AND SERVICE OF		
,	MERITAGE HOMES OF TEXAS LLC		
1	3250 BRIARPARK DRIVE		
	HOUSTON TX 77042		
	HARRIS COUNTY		
2	P O BOX 1525		
	HOUSTON TX 77251-1525		
	CLAY ROAD 628 DEVELOPMENT LP		
3	5910 FM 2920 SUITE B		
	SPRING TX 77388		
	THERESA GRAVES		
4	18831 REDFORD SPRINGS CT		
	CROSBY TX 77532		
	COREY & SHAELYN PORTIER		
5	18827 REDFORD SPRINGS CT		
	CROSBY TX 77532		
	JOSE RODRIGUEZ		
6	18823 REDFORD SPRINGS CT		
	CROSBY TX 77532		
	BRUCE BANG		
7	18815 REDFORD SPRINGS CT		
	CROSBY TX 77532		
	JOE & DANIELLE BARBOZA		
8	18811 REDFORD SPRINGS CT		
	CROSBY TX 77532		
	DAVID SALAZAR		
9	TOLEDO GENESIS		
	2702 TRINITY COVE		
	CROSBY TX 77532		
	ERICK & CHRISTINE WALSH		
10	2706 TRINITY COVE		
	CROSBY TX 77532		
	JOHN & BRENDA BAKER		
11	2710 TRINITY COVE		
	CROSBY TX 77532		
	HEATHER SCHWALBACH		
12	Tr.		
12	2714 TRINITY COVE		
	CROSBY TX 77532		
12	KIYONA MACK		
13	2718 TRINITY COVE		

	CROSBY TX 77532
	ERICK DEUTSCH & MITCHELL DEUTSCH
14	2722 TRINITY COVE
	CROSBY TX 77532
	MICHAEL EVANS
15	2726 TRINITY COVE
	CROSBY TX 77532
	ROGELIO RAMIREZ
16	2730 TRINITY COVE
	CROSBY TX 77532
	JUAN & NELLY AVILES
17	2802 TRINITY COVE
	CROSBY TX 77532
	ALEJANDRO MORENA & IRI MARTINEZ
18	2810 TRINITY COVE
	CROSBY TX 77532
	CLARK & BRITTANY HINKLE
19	2814 TRINITY COVE
	CROSBY TX 77532
	BRANDON MCCOY
20	2818 TRINITY COVE
	CROSBY TX 77532
	GUMARO ROBLES JR
21	2822 TRINITY COVE
	CROSBY TX 77532
	THOMAS TATE
22	2826 TRINITY COVE
	CROSBY TX 77532
	ALEX MUNIZ
23	18835 CHISHOLM MEADOWN DR
	CROSBY TX 77532
	DEYI TECHNOLOGY INC
24	5855 SOVEREIGN DR SUITE A
	HOUSTON TX 77036

# **ATTACHMENT ADMIN.07**

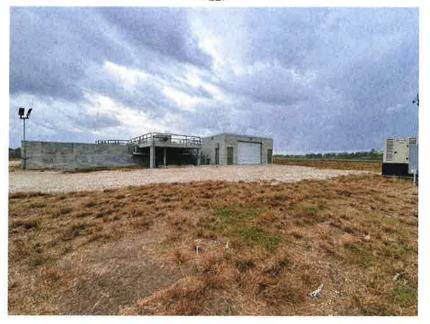
# **Photographs**

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



#### PROPOSED WASTEWATER TREATMENT PLANT SITE





#### POINT OF DISCHARGE





#### **WATER ENGINEERS, INC.**

Water & Wastewater Treatment Consultants

TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2056 17230 HUFFMEISTER ROAD TEL: 281-373-0500 CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: UTILITIES INVESTMENT COMPANY, INC SUNDANCE COVE WWTP APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0015432001

#### SITE PHOTOGRAPHS DWG, NO.:

DRAWN BY: BIR APPROVED BY: SBY

SCALE: AS NOTED 11/11/2024 DATE: JOB No.: 3083-24161

**ADMIN.07-2** 

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

#### **UPSTREAM OF POINT OF DISCHARGE**





#### DOWNSTREAM OF POINT OF DISCHARGE





THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERBED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION FROM WATEREMISHERS, INC.

#### ₩ Water Engineers, Inc.

Water & Wastewater Treatment Consultants

TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD TEL: 281-373-0500
CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: UTILITIES INVESTMENT COMPANY, INC SUNDANCE COVE WWTP APPLICATION FOR A MAIOR AMENDMENT TO TPDES PERMIT No. WQ0015432001

#### SITE PHOTOGRAPHS

DRAWN BY: BIR

APPROVED BY: SBY

SCALE: AS NOTED

DATE: 11/11/2024

JOB No.: 3083-24161

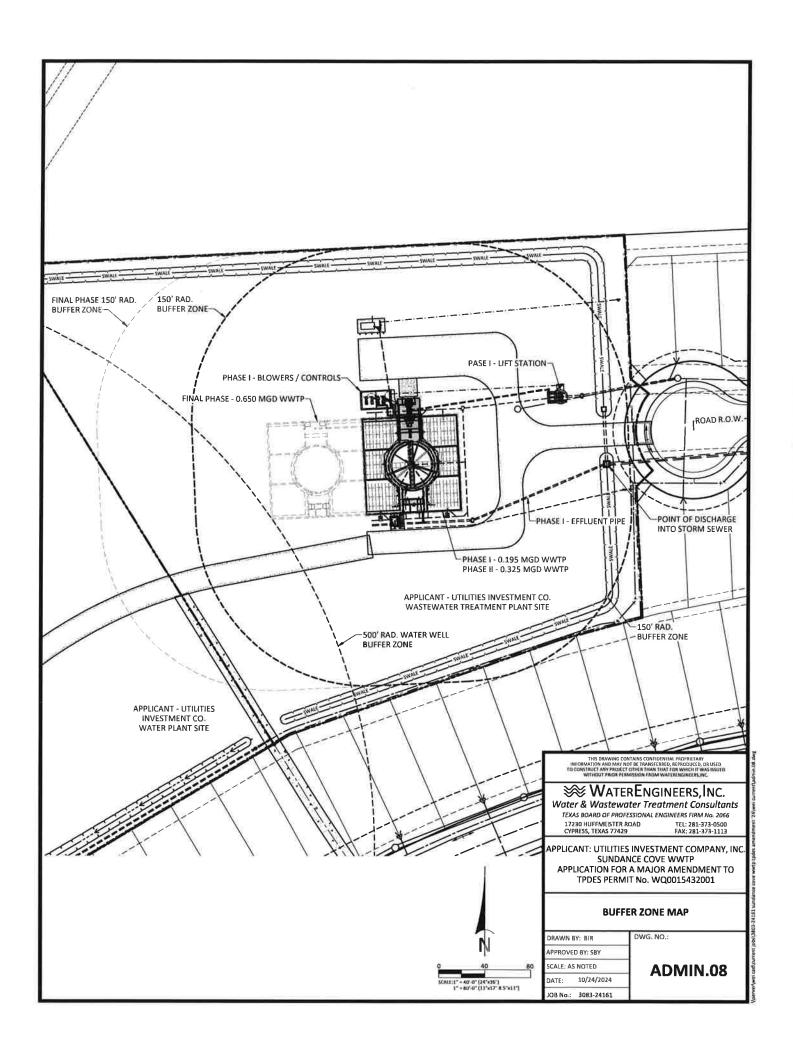
DWG- NO-:

**ADMIN.07-3** 

## **ATTACHMENT ADMIN.08**

# **Buffer Zone Map**

(Reference Administrative Report 1.1, Page 13, Section 3A)



# 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)

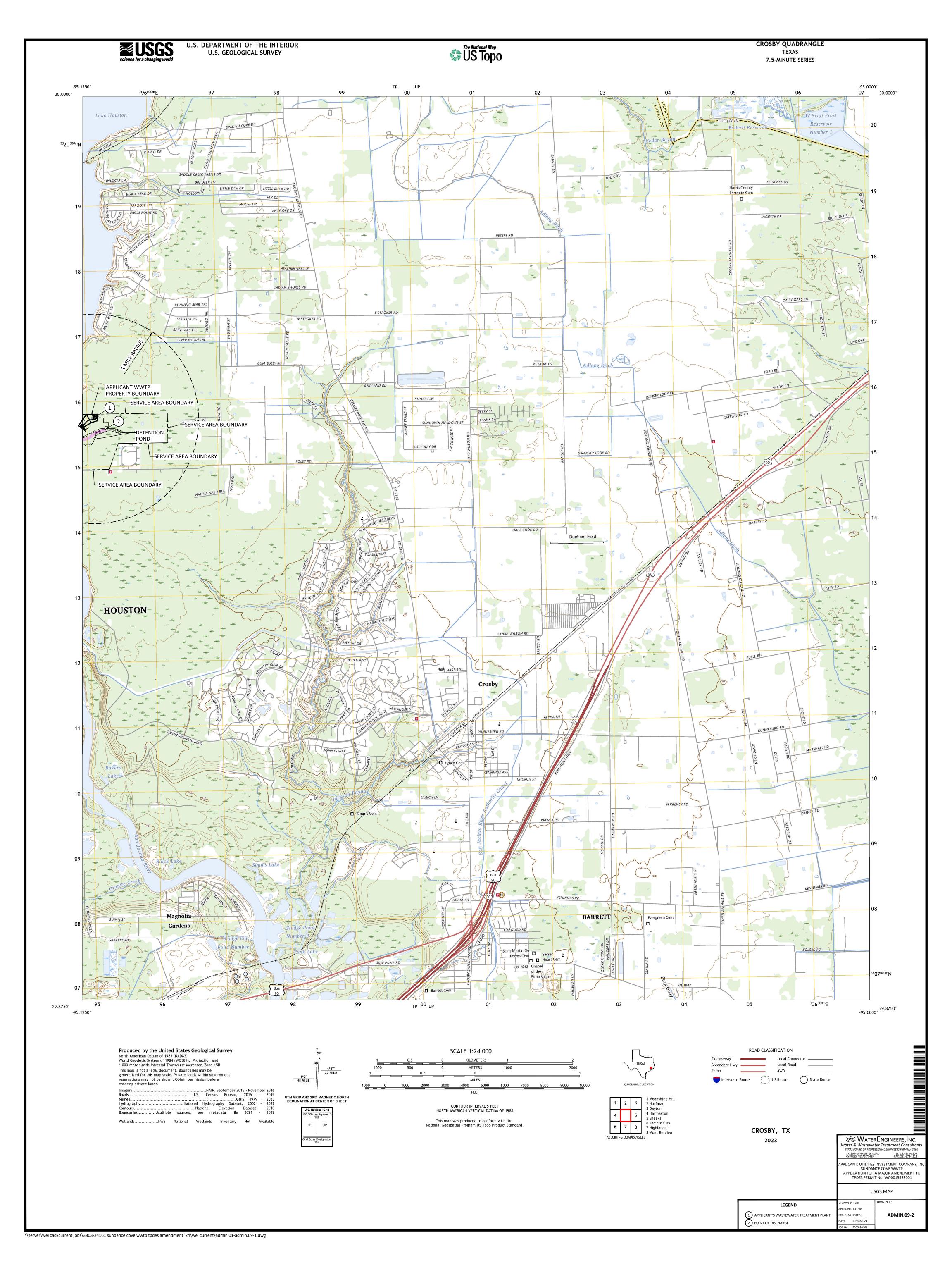
# FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

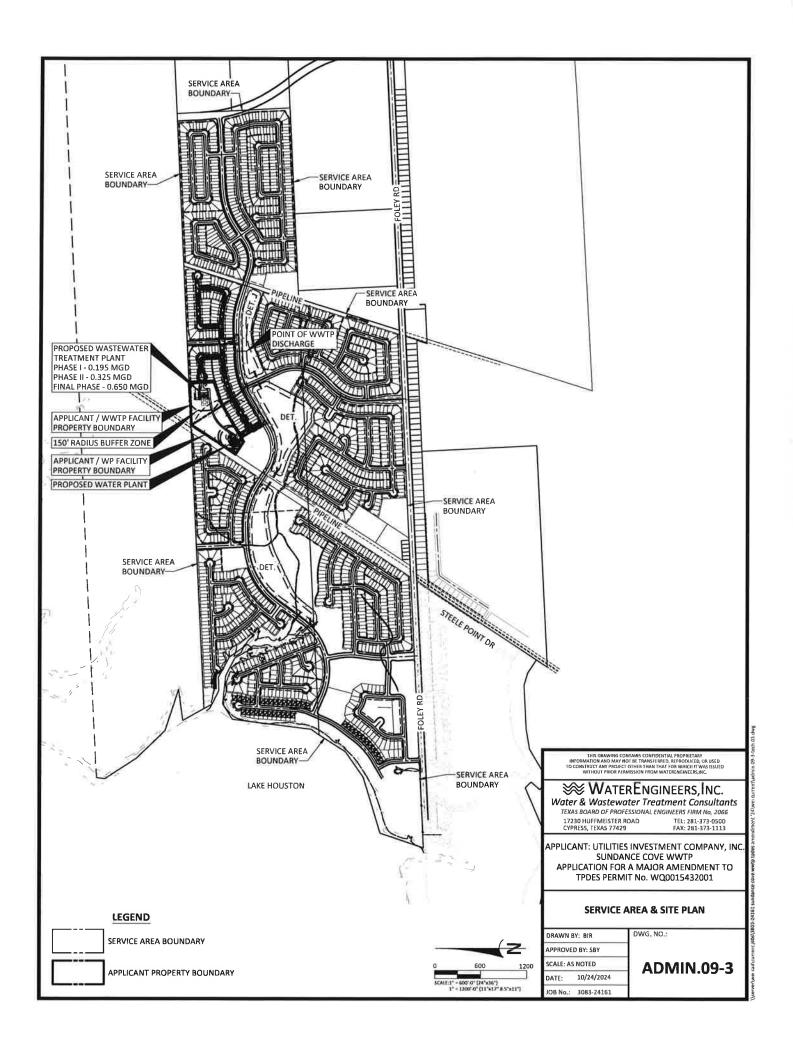
5W
1
uired by rmation ress
n The his form by
cinity,

		le the name, address, phone and fax number of an individual that can be contacted to r specific questions about the property.
	Prefix	(Mr., Ms., Miss): <u>Ms.</u>
	First a	nd Last Name: Shelley Young
	Crede	ntial (P.E, P.G., Ph.D., etc.): <u>P.E.</u>
	Title: l	Engineer
	Mailin	g Address: <u>17230 Huffmeister Road, Suite A</u>
	City, S	tate, Zip Code: <u>Cypress, TX 77429</u>
	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 th	e county in which the facility is located: <u>Harris</u>
3.		property is publicly owned and the owner is different than the permittee/applicant, list the owner of the property.
	N/A	
1.	of effludischa	e a description of the effluent discharge route. The discharge route must follow the flow tent from the point of discharge to the nearest major watercourse (from the point of rge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify ssified segment number.
		the plant to a series of detention ponds; thence to an unnamed tributary; thence to Houston in Segment No. 1002 of the San Jacinto River Basin.
5.	plotted route f	provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge from the point of discharge for a distance of one mile downstream. (This map is ed in addition to the map in the administrative report).
	Provid	e original photographs of any structures 50 years or older on the property.
	Does y	our project involve any of the following? Check all that apply.
		Proposed access roads, utility lines, construction easements
		Visual effects that could damage or detract from a historic property's integrity
		Vibration effects during construction or as a result of project design
		Additional phases of development that are planned for the future
		Sealing caves, fractures, sinkholes, other karst features

	Disturbance of vegetation of wettands
1.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
	Site has been a wastewater treatment plant site for about one year. No additional construction impact is anticipated.
2.	Describe existing disturbances, vegetation, and land use:
	Site has been a wastewater treatment plant site for about one year.
	E FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR IENDMENTS TO TPDES PERMITS
3.	List construction dates of all buildings and structures on the property:
	WWTP is the only structure on the site and was constructed beginning in early 2023
4.	Provide a brief history of the property, and name of the architect/builder, if known.
	See No. 3 above







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

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

#### **ATTACHMENT TECH.01-01 DESIGN & LOADING CRITERIA SUNDANCE COVE SUBDIVISION** INTERIM PHASE I WWTP - 195,000 GPD CONCRETE

Parameter	Value
INFLUENT CONDITIONS	Design Criteria
Design Average Daily Flow, gpd	195,000
BOD, mg/l	300
Ratio Average/Peak Flow	4.0
Peak 2-Hour Flow, gpd	780,000
Peak 2-Hour Flow, gpm	542
BOD, lb/day	488
AERATED TANK CONFIGURATION	
Total Wall Height, ft	12.0
Freeboard, ft	1.5
Side Water Depth (Normal Flow)	10.50
SELECTOR ZONE	
Min. Required Detention Time, hours	2.00
Volume Required, cu ft	2,172
Area Required, sq ft	206.90
Chosen Area, sq ft	372
Volume of Chosen Area, cu ft	3,906
Detention of Chosen Area, hours	3.60
Air Supply Required @ 20 scfm/1000 cu ft	78.1
ACTIVATED SLUDGE AERATION BASINS	
Allow Aeration Basin Load, Lb BOD/1000 cu ft	35.00
Total Aeration Basin Volume Req'd, cu ft	13,940
Aeration Basin Liquid Depth, ft	10.40
Total Aeration Basin Area Req'd, sq ft	1340.36
Chosen Aeration Basin Area, ft	2664
Aeration Basin Vol., cu ft	27,706
Aeration Basin Loading, #BOD/1000 cu ft	17.61
Total Aeration Basin Vol. cu ft (incl. Selector)	31,612
Total Aeration Basin Loading, #BOD/1000 cu ft	15.4
Detention (@Qave), hours	25.5
O2 Req'd @ 2.2 # O2/lb BOD	1,073
Correction Factor (Fine Bubble Diffusers)	0.45
Air Diffuser SOTE @10 ft Submergence., %	17.00%
Required Air Flow Rate, scfm	565
Temp Adjustment Factor @ 30 deg F	1.27
Adjusted Air Flow Requirements, scfm	716
Air Flow/Diffuser, scfm	3.5
No. Diffuser Membranes Provided	202
Diffuser Active Surface Area, sf/diffuser	0.785
Diffuser Air Flow/SF Active Membrane, scfm/sf	4.5
Air Supply, scfm/1000 cf	23

Parameter	Value
CLARIFIER	
Wall Height, ft	12
Side Water Depth,ft	10.28
Allowable Surface Overflow Rate @ Qp, gpd/sf	1,200
Diameter Based on OFR Criteria, ft	28.8
Minimum Detention @ Qp, hours	1.8
Diameter Based on Min. Detention, ft	31.1
Minimum Clarifier Diameter, ft	31.1
Chosen Clarifier Diameter, ft	40
Center Well Diameter, ft	6
Total Settling Area, sq. ft.	1,257
Total Volume, cu. ft	12,918
Avg. SOR, gpd/sq ft	155
Peak SOR, gpd/sq ft	621
Avg. Detention, hr	11.89
Peak Detention, hr	3.0
Return Sludge Flow, gpm (@400 gpd/sq ft)	349.07
CHLORINE CONTACT CHAMBER	
Min Peak Flow Detention Time, min	20
Required Volume, cu ft	2896.61
Wall Height, ft	12
Maximum Depth, ft	8.92
Required Surface Area, sq ft	324.73
Chosen Surface Area, sq ft	327
Volume of Chosen Area, cu ft	2,917
Detention @ Peak Flow	40.28
Air Supply Req'd, scfm (@ 10 scfm/1000 cu ft)	29.17
AEROBIC DIGESTION	
Allowable Load, cu ft/Lb BOD	25
Req'd Volume, cu ft	12,197
Req'd Surface Area, sq ft	1,162
Chosen Surface Area, sq ft	1,774
Volume for Chosen Surface Area, cu ft	18,627
Loading for Chosen Area, cu ft/# BOD	38.18
Aeration Supply Rate, scfm/1000 cu ft	20
Total Digester Air Supply Req'd, scfm	372.54
No. Diffuser Membranes Installed	118
Air Flow Rate Per Diffuser Membrane, scfm	3.16
AIR SUPPLY BLOWERS	
Selector Zone Air Supply, scfm	78.1
Aeration Process Air Supply, scfm	716.0
Skimmer Airlift Air Supply, scfm	10
RAS Airlift Air Supply, scfm	69.8
Digester Process Air Supply, scfm	373
Chlorine Contact Air Supply, scfm	29.2
Total Air Supply Required, scfm	1,276
Number of Blowers	2
Capacity of Blowers, scfm	1800
Blower Operating Pressure, psi	5.5

# ATTACHMENT TECH.01-02 DESIGN & LOADING CRITERIA SUNDANCE COVE SUBDIVISION INTERIM PHASE II WWTP - 325,000 GPD CONCRETE

Parameter	Value
INFLUENT CONDITIONS	Design Criteria
Design Average Daily Flow, gpd	325,000
BOD, mg/l	300
Ratio Average/Peak Flow	4.0
Peak 2-Hour Flow, gpd	1,300,000
Peak 2-Hour Flow, gpm	903
BOD, lb/day	813
AERATED TANK CONFIGURATION	
Total Wall Height, ft	12.0
Freeboard, ft	1.5
Side Water Depth (Normal Flow)	10.50
SELECTOR ZONE	
Min. Required Detention Time, hours	2.00
Volume Required, cu ft	3,621
Area Required, sq ft	344.83
Chosen Area, sq ft	372
Volume of Chosen Area, cu ft	3,906
Detention of Chosen Area, hours	2.16
Air Supply Required @ 20 scfm/1000 cu ft	78.1
ACTIVATED SLUDGE AERATION BASINS	
Allow Aeration Basin Load, Lb BOD/1000 cu ft	35.00
Total Aeration Basin Volume Req'd, cu ft	23,233
Aeration Basin Liquid Depth, ft	10.40
Total Aeration Basin Area Reg'd, sq ft	2233.93
Chosen Aeration Basin Area, ft	2664
Aeration Basin Vol., cu ft	27,706
Aeration Basin Loading, #BOD/1000 cu ft	29.35
Total Aeration Basin Vol. cu ft (incl. Selector)	31,612
Total Aeration Basin Loading, #BOD/1000 cu ft	25.7
Detention (@Qave), hours	15.3
O2 Req'd @ 2.2 # O2/lb BOD	1,789
Correction Factor (Fine Bubble Diffusers)	0.45
Air Diffuser SOTE @10 ft Submergence., %	17.00%
Required Air Flow Rate, scfm	941
Temp Adjustment Factor @ 30 deg F	1.27
Adjusted Air Flow Requirements, scfm	1,193
Air Flow/Diffuser, scfm	5.9
No. Diffuser Membranes Provided	202
Diffuser Active Surface Area, sf/diffuser	0.785
Diffuser Air Flow/SF Active Membrane, scfm/sf	7.5
Air Supply, scfm/1000 cf	38

Parameter	Value
CLARIFIER	
Wall Height, ft	12
Side Water Depth,ft	10.28
Allowable Surface Overflow Rate @ Qp, gpd/sf	1,200
Diameter Based on OFR Criteria, ft	37.1
	1.8
Minimum Detention @ Qp, hours Diameter Based on Min. Detention, ft	40.2
Minimum Clarifier Diameter, ft	40.2
Chosen Clarifier Diameter, ft	40.2
Center Well Diameter, ft	6
	1,257
Total Settling Area, sq. ft.	
Total Volume, cu. ft	12,918
Avg. SOR, gpd/sq ft	259
Peak SOR, gpd/sq ft	1,035
Avg. Detention, hr	7.14
Peak Detention, hr	1.8
Return Sludge Flow, gpm (@400 gpd/sq ft)	349.07
CHLORINE CONTACT CHAMBER	
Min Peak Flow Detention Time, min	20
Required Volume, cu ft	4827.69
Wall Height, ft	12
Maximum Depth, ft	8.92
Required Surface Area, sq ft	541.22
Chosen Surface Area, sq ft	327
Volume of Chosen Area, cu ft	2,917
Detention @ Peak Flow	24.17
Air Supply Req'd, scfm (@ 10 scfm/1000 cu ft)  AEROBIC DIGESTION	29.17
Allowable Load, cu ft/Lb BOD	25
Reg'd Volume, cu ft	20,329
Reg'd Surface Area, sq ft	1,936
Chosen Surface Area, sq ft	1,774
Volume for Chosen Surface Area, cu ft	18,627
Loading for Chosen Area, cu ft/# BOD	22.91
Aeration Supply Rate, scfm/1000 cu ft	20
Total Digester Air Supply Req'd, scfm	372.54
No. Diffuser Membranes Installed	118
Air Flow Rate Per Diffuser Membrane, scfm	3.16
AIR SUPPLY BLOWERS	3.10
Selector Zone Air Supply, scfm	78.1
Aeration Process Air Supply, scfm	1193.4
Skimmer Airlift Air Supply, scfm	10
RAS Airlift Air Supply, scfm	69.8
Digester Process Air Supply, scfm	373
Chlorine Contact Air Supply, scfm	29.2
Total Air Supply Required, scfm	1,753
Number of Blowers	2
Capacity of Blowers, scfm	1800
Blower Operating Pressure, psi	5.5

#### **ATTACHMENT TECH.01-03 DESIGN & LOADING CRITERIA** SUNDANCE COVE SUBDIVISION

#### FINAL PHASE. WWTP - ADDITIONAL 325,000 GPD CONCRETE FOR 650,000 GPD TOTAL

Parameter	Value
INFLUENT CONDITIONS	Design Criteria
Design Average Daily Flow, gpd	650,000
BOD, mg/l	300
Ratio Average/Peak Flow	4.0
Peak 2-Hour Flow, gpd	2,600,000
Peak 2-Hour Flow, gpm	1,806
BOD, lb/day	1,626
AERATED TANK CONFIGURATION	
Total Wall Height, ft	12.0
Freeboard, ft	1.5
Side Water Depth (Normal Flow)	10.50
SELECTOR ZONE	
Min. Required Detention Time, hours	2.00
Volume Required, cu ft	7,242
Area Required, sq ft	689.67
Chosen Area, sq ft	744
Volume of Chosen Area, cu ft	7,812
Detention of Chosen Area, hours	2.16
Air Supply Required @ 20 scfm/1000 cu ft	156.2
ACTIVATED SLUDGE AERATION BASINS	
Allow Aeration Basin Load, Lb BOD/1000 cu ft	35.00
Total Aeration Basin Volume Reg'd, cu ft	46,466
Aeration Basin Liquid Depth, ft	10.40
Total Aeration Basin Area Req'd, sq ft	4467.86
Chosen Aeration Basin Area, ft	5328
Aeration Basin Vol., cu ft	55,411
Aeration Basin Loading, #BOD/1000 cu ft	29.35
Total Aeration Basin Vol. cu ft (incl. Selector)	63,223
Total Aeration Basin Loading, #BOD/1000 cu ft	25.7
Detention (@Qave), hours	15.3
O2 Req'd @ 2.2 # O2/lb BOD	3,578
Correction Factor (Fine Bubble Diffusers)	0.45
Air Diffuser SOTE @10 ft Submergence., %	17.00%
Required Air Flow Rate, scfm	1,883
Temp Adjustment Factor @ 30 deg F	1.27
Adjusted Air Flow Requirements, scfm	2,387
Air Flow/Diffuser, scfm	5.9
No. Diffuser Membranes Provided	404
Diffuser Active Surface Area, sf/diffuser	0.785
Diffuser Air Flow/SF Active Membrane, scfm/sf	7.5
Air Supply, scfm/1000 cf	38

Parameter	Value
CLARIFIER	
Wall Height, ft	12
Side Water Depth,ft	10.28
Allowable Surface Overflow Rate @ Qp, gpd/sf	1,200
Diameter Based on OFR Criteria, ft	52.5
Minimum Detention @ Qp, hours	1.8
Diameter Based on Min. Detention, ft	56.8
Minimum Clarifier Diameter, ft	56.8
Chosen Clarifier Diameter, ft (each plant)	40
Center Well Diameter, ft	6
Total Settling Area, sq. ft.	2,513
Total Volume, cu. ft	25,836
Avg. SOR, gpd/sq ft	259
Peak SOR, gpd/sq ft	1,035
Avg. Detention, hr	7.14
Peak Detention, hr	1.8
Return Sludge Flow, gpm (@400 gpd/sq ft)	698.13
CHLORINE CONTACT CHAMBER	000.10
Min Peak Flow Detention Time, min	20
Required Volume, cu ft	4827.69
Wall Height, ft	12
Maximum Depth, ft	8.92
Required Surface Area, sq ft	541.22
Chosen Surface Area, sq ft	654
Volume of Chosen Area, cu ft	5,834
Detention @ Peak Flow	24.17
Air Supply Req'd, scfm (@ 10 scfm/1000 cu ft)	58.34
AEROBIC DIGESTION	00.01
Allowable Load, cu ft/Lb BOD	25
Reg'd Volume, cu ft	40,658
Reg'd Surface Area, sq ft	3,872
Chosen Surface Area, sq ft	3,548
Volume for Chosen Surface Area, cu ft	37,254
Loading for Chosen Area, cu ft/# BOD	22.91
Aeration Supply Rate, scfm/1000 cu ft	20
Total Digester Air Supply Req'd, scfm	745.08
No. Diffuser Membranes Installed	236
Air Flow Rate Per Diffuser Membrane, scfm	3.16
AIR SUPPLY BLOWERS	
Selector Zone Air Supply, scfm	156.2
Aeration Process Air Supply, scfm	2386.8
Skimmer Airlift Air Supply, scfm	20
RAS Airlift Air Supply, scfm	279.3
Digester Process Air Supply, scfm	745
Chlorine Contact Air Supply, scfm	58.3
Total Air Supply Required, scfm	3,646
Number of Blowers	4
Capacity of Blowers, scfm	1800
Blower Operating Pressure, psi	5.5

#### DESIGN FEATURES FOR RELIABILITY

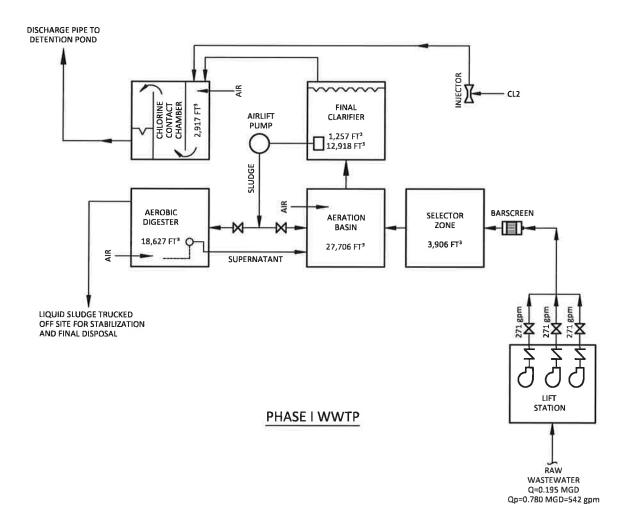
The Sundance Cove Wastewater Treatment Plant facilities have been and will continue to be designed to provide a high degree of mechanical reliability consistent with TCEQ Design Criteria. The following describe design features that are and will be incorporated at the facilities to prevent bypassing or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

- A. Minimal infiltration/inflow is anticipated since the collection system is fairly new and not subject to the effects of age and deterioration at this time. As infiltration/inflow is encountered, it will be addressed and repaired as soon as possible.
- B. The electrical service that will serve the Sundance Cove WWTP is reliable with most outages lasting less than 2-4 hours. However, Utilities Investment Company Inc. has a generator on-site for the current WWTP and will upgrade the generator as the plant is upgraded. The generator will 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 are maintained per TCEQ standards and repaired as quickly as possible should failure occur.
- E. The facilities include an auto-dialer that calls the operator in case of power outages, blower malfunctions, lift station malfunctions or high-water alarm situations.

## **ATTACHMENT TECH.02**

# **Process Flow Diagram**

(Reference Technical Report Page 2, Question 2c)



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

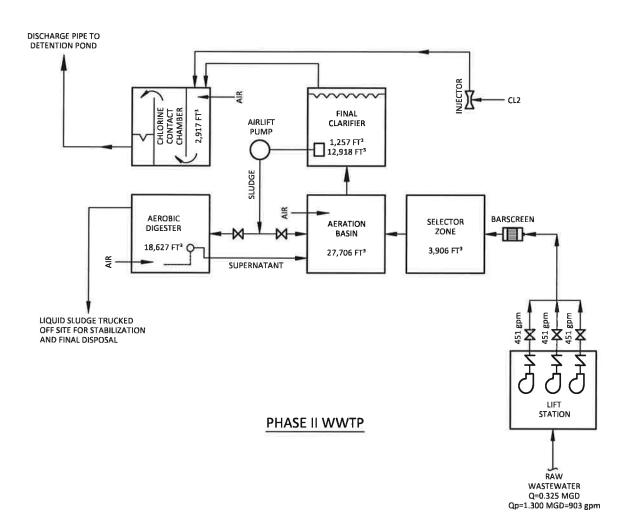
APPLICANT: UTILITIES INVESTMENT COMPANY, INC SUNDANCE COVE WWTP APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0015432001

#### **FLOW SCHEMATIC**

DWG, NO.:

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

TECH.02-1



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D HUFFMEISTER ROAD TEL: 281-373-0500
ESS. TEXAS 77429 FAX: 281-373-1113

APPLICANT: UTILITIES INVESTMENT COMPANY, INC.
SUNDANCE COVE WWTP
APPLICATION FOR A MAJOR AMENDMENT TO
TPDES PERMIT No. WQ0015432001

#### FLOW SCHEMATIC

DRAWN BY: BIR

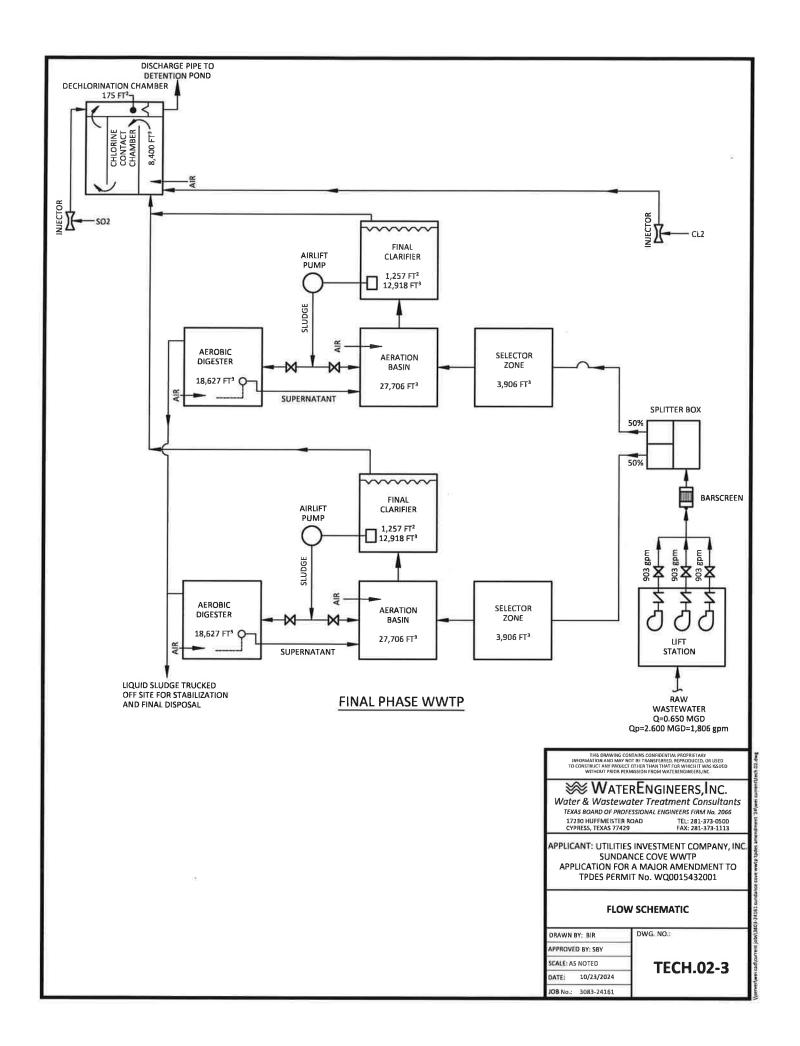
APPROVED BY: SBY

SCALE: AS NOTED

DATE: 10/23/2024

JOB No.: 3083-24161

**TECH.02-2** 



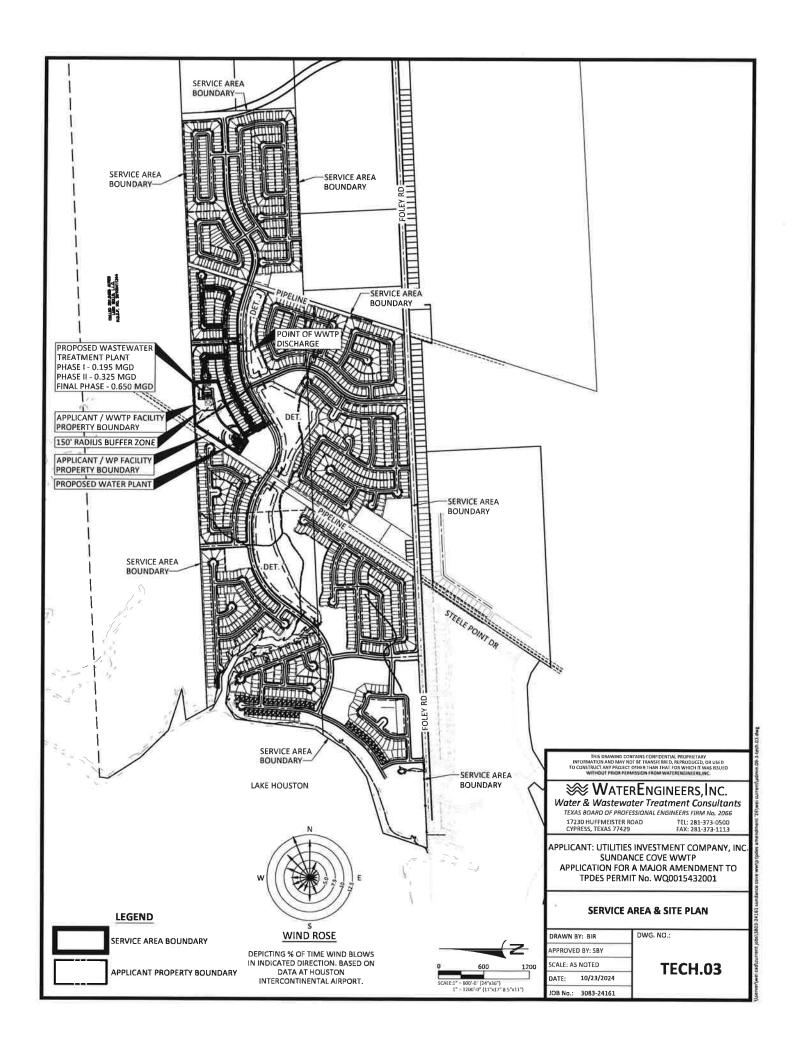
## **ATTACHMENT TECH.03**

# **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 Sundance Cove 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. Tables TECH.04-01, TECH.04-02 and TECH.04-03 show the process design and sludge generation calculations for the design flows of 195,000 gpd, 325,000 gpd and 650,000 gpd.

#### 2. Dimensions and Capacities

The Phase I treatment facility will have a digester with a total volume of 18,627 cu. ft., a surface area of 1,774 sq. ft. and a 10.5 ft. side water depth. The Phase I digester will provide a total design flow loading of 38.18 cu. ft./1b BOD. The Phase II treatment facility will use the same digester as in Phase I for a total volume of 18,627 cu. ft., surface area of 1,774 sq. ft. and a 10.5 ft. side water depth. The Phase II digesters will provide a total design flow loading of 22.91 cu. ft./1b BOD. The Phase III treatment facility will add another identical unit for a total volume of 37,254 cu. ft., surface area of 3,548 sq. ft. and a 10.5 ft. side water depth. The Phase III digesters will provide a total design flow loading of 22.91 cu. ft./1b BOD.

#### 3. Sludge Generation Calculations

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

Phase	Solids @ 100% Qavg, lb/day	Solids @ 75% Qavg, lb/day	Solids @ 50% Qavg, lb/day	Solids @ 25% Qavg, lb/day
Phase I	333	250	167	83
Phase II	555	417	278	139
Phase III	1,110	833	556	278

#### 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 Solids @50% Flow		Predicted Solids @25% Flow	
	sludge age, days	MLSS mg/l	sludge age, days	MLSS mg/l	sludge age, days	MLS S mg/l	sludge age, days	MLSS mg/l
Phase I	20	3,496	26.5	3,476	40	3,498	80	3,499
Phase II	12	3,494	16	3,495	24	3,497	48	3,499
Phase III	12	3,494	16	3,495	24	3,497	48	3,499

#### 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	@ 75 % Flow		@ 50 % Flow		@ 25 % Flow	
	Cap	acity	Capacity		Capacity		Capacity	
Phase	% Solids	Gal/ Month	% Solids	Gal/ Month	% Solids	Gal/ Month	% Solids	Gal/ Month
Phase I	2.5	37,867	2.5	28,408	2.5	18,942	2.5	9,473
Phase II	2.5	63,075	2.5	47,323	2.5	31,560	2.5	15,786
Phase III	2.5	126,150	2.5	94,646	2.5	63,120	2.5	31,572

#### 7. Identification of Disposal Site

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

#### **ATTACHMENT TECH.04-01** PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS SUNDANCE COVE SUBDIVISION

INFLUENT CONDITIONS  Design Flow Rate, mgd  Infl. BOD, mg/l Infl. TSS, mg/l Infl. VSS, mg/l BOD Loading, lb/day BOD Load, #/1000 cu ft  O.195 200 160 488 15.4			ameter, ft de Wall Depth, ft Irface Area, sq ft Ilume, cu ft	31,612 40 10.28 1,257 12,918 20
Actual Plant Loading, %	100%	75.0%	50%	25.0%
Actual Flow Rate, mgd	0.195	0.146	0.098	0.049
BOD Loading, #/Day	488	366	244	122
Ret. Sludge Rate, gpd/sq ft	400	400	400	400
Ret. Sludge Flow, mgd	0.50	0.50	0.50	0.50
t = Aeration Time, days	1.213	1.617	2.425	4.850
ts = Sludge Age, Days	20.0	26.5	40.0	80.0
Km = BOD Removal Metabolic Facto	360	360	360	360
Ks = Synthesis Factor	250	250	250	250
Ke = Endogenous Metabolism Facto	0.12	0.09	0.06	0.03
F = Effl Soluble BOD	0.69	0.51	0.34	0.17
Ma = Active Mass	1,008	1,003	1,009	1,010
Me = Endogenous Mass	581	577	<del>58</del> 1	582
Mi = Inert Organic Mass	924	9 <mark>18</mark>	<mark>924</mark>	924
Mii = Inert Inorganic Mass	984	978	984	984
Mt = Total Mass, mg/l	3,496	3,476	3,498	3,499
Total Mass in Aeration Basin, Ib	6,895	6,854	6,899	6,901
Lb BOD/Lb MLSS/Day	0.071	0.053	0.035	0.018
Effl TSS, mg/l	7	7	7	7
Effl BOD, mg/l	2	2	2	1
Studge Assumulation Ib/day	215	259	172	96
Sludge Accumulation, lb/day TSS Lost In Effluent, lb/day	345 11	259	6	86 3
Waste Sludge, lb/day	333	250	167	83
Return Sludge Conc, mg/l	4,853	4,487	4,177	3,839
Waste Sludge Conc, mg/l	4,853	4,487	4,177	3,839
Waste Sludge Flow, gpd	8,237	6,685	4,788	2,605
rradio ciaago rion, gpa	0,201	0,000	1,100	2,000
AEROBIC DIGESTER				
Volume, cu ft	18,627			
Design Loading, cu ft/lb BOD	38.18	50.90	76.36	152.71
Incoming Sludge Conc, mg/l	4,853	4,487	4,177	3,839
Thick Sludge Conc, mg/l	25,000	25,000	25,000	25,000
Detention, Days	87.14	116.13	174.18	348.26
Infl Total Solids, lb/day	333	250	167	83
Infl Active Mass, lb/day	96	72	48	24
Effl Active Mass, lb/Day	8	6	4	2
Active Mass Red., lb/day	70	53	35	18
Digester Effl Solids, lb/day	263	197	132	66
Sludge Disposed, lb/mg	1,350	1,350	1,350	1,350
Sludge Disposed, tons/mg	0.67	0.67	0.68	0.68
Sludge Hauled, gal/day	1,262	947	631	316
Sludge Hauled, gal/month	37,867	28,408	18,942	9,473

# ATTACHMENT TECH.04-02 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS SUNDANCE COVE SUBDIVISION

INFLUENT CONDITIONS				
Design Flow Rate, mgd 0.325		Aeration \	/ol. cu ft	31,612
Infl. BOD, mg/l 300		Clarifier Di		40
Infl. TSS, mg/l 200			de Wall Depth, ft	10.28
Infl. VSS, mg/l 160			urface Area, sq ft	1,257
BOD Loading, lb/day 813			olume, cu ft	12,918
BOD Load, #/1000 cu ft 25.7			ure, deg C	20
20.7		romperac	are, acg o	20
Actual Plant Loading, %	100%	<b>75.0%</b>	50%	<b>25.0%</b>
Actual Flow Rate, mgd	0.325	0.244	0.163	0.081
BOD Loading, #/Day	813	610	407	203
Ret. Sludge Rate, gpd/sq ft	400	400	400	400
Ret. Sludge Flow, mgd	0.50	0.50	0.50	0.50
t = Aeration Time, days	0.728	0.970	1.455	2.910
ts = Sludge Age, Days	12.0	16.0	24.0	48.0
Km = BOD Removal Metabolic Facto	360	360	360	360
Ks = Synthesis Factor	250	250	250	250
Ke = Endogenous Metabolism Facto	0.20	0.15	0.10	0.05
F = Effl Soluble BOD	1.14	0.86	0.57	0.29
Ma = Active Mass	1,007	1,008	1,009	1,010
Me = Endogenous Mass	580	580	581	582
Mi = Inert Organic Mass	924	924	924	924
Mii = Inert Inorganic Mass	983	984	984	984
Mt = Total Mass, mg/l	3,494	3,495	3,497	3,499
Total Mass in Aeration Basin, lb	6,890	6,893	6,896	6,900
Lb BOD/Lb MLSS/Day	0.11 <mark>8</mark>	0.088	0.059	0.029
Effl TSS, mg/l	7	7	7	<u>(</u>
Effl BOD, mg/l	2	2	2	2
Sludge Accumulation, lb/day	574	431	287	144
TSS Lost In Effluent, lb/day	19	14	9	5
Waste Sludge, lb/day	555	417	278	139
Return Sludge Conc, mg/l	5,753	5,190	<b>4</b> ,628	4,064
Waste Sludge Conc, mg/l	5,753	5,190	<mark>4,628</mark>	4,064
Waste Sludge Flow, gpd	11,572	9,624	7,200	4,101
AEROBIC DIGESTER				
Volume, cu ft	18,627			
Design Loading, cu ft/lb BOD	22.91	30.54	45.81	91.63
Incoming Sludge Conc, mg/l	5,753	5,190	4,628	4,064
Thick Sludge Conc, mg/l	25,000	25,000	25,000	25,000
Detention, Days	52.32	69.73	104.55	209.00
Infl Total Solids, lb/day	555	417	278	139
Infl Active Mass, lb/day	160	120	80	40
Effl Active Mass, lb/Day	14	10	7	4
Active Mass Red., lb/day	117	88	59	29
Digester Effl Solids, lb/day	438	329	219	110
Sludge Disposed, lb/mg	1,349	1,349	1,350	1,350
Sludge Disposed, tons/mg	0.67	0.67	0.67	0.68
Sludge Hauled, gal/day	2,102	1,577	1,052	526
Sludge Hauled, gal/month	63,075	47,323	31,560	15,786

#### **ATTACHMENT TECH.04-03** PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS SUNDANCE COVE SUBDIVISION

Actual Flow Rate, mgd	INFLUENT CONDITIONS  Design Flow Rate, mgd  Infl. BOD, mg/l  Infl. TSS, mg/l  Infl. VSS, mg/l  BOD Loading, lb/day  BOD Load, #/1000 cu ft  0.650  200  1,626  25.7		Aeration Vol, cu ft Clarifier Diameter, ft Clarifier Side Wall Depth, ft Clarifier Surface Area, sq ft Clarifier Volume, cu ft Temperature, deg C		
Actual Flow Rate, mgd	Actual Plant Loading, %	100%	75.0%	50%	25.0%
Ret. Sludge Rate, gpd/sq ft         400         400         400         440           Ret. Sludge Flow, mgd         0.50         0.50         0.50         0.50         0.50           t = Aeration Time, days         0.728         0.970         1.455         2.9           ts = Sludge Age, Days         12.0         16.0         24.0         48           Km = BOD Removal Metabolic Factx         360         360         360         360           Ks = Synthesis Factor         250	Actual Flow Rate, mgd	0.650	0.488	0.325	0.163
Ret. Sludge Flow, mgd       0.50       0.50       0.50       0.50         t = Aeration Time, days       0.728       0.970       1.455       2.9         ts = Sludge Age, Days       12.0       16.0       24.0       48         Km = BOD Removal Metabolic Factc       360       360       360       36         Ks = Synthesis Factor       250       250       250       25         Ke = Endogenous Metabolism Facto       0.20       0.15       0.10       0.1         F = Effl Soluble BOD       1.14       0.86       0.57       0.3         Ma = Active Mass       1,007       1,008       1,009       1,0         Me = Endogenous Mass       580       580       581       56         Mi = Inert Iorganic Mass       924       924       924       92         Mi = Inert Iorganic Mass       983       984       984       98         Mt = Total Mass, mg/l       3,494       3,495       3,497       3,48         Total Mass in Aeration Basin, lb       13,779       13,786       13,793       13,79         Lb BOD/Lb MLSS/Day       0.118       0.088       0.059       0.05         Effl TSS, mg/l       7       7       7       7	· ·	1626	1220	813	407
t = Aeration Time, days  ts = Sludge Age, Days  Km = BOD Removal Metabolic Factc  Ks = Synthesis Factor  E = Effl Soluble BOD  Ma = Active Mass  Mi = Inert lorganic Mass  Mt = Total Mass, mg/l  Total Mass in Aeration Basin, lb  Effl TSS, mg/l  Effl BOD, mg/l  Sludge Accumulation, lb/day  TSS Lost In Effluent, lb/day  Waste Sludge Conc, mg/l  Waste Sludge Flow, gpd  Incoming Sludge Conc, mg/l  Lesson Age Sin Age Sin Age  Mine Son Bod Sin Age  Mine Son Sin Age  Mine Sin Age Sin Age  Mine S	Ret. Sludge Rate, gpd/sq ft	400	400	400	400
ts = Sludge Age, Days         12.0         16.0         24.0         48           Km = BOD Removal Metabolic Factc         360         360         360         360           Ks = Synthesis Factor         250         250         250         25           Ke = Endogenous Metabolism Facto         0.20         0.15         0.10         0.0           F = Effl Soluble BOD         1.14         0.86         0.57         0.3           Ma = Active Mass         1,007         1,008         1,009         1,0           Ma = Active Mass         1,007         1,008         1,009         1,0           Me = Endogenous Mass         580         580         581         56           Mi = Inert Organic Mass         924 <td< td=""><td></td><td>0.50</td><td>0.50</td><td>0.50</td><td>0.50</td></td<>		0.50	0.50	0.50	0.50
Km = BOD Removal Metabolic Facto       360       360       360       360         Ks = Synthesis Factor       250       250       250       250         Ke = Endogenous Metabolism Facto       0.20       0.15       0.10       0.0         F = Effl Soluble BOD       1.14       0.86       0.57       0.3         Ma = Active Mass       1,007       1,008       1,009       1,0         Me = Endogenous Mass       580       580       581       56         Mi = Inert Organic Mass       983       984       984       984         Mi = Inert Inorganic Mass       983       984       984       984         Mt = Total Mass, mg/l       3,494       3,495       3,497       3,49         Total Mass in Aeration Basin, lb       13,779       13,786       13,793       13,79         Lb BOD/Lb MLSS/Day       0.118       0.088       0.059       0.02         Effl TSS, mg/l       7       7       7       7         Effl BOD, mg/l       2       2       2         Sludge Accumulation, lb/day       1148       862       575       26         TSS Lost In Effluent, lb/day       38       28       19         Waste Sludge Conc, mg/l <td></td> <td>0.728</td> <td></td> <td>1.455</td> <td>2.910</td>		0.728		1.455	2.910
Ks = Synthesis Factor         250         250         250         250           Ke = Endogenous Metabolism Facto         0.20         0.15         0.10         0.15           F = Effl Soluble BOD         1.14         0.86         0.57         0.3           Ma = Active Mass         1,007         1,008         1,009         1,00           Me = Endogenous Mass         580         580         581         56           Mi = Inert Organic Mass         924					48.0
Ke = Endogenous Metabolism Facto         0.20         0.15         0.10         0.15           F = Effl Soluble BOD         1.14         0.86         0.57         0.3           Ma = Active Mass         1,007         1,008         1,009         1,00           Me = Endogenous Mass         580         580         581         56           Mi = Inert Organic Mass         924         924         924         924           Mii = Inert Inorganic Mass         983         984         984         98           Mt = Total Mass, mg/l         3,494         3,495         3,497         3,497           Total Mass in Aeration Basin, lb         13,779         13,786         13,793         13,773           Lb BOD/Lb MLSS/Day         0.118         0.088         0.059         0.03           Effl TSS, mg/l         7         7         7         7           Effl BOD, mg/l         2         2         2         2           Sludge Accumulation, lb/day         1148         862         575         26           TSS Lost ln Effluent, lb/day         1148         862         575         26           Waste Sludge, lb/day         1110         833         556         22					360
F = EffI Soluble BOD       1.14       0.86       0.57       0.3         Ma = Active Mass       1,007       1,008       1,009       1,00         Me = Endogenous Mass       580       580       581       56         Mi = Inert Organic Mass       924       924       924       924         Mii = Inert Inorganic Mass       983       984       984       98         Mt = Total Mass, mg/l       3,494       3,495       3,497       3,49         Total Mass in Aeration Basin, lb       13,779       13,786       13,793       13,79         Lb BOD/Lb MLSS/Day       0.118       0.088       0.059       0.03         EffI TSS, mg/l       7       7       7       7         EffI BOD, mg/l       2       2       2       2         Sludge Accumulation, lb/day       1148       862       575       26         TSS Lost In Effluent, lb/day       38       28       19         Waste Sludge, lb/day       1110       833       556       23         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,20         AEROBIC DIGES	•				250
Ma = Active Mass       1,007       1,008       1,009       1,00         Me = Endogenous Mass       580       580       581       56         Mi = Inert Organic Mass       924       924       924       924         Mii = Inert Inorganic Mass       983       984       984       98         Mt = Total Mass, mg/l       3,494       3,495       3,497       3,49         Total Mass in Aeration Basin, lb       13,779       13,786       13,793       13,79         Lb BOD/Lb MLSS/Day       0.118       0.088       0.059       0.02         Effl TSS, mg/l       7       7       7       7         Effl BOD, mg/l       2       2       2       2         Sludge Accumulation, lb/day       1148       862       575       26         TSS Lost In Effluent, lb/day       38       28       19         Waste Sludge, lb/day       1110       833       556       25         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,26         AEROBIC DIGESTER       Volume, cu ft       37,254       30.54       45.81       91.6	-				0.05
Me = Endogenous Mass       580       580       581       56         Mi = Inert Organic Mass       924       924       924       924         Mii = Inert Inorganic Mass       983       984       984       984         Mt = Total Mass, mg/l       3,494       3,495       3,497       3,44         Total Mass in Aeration Basin, lb       13,779       13,786       13,793       13,79         Lb BOD/Lb MLSS/Day       0.118       0.088       0.059       0.02         Effl TSS, mg/l       7       7       7       7         Effl BOD, mg/l       2       2       2       2         Sludge Accumulation, lb/day       1148       862       575       26         TSS Lost In Effluent, lb/day       38       28       19         Waste Sludge, lb/day       1110       833       556       25         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,26         AEROBIC DIGESTER       37,254         Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012 <t< td=""><td></td><td></td><td></td><td></td><td>0.29</td></t<>					0.29
Mi = Inert Organic Mass       924       924       924       924         Mii = Inert Inorganic Mass       983       984       984       98         Mt = Total Mass, mg/l       3,494       3,495       3,497       3,44         Total Mass in Aeration Basin, lb       13,779       13,786       13,793       13,78         Lb BOD/Lb MLSS/Day       0.118       0.088       0.059       0.02         Effl TSS, mg/l       7       7       7       7         Effl BOD, mg/l       2       2       2       2         Sludge Accumulation, lb/day       1148       862       575       26         TSS Lost In Effluent, lb/day       1148       862       575       26         TSS Lost In Effluent, lb/day       38       28       19         Waste Sludge, lb/day       1110       833       556       25         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,65         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,26         AEROBIC DIGESTER       7       7       7       7       7       7       7       7       7         Volume, cu ft       37,254       7		•			582
Mii = Inert Inorganic Mass       983       984       984       98         Mt = Total Mass, mg/l       3,494       3,495       3,497       3,49         Total Mass in Aeration Basin, lb       13,779       13,786       13,793       13,79         Lb BOD/Lb MLSS/Day       0.118       0.088       0.059       0.02         Effl TSS, mg/l       7       7       7       7         Effl BOD, mg/l       2       2       2       2         Sludge Accumulation, lb/day       1148       862       575       28         TSS Lost In Effluent, lb/day       38       28       19         Waste Sludge, lb/day       1110       833       556       25         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,20         AEROBIC DIGESTER       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254       7,254	_				924
Mt = Total Mass, mg/l       3,494       3,495       3,497       3,497         Total Mass in Aeration Basin, lb       13,779       13,786       13,793       13,79         Lb BOD/Lb MLSS/Day       0.118       0.088       0.059       0.02         Effl TSS, mg/l       7       7       7       7         Effl BOD, mg/l       2       2       2       2         Sludge Accumulation, lb/day       1148       862       575       28         TSS Lost In Effluent, lb/day       38       28       19         Waste Sludge, lb/day       1110       833       556       25         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,20         AEROBIC DIGESTER       7,264       7,264       7,264       7,264         Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Thick Sludge Conc, mg/l       25,000       25,000       25,000       25,000 <td><del>-</del></td> <td></td> <td></td> <td></td> <td>984</td>	<del>-</del>				984
Total Mass in Aeration Basin, lb         13,779         13,786         13,793         13,793           Lb BOD/Lb MLSS/Day         0.118         0.088         0.059         0.02           Effl TSS, mg/l         7         7         7         7           Effl BOD, mg/l         2         2         2         2           Sludge Accumulation, lb/day         1148         862         575         28           TSS Lost In Effluent, lb/day         38         28         19           Waste Sludge, lb/day         1110         833         556         25           Return Sludge Conc, mg/l         8,012         6,885         5,758         4,65           Waste Sludge Conc, mg/l         8,012         6,885         5,758         4,65           Waste Sludge Flow, gpd         16,619         14,510         11,572         7,26           AEROBIC DIGESTER         7,264         7,					3,499
Lb BOD/Lb MLSS/Day       0.118       0.088       0.059       0.02         Effl TSS, mg/l       7       7       7       7         Effl BOD, mg/l       2       2       2       2         Sludge Accumulation, lb/day       1148       862       575       28         TSS Lost In Effluent, lb/day       38       28       19         Waste Sludge, lb/day       1110       833       556       2         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,26         AEROBIC DIGESTER       Volume, cu ft         Volume, cu ft       37,254         Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Thick Sludge Conc, mg/l       25,000       25,000       25,000       25,000       25,000					13,799
Effl BOD, mg/l 2 2 2 2  Sludge Accumulation, lb/day 1148 862 575 26 TSS Lost In Effluent, lb/day 38 28 19  Waste Sludge, lb/day 1110 833 556 27 Return Sludge Conc, mg/l 8,012 6,885 5,758 4,63 Waste Sludge Conc, mg/l 8,012 6,885 5,758 4,63 Waste Sludge Flow, gpd 16,619 14,510 11,572 7,20  AEROBIC DIGESTER  Volume, cu ft 37,254  Design Loading, cu ft/lb BOD 22.91 30.54 45.81 91.6 Incoming Sludge Conc, mg/l 8,012 6,885 5,758 4,63 Thick Sludge Conc, mg/l 25,000 25,000 25,000 25,000					0.029
Sludge Accumulation, lb/day       1148       862       575       28         TSS Lost In Effluent, lb/day       38       28       19         Waste Sludge, lb/day       1110       833       556       25         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,20         AEROBIC DIGESTER       Volume, cu ft         Volume, cu ft       37,254         Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Thick Sludge Conc, mg/l       25,000       25,000       25,000       25,000       25,000	Effl TSS, mg/l	7	7	7	7
TSS Lost In Effluent, Ib/day       38       28       19         Waste Sludge, Ib/day       1110       833       556       25         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,20         AEROBIC DIGESTER       Volume, cu ft         Volume, cu ft       37,254         Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Thick Sludge Conc, mg/l       25,000       25,000       25,000       25,000       25,000	Effl BOD, mg/l	2	2	2	2
TSS Lost In Effluent, Ib/day       38       28       19         Waste Sludge, Ib/day       1110       833       556       25         Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,20         AEROBIC DIGESTER       Volume, cu ft         Volume, cu ft       37,254         Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Thick Sludge Conc, mg/l       25,000       25,000       25,000       25,000       25,000		4445			
Waste Sludge, Ib/day         1110         833         556         27           Return Sludge Conc, mg/l         8,012         6,885         5,758         4,63           Waste Sludge Conc, mg/l         8,012         6,885         5,758         4,63           Waste Sludge Flow, gpd         16,619         14,510         11,572         7,20           AEROBIC DIGESTER         Volume, cu ft         37,254           Design Loading, cu ft/lb BOD         22.91         30.54         45.81         91.6           Incoming Sludge Conc, mg/l         8,012         6,885         5,758         4,63           Thick Sludge Conc, mg/l         25,000         25,000         25,000         25,000	•				287
Return Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,20         AEROBIC DIGESTER       Volume, cu ft         Volume, cu ft       37,254         Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Thick Sludge Conc, mg/l       25,000       25,000       25,000       25,000					9
Waste Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Waste Sludge Flow, gpd       16,619       14,510       11,572       7,20         AEROBIC DIGESTER       Volume, cu ft         Volume, cu ft       37,254         Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Thick Sludge Conc, mg/l       25,000       25,000       25,000       25,000					278 4.630
Waste Sludge Flow, gpd       16,619       14,510       11,572       7,20         AEROBIC DIGESTER       Volume, cu ft       37,254         Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Thick Sludge Conc, mg/l       25,000		•	•		
AEROBIC DIGESTER  Volume, cu ft  Design Loading, cu ft/lb BOD  Incoming Sludge Conc, mg/l  Thick Sludge Conc, mg/l  25,000  37,254  22.91  30.54  45.81  91.63  4,63  25,000  25,000  25,000  25,000  25,000		•		· ·	
Volume, cu ft         37,254           Design Loading, cu ft/lb BOD         22.91         30.54         45.81         91.6           Incoming Sludge Conc, mg/l         8,012         6,885         5,758         4,63           Thick Sludge Conc, mg/l         25,000         25,000         25,000         25,000	vvacto chaage i low, gpa	10,010	14,010	11,072	1,200
Design Loading, cu ft/lb BOD       22.91       30.54       45.81       91.6         Incoming Sludge Conc, mg/l       8,012       6,885       5,758       4,63         Thick Sludge Conc, mg/l       25,000       25,000       25,000       25,000	AEROBIC DIGESTER				
Incoming Sludge Conc, mg/l         8,012         6,885         5,758         4,63           Thick Sludge Conc, mg/l         25,000         25,000         25,000         25,000	Volume, cu ft	37,254			
Thick Sludge Conc, mg/l 25,000 25,000 25,000 25,000	Design Loading, cu ft/lb BOD	22.91	30.54	45.81	91.63
	Incoming Sludge Conc, mg/l	8,012	6,885	5,758	4,630
Detention, Days 52.32 69.73 104.55 209.0		25,000		25,000	25,000
					209.00
					278
					80
Effl Active Mass, lb/Day 28 21 14	The state of the s				7
· · · · · · · · · · · · · · · · · · ·	•				59
<del>-</del>	= -				219
					1,350 0.68
					1,052
					31,572

# ATTACHMENT TECH.05 Pollutant Analysis of Treated Effluent

(Reference Technical Report Pages 9-10, Section 7)



# Chaparral Laboratories, Inc.



861 State Hwy 19 P.O. Box 1622 Huntsville, TX 77342-1622

www.chaparrallabs.com

Phone: 936-291-1881 Fax: 936-295-1731

#### Certificate of Analysis

Aqua Pure

Attn: Shannon Marsh

P.O. Box 279

New Waverly, TX 77358

Customer ID: AQPURE

Sample ID: 24100594

Date Received: 10/14/2024

Date Reported: 10/24/2024

Project: Sundance Cove STP Location: Harris County, TX

#### **Analytical Results**

Collection Point: Effluent Flow (MGD): 0,0016 Collected: 10/14/2024 08:44 Sample Type: Grab Collector: DKH

**Parameter** Result **Units** Date/Time Analyst Bottle Method OC ID Acrd CBOD5 <3.0 mg/L 10/16/2024 07:30 EIB -01 SM 5210 B QC2410282 NELAP 4.4 mg/L 10/16/2024 09:28 JAM -02 SM 2540 D QC2410289

TSS NELAP Alkalinity 48.0 mg/L CaCO3 10/18/2024 12:00 DKH -03 SM 2320 B QC2410334 **NELAP** Ammonia Nitrogen < 0.1 mg/L 10/16/2024 09:01 ICG -03 SM 4500-NH3 D QC2410285 **NELAP** Total Kjeldahl Nitrogen <1.1 mg/L 10/18/2024 08:53 JCG -03 SM 4500-NH3 C QC2410361 NELAP Total Phosphorus 5.1 mg/L 10/23/2024 07:31 JCG -03 SM 4500-P E QC2410460 NELAP

Collection Point: Effluent Sample Type: Grab

Flow (MGD): 0.0016

Collected: 10/14/2024 08:47

Collector: DKH

**Parameter** Result **Units** Date/Time OC ID Analyst Bottle Method Acrd Chloride 98.5 mg/L 10/14/2024 13:23 DKH EPA 300.0 OC2410358 **NELAP** Nitrate Nitrogen 31.8 mg/L 10/14/2024 13:23 DKH -04 EPA 300.0 QC2410359 **NELAP** Sulfate 25.2 10/14/2024 13:23 DKH mg/L -04 EPA 300.0 QC2410360 NELAP Total Dissolved Solids 596.0 10/16/2024 17:38 mg/L SM 2540 C QC2410339 NELAP

Collection Point: Effluent Flow (MGD): 0,0016 Collected: 10/14/2024 08:50 Sample Type: Grab Collector: DKH

**Parameter OC ID** Result **Units Date/Time** Analyst Bottle Method Acrd Escherichia coli <1.0 MPN/100mL 10/14/2024 15:45 EIB SM 9223 B QC2410274 NELAP

Collection Point: Effluent Flow (MGD): 0.0016 Collected: 10/14/2024 08:53

Sample Type: Grab Collector: DKH

**Parameter** Result **Units** Date/Time **OCID** Analyst Bottle Method Acrd Chlorine, Residual (Total) 10/14/2024 08:53 2.2 DKH SM 4500-Cl F mg/L -06 QC2410272 Field Dissolved Oxygen 8.0 mg/L 10/14/2024 08:53 DKH -06 SM 4500-O G QC2410271 Field pΗ 7.8 SU 10/14/2024 08:53 DKH SM 4500-H+B QC2410270 Field



# Chaparral Laboratories, Inc.



861 State Hwy 19 P.O. Box 1622 Huntsville, TX 77342-1622 www.chaparrallabs.com

Phone: 936-291-1881 Fax: 936-295-1731

#### **Certificate of Analysis**

Aqua Pure

Attn: Shannon Marsh

P.O. Box 279

New Waverly, TX 77358

Customer ID: AQPURE

Sample ID: 24100594

Date Received: 10/14/2024

Date Reported: 10/24/2024

Project: Sundance Cove STP Location: Harris County, TX

#### **Quality Control**

		Quality Control			
OC ID	<u>Param</u>	OC Type	Result	<u>Units</u>	<u>Flag</u>
QC2410270	pН				
		Duplicate %RPD	0	%	
QC2410271	Dissolved Oxygen				
		Duplicate %RPD	0	%	
QC2410272	Chlorine, Residual (Total)				
		Duplicate %RPD	0	%	
		LCS	100	%	
		Method Blank	<0.1	mg/L	
QC2410274	Escherichia coli				
		Method Blank	<1.0	MPN/100mL	
		Precision Criteria	Acceptable		
QC2410282	CBOD5				
		Duplicate %RPD	0	%	
		Duplicate %RPD	0	%	
		LCS	102.9	%	
		Method Blank	0,2	mg/L	
QC2410285	Ammonia Nitrogen				
		Duplicate %RPD	5	%	
		Duplicate %RPD	0	%	
		LCS	110	%	
		Method Blank	<0.1	mg/L	
		MS %R	102	%	
		MS %R	104.4	%	
		MSD %R	102	%	
		MSD %R	102.4	%	





861 State Hwy 19 P.O. Box 1622 Huntsville, TX 77342-1622 www.chaparrallabs.com Phone: 936-291-1881 Fax: 936-295-1731

3.1

#### **Certificate of Analysis**

Aqua Pure	
-----------	--

Attn: Shannon Marsh

P.O. Box 279

QC2410334

New Waverly, TX 77358

Customer ID: AQPURE

Sample ID: 24100594

Date Received: 10/14/2024

**Date Reported:** 10/24/2024

%

mg/L

% %

mg/L CaCO3

Project:	Sundance Cove STP
Location:	Harris County, TX

Location:	Harris	County, TX	
QC241028	39	TSS	

	Duplicate %RPD	3.5
	LCS	96
	Method Blank	<2.5
Alkalinity		
	Duplicate %RPD	0.8
	Duplicate %RPD	0.9
	LCS	101.6
	Method Blank	<5.0
Total Dissolved Solids		
	Duplicate %PPD	1.0

Duplicate %RPD

QC2410339	Total Dissolved Solids			
		Duplicate %RPD	1:8	%
		LCS	103.2	%
		Method Blank	<5.0	mg/L
QC2410358	Chloride			
		Duplicate %RPD	0	%
		LCS	100.8	%
		Method Blank	<0.3	mg/L
		MS %R	106.8	%
		MSD %R	106.1	%
QC2410359	Nitrate Nitrogen			
		Duplicate %RPD	0	%

LCS	95.8	%
Method Blank	<0.1	mg/L
MS %R	101.4	%
MSD %R	100.8	%





861 State Hwy 19 P.O. Box 1622 Huntsville, TX 77342-1622 www.chaparrallabs.com

Phone: 936-291-1881 Fax: 936-295-1731

#### **Certificate of Analysis**

Aqua Pure

Attn: Shannon Marsh

P.O. Box 279

New Waverly, TX 77358

Customer ID: AQPURE

Sample ID: 24100594

**Date Received:** 10/14/2024

**Date Reported: 10/24/2024** 

Project: Sundance Cove STP Location: Harris County, TX

QC2410360

QC2410361

QC2410460

Sulfate

Sulfate			
	Duplicate %RPD	0	%
	LCS	104.3	%
	Method Blank	<0.3	mg/L
	MS %R	109.5	%
	MSD %R	108.7	%
Total Kjeldahl Nitrogen			
	Duplicate %RPD	0	%
	LCS	101	%
	Method Blank	<1.1	mg/L
	MS %R	95	%
	MSD %R	101	%
Total Phosphorus			
	Duplicate %RPD	0	%
	LCS	100	%
	Method Blank	<0.01	mg/L
	MS %R	95	%
	MSD %R	95	%





861 State Hwy 19 P.O. Box 1622 Huntsville, TX 77342-1622 www.chaparrallabs.com Phone: 936-291-1881

Fax: 936-295-1731

#### Certificate of Analysis

Aqua Pure

Attn: Shannon Marsh

P.O. Box 279

New Waverly, TX 77358

Customer ID: AQPURE

Sample ID: 24100594

Date Received: 10/14/2024

Date Reported: 10/24/2024

Project: Sundance Cove STP Location: Harris County, TX

The analytical results in this Certificate of Analysis relate only to the samples tested. This Certificate of Analysis, with its corresponding Chain of Custody, completes the data package. This data package may not be reproduced, except in full, without the written approval of Chaparral Laboratories, Inc.

(<) = Result was below quantitation limits.

(>) = Result was above quantitation limits.

Acceptable = meets Precision Criteria

Unacceptable = does not meet Precision Criteria.

Samples analyzed for Oxygen Uptake Rate are diluted to <2% total solids for analysis.

Results reported as mg/kg, %, or CFU/g/TS are calculated on a dry weight basis, unless otherwise noted.

Precision Criteria for Fecal Coliform, Escherichia coli and Enterococci analyses are calculated according to SM 9020 B 8.5.b.

\*Note 1: Laboratory Approval by TCEQ

\*Note 11: The form TCEQ-10525 (Rev. 11/2023) submitted to Chaparral Laboratories, Inc. is TCEQ's required documentation for all active PWS Total Coliform analysis on Drinking Water in the State of Texas. Please refer to the completed form TCEQ-10525 (Rev. 11/2023) for all reporting purposes.

> Approved by David H. Veinotte Laboratory Director



861 State Hwy 19 P.O. Box 1622 Huntsville, TX. 77342 www.chaparrallabs.com reports@chaparrallabs.com Phone: 936-291-1881 FAX: 936-295-1731

Chain of Custody Record

CLJ-727	COC Page	1 of 1	Report to: 0	narshwat	Report to: marshwaterman@aol.com	Sample Type	e Bottle Code	-						
	Aqua Pure						8	Amber	3	Preservative Code		Lab remarks:		
	Shannon Marsh	<i>T</i>				24 Hr. Comp			= H2SO4 RIL	1.				
Address:	P.O. Box 279		Invoicing to	: marshw	Invoicing to: marshwaterman@aol.com	Om Comp	w - mowaribag		= NaOH RIL					
City, State, Zip:	New Waverly, TX, 77358	TX. 77358				Matrix Code D = Drinking	e Water	70	→ N	alvsis				
	(713) 302-3828		PO#			NP = Non-Pat Water S = Solids/Soil	ot Water	o ×	8 = Other RIL - 9 = EDA RIL -	Ϊ.				
Project ID:	Sundance	Sundance Cove STP			Project Address:		Sundance Lks Dr. Crosby, TX 77532, USA	Crosby, T	77532	JSA		Callection	Collection Schoolnle: Wadness	over
Sampled by:	DX	Key/Combo:	3700		Weir Angle:	90	Opera	Operator Name:	Shanme	Shanmon Marsh		Operator Cell:	Cell: 713-302-3828	3828
Lab Use Only	nly Rottle#	Collection Doint			Date	Time	Flow	Bottle	Vol	Pres.		THE REAL PROPERTY.	SCHOOL STATE OF THE PARTY OF TH	NAME OF PERSONS ASSESSED.
		Concession Cont.	27/00	N. I. S. S.	Collected	Conscien	(mga)	Code	(mis)	Code			Analysis	
HICOOLL		EFF	Grab	A N	10/11/21	hh:&	0. Ook	P	1000	-			CBOD5	
	02	EFF	Grab	Ş		_		P	1000	-			TSS	
	03	EPF	Grab	NP		•		P	500	1, 2		NEHN.	NH3N, TKN, T-P, Alkalinity	
	40	EFF	Grab	Z'P		47:2		-p	1000	-		Chlorid	Chloride, NO3N, SO4, TDS	
	05	EFF	Grab	NP		8:50		P	250	1.6			E coh	
+	06	EFF	Grab	NP	<	8.53	<			7	PH 7-8/7-3	3 226/22 mus		CL2 2. 2/2. Z
								+						
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Sample Condition			Police		The second second		TUNISH STATES	No. of the		The same	THE TAX PARTITION	ない ない 日本		THE PERSON NAMED IN
Sample Conditions Samples Intact: Y Client Therm	as Received for	Sample Conditions as Received from Client (in field): Samples Infact: Y N NA Received on Ice: Y N NA Tump (Client Therm):	Relina	Relinquished by:	the	Date:	e 1 m/24	Time:	00		Received by:		Date:	Time:
Actual Temp (CLI Therm): Corrected Temp (CLI Therm): CLI Thermometer ID:	); herm); J Therm);	, c				1								
Sample Conditions as Received by Lab:	as Received by	1 by Lab:	П								appen W.	Vinsinke	10/14/24	1100
Cooler ID#: 27. Actual Temperature: CO		(	Notes	: Cl2 reac	Notes: C12 reading before Mn correction:	correction: 3	16 mg/L		Mn correction for C	for CI2	12 analysis: 1.4	mg/L		
			_											

#### **ATTACHMENT TECH.06**

#### **Development Schedule**

(Reference Technical Report Page 20, Section 1A)

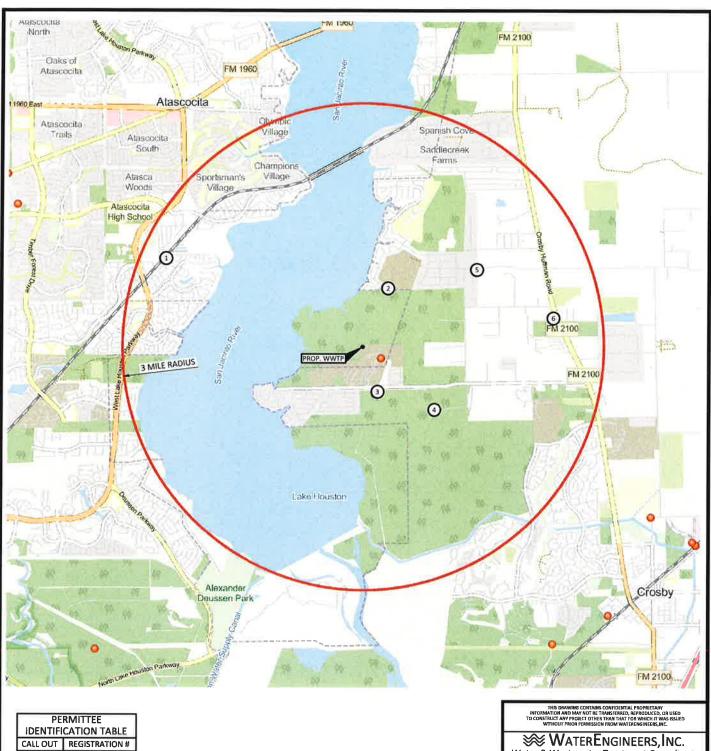
### UTILITIES INVESTMENT COMPANY, INC. SUNDANCE COVE WASTEWATER TREATMENT PLANT WQ00 NEW

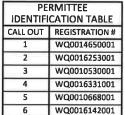
#### DEVELOPMENT SCHEDULE

	NUMBER C	OF ESFC	
YEAR	CONNEC	TIONS	
			GALLONS
	ANNUAL	TOTAL	TO WWTP
Current	350	350	78750 1ST 0.325 mgd WWTP already constructed
End 2026	300	650	146250
End 2027	300	950	213750
End 2028	300	1250	281250
End 2029	300	1550	348750 2nd 0.325 mgd WWTP constructed by Q2 2029
End 2030	300	1850	416250
End 2031	300	2150	483750
End 2032	250	2400	540000

## ATTACHMENT TECH.07 Three Mile Radius Map and Service Availability Correspondence

(Reference Technical Report Page 20, Section 1B3)





Water & Wastewater Treatment Consultants TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM NO. 2066 17230 HUFFMEISTER ROAD TEL: 281-373-5050 CYPRES, TEXAS 77429 FAX: 281-373-1113

APPLICANT: UTILITIES INVESTMENT COMPANY, INC SUNDANCE COVE WWTP APPLICATION FOR A MAJOR AMENDMENT TO TPDES PERMIT No. WQ0015432001

#### THREE MILE RADIUS PERMITEE MAP

	DRAWN	Y: BIR
	APPROVE	D BY: SBY
,	SCALE: AS	NOTED
	DATE:	10/24/2024
	JOB No.:	3083-24161

DWG. NO.:

**TECH.07** 



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

October 17, 2024

Cert. Mail Receipt 7022 2410 0002 3501 2906

544 WD LLC 11550 Fuqua Street, Suite 475 Houston, TX 77034

Re:

TPDES Permit No. WO0016253001

Dear Permittee:

We are writing to you on behalf of Utilities Investment Company, Inc. regarding a proposed wastewater treatment plant expansion project to serve the Sundance Cove residential development located on the north side of Foley Road, approximately 2.75 west of FM 2100 in Harris County as shown on the attached map. The proposed wastewater system will serve approximately 2400 equivalent single-family connections. Utilities Investment Company, Inc. is in the process of applying for a major amendment TCEQ Wastewater Discharge Permit No. WQ0015432001 for 650,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or districts or sewer CCN holders within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant, a district or sewer CCN holder, located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

We will appreciate receiving a response from you indicating if 650,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at <a href="mailto:syoung@waterengineers.com">syoung@waterengineers.com</a> or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely,

WATERENGINEERS, INC.

#### Shelley Young

Shelley Young, P.E.

	REPLY ANALY AL	
Date of Reply: 11/4/24	Signature: /////////	
Name of Permittee: 544 WD L2C	Printed Name: Alan R Mueller	
Capacity Available (Yes No)?	Title: Dic of operations	
Terms (if available)	Address: 3027 Morra Bay Dr #315	>
<del>20</del>	League C.L. Tx 77573	
	Telephone: 832 512 1208	
	Email: a/an muelles ewindyh. Il.la	



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

October 17, 2024

Cert. Mail Receipt 7022 2410 0002 3501 2944

East Lake Houston Management District 9610 Long Point Road, Suite 150 Houston, TX 77055

Re:

TPDES Permit No. WQ0016142001

Dear Permittee:

We are writing to you on behalf of Utilities Investment Company, Inc. regarding a proposed wastewater treatment plant expansion project to serve the Sundance Cove residential development located on the north side of Foley Road, approximately 2.75 west of FM 2100 in Harris County as shown on the attached map. The proposed wastewater system will serve approximately 2400 equivalent single-family connections. Utilities Investment Company, Inc. is in the process of applying for a major amendment TCEQ Wastewater Discharge Permit No. WQ0015432001 for 650,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or districts or sewer CCN holders within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant, a district or sewer CCN holder, located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

We will appreciate receiving a response from you indicating if 650,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at <a href="mailto:syoung@waterengineers.com">syoung@waterengineers.com</a> or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely, WATERENGINEERS, INC.

#### Shelley Young

Shelley Young, P.E.

	REPLY	
Date of Reply:	Signature:	
Name of Permittee:		
Capacity Available (Yes / No)?	Title:	
Terms (if available)	Address:	
	Televile	
	Email:	



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

October 17, 2024

Cert. Mail Receipt 7022 2410 0002 3501 2890

City of Houston 10500 Bellaire Blvd. Houston, TX 77072

Re:

TPDES Permit No. WQ0014650001

Dear Permittee:

We are writing to you on behalf of Utilities Investment Company, Inc. regarding a proposed wastewater treatment plant expansion project to serve the Sundance Cove residential development located on the north side of Foley Road, approximately 2.75 west of FM 2100 in Harris County as shown on the attached map. The proposed wastewater system will serve approximately 2400 equivalent single-family connections. Utilities Investment Company, Inc. is in the process of applying for a major amendment TCEQ Wastewater Discharge Permit No. WQ0015432001 for 650,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or districts or sewer CCN holders within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant, a district or sewer CCN holder, located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

We will appreciate receiving a response from you indicating if 650,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at <a href="mailto:syoung@waterengineers.com">syoung@waterengineers.com</a> or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely, WATERENGINEERS, INC.

#### Shelley Young

Shelley Young, P.E.

	REPLY	
Date of Reply:	Signature:	
Name of Permittee:		
Capacity Available (Yes / No)?	Title:	
Terms (if available)		
	Telephone: Email:	



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

October 17, 2024

Cert. Mail Receipt 7022 2410 0002 3501 2913

Harris County WCID No. 70 2935 Foley Road Crosby, TX 77532

Re:

TPDES Permit No. WQ0010530001

Dear Permittee:

We are writing to you on behalf of Utilities Investment Company, Inc. regarding a proposed wastewater treatment plant expansion project to serve the Sundance Cove residential development located on the north side of Foley Road, approximately 2.75 west of FM 2100 in Harris County as shown on the attached map. The proposed wastewater system will serve approximately 2400 equivalent single-family connections. Utilities Investment Company, Inc. is in the process of applying for a major amendment TCEQ Wastewater Discharge Permit No. WQ0015432001 for 650,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or districts or sewer CCN holders within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant, a district or sewer CCN holder, located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

We will appreciate receiving a response from you indicating if 650,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at <a href="mailto:syoung@waterengineers.com">syoung@waterengineers.com</a> or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely, WATERENGINEERS, INC.

#### Shelley Young

Shelley Young, P.E.

	REPLY	
Date of Reply:	Signature:	
Name of Permittee:		
Capacity Available (Yes / No)?	Title:	
Terms (if available)		
	Email:	



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

October 17, 2024

Cert. Mail Receipt 7022 2410 0002 3501 2920

Lennar Homes of Texas Land and Construction LTD 681 Greens Parkway, Suite 220 Houston, TX 77067

Re:

TPDES Permit No. WQ0016331001

Dear Permittee:

We are writing to you on behalf of Utilities Investment Company, Inc. regarding a proposed wastewater treatment plant expansion project to serve the Sundance Cove residential development located on the north side of Foley Road, approximately 2.75 west of FM 2100 in Harris County as shown on the attached map. The proposed wastewater system will serve approximately 2400 equivalent single-family connections. Utilities Investment Company, Inc. is in the process of applying for a major amendment TCEQ Wastewater Discharge Permit No. WQ0015432001 for 650,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or districts or sewer CCN holders within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant, a district or sewer CCN holder, located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

We will appreciate receiving a response from you indicating if 650,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at <a href="mailto:syoung@waterengineers.com">syoung@waterengineers.com</a> or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely, WATERENGINEERS, INC.

#### Shelley Young

Shelley Young, P.E.

	REPLY	
Date of Reply:	Signature;	
Name of Permittee:	Printed Name:	
Capacity Available (Yes / No)?	Title:	
Terms (if available)	Address:	
	m 1 1	
	Email:	



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

October 17, 2024

Cert. Mail Receipt 7022 2410 0002 3501 2937

Harris County FWSD No. 58 c/o Strawn & Richardson PC 1155 Dairy Ashford Road, Suite 875 Houston, TX 77079

Re:

TPDES Permit No. WQ0010668001

Dear Permittee:

We are writing to you on behalf of Utilities Investment Company, Inc. regarding a proposed wastewater treatment plant expansion project to serve the Sundance Cove residential development located on the north side of Foley Road, approximately 2.75 west of FM 2100 in Harris County as shown on the attached map. The proposed wastewater system will serve approximately 2400 equivalent single-family connections. Utilities Investment Company, Inc. is in the process of applying for a major amendment TCEQ Wastewater Discharge Permit No. WQ0015432001 for 650,000 gpd.

We are required to contact all existing TCEQ Wastewater Discharge Permittees and/or districts or sewer CCN holders within a 3-mile radius of the project to inquire if an existing permit holder is willing to provide the wastewater treatment capacity needed. According to TCEQ records, you are a permittee having an existing wastewater treatment plant, a district or sewer CCN holder, located within three miles of the project and have a TCEQ Waste Discharge Permit. If we find a wastewater treatment plant permit holder within three miles that has the required capacity available or will expand their facility to make it available, we will conduct a feasibility study to determine if it is cost effective to obtain service from them.

We will appreciate receiving a response from you indicating if 650,000 gpd of wastewater treatment capacity in your facility is available, and if so, under what terms. A handwritten reply on a copy of this letter will be adequate. You may email your response to me at <a href="mailto:syoung@waterengineers.com">syoung@waterengineers.com</a> or fax to (281) 373-1113. Please feel free to call me at 281-373-0500 if you have any questions. Thank you for your assistance.

Sincerely, WATERENGINEERS, INC.

#### Shelley Young

Shelley Young, P.E.

REPLY				
Date of Reply:	Signature:			
Name of Permittee:				
Capacity Available (Yes / No)?				
Terms (if available)				
	Telephone:			



#### **Candice Calhoun**

**From:** Shelley Young <syoung@waterengineers.com>

Sent: Monday, November 18, 2024 4:44 PM

**To:** Candice Calhoun

**Subject:** RE: Application to Amend Permit No. WQ0015432001 - Notice of Deficiency (NOD) **Attachments:** Proof of Payment.pdf; Labels.docx; Municipal Discharge New Spanish NORI.docx

Follow Up Flag: Follow up Flag Status: Flagged

Hi Candice,

Regarding the NOI sent earlier for Utilities Investment Company, Inc., WQ0015432001, please accept the following:

- 1. The application fee was sent to the Revenue Section of the TCEQ on the same day as the permit application.

  Please see attached Proof of Payment page. Please check with Revenues again to see if they have received it yet.
- 2. ADMIN.01-2 shows a circle with the number 2 in it depicting the point of discharge. See the legend in the bottom right corner of the map.
- 3. The landowner map had to be screen-shotted from Harris County Appraisal District, as that was the only mapping system we could find that showed all of the lots. We are reaching out to the developer's engineer to see if they can provide a dwg file of the plat that might be useful. If I can assist in helping understand the crowded landowner map, please reach out to me.
- 4. Please find attached the labels document in Word format.
- 5. The NORI contains one error it should read "...and the increase of the Final Phase from 390,000 gallons per day..." As it currently reads, it says 39,000 instead of 390,000.
- 6. I have attached the Spanish version of the NORI.

Please let me know if you have any additional questions or comments.

Regards, Shelley

Shelley B. Young, P.E. WaterEngineers, Inc. 17230 Huffmeister Rd. Cypress, TX ~ 77429

tel: 281-373-0500 fax: 281-373-1113 www.waterengineers.com

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

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

Sent: Monday, November 18, 2024 2:52 PM

To: Shelley Young <syoung@waterengineers.com>

Subject: Application to Amend Permit No. WQ0015432001 - Notice of Deficiency (NOD)

Importance: High

Good afternoon, Shelley,

#### **Candice Calhoun**

From: Shelley Young <syoung@waterengineers.com>

Sent: Tuesday, November 19, 2024 10:07 AM

**To:** Candice Calhoun

Subject: RE: Application to Amend Permit No. WQ0015432001 - Notice of Deficiency (NOD)

Attachments: ADMIN.06.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Good morning, Candice,

This one is a little bigger and much more clear.

Regards, Shelley

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

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

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

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

Sent: Monday, November 18, 2024 2:52 PM

To: Shelley Young <syoung@waterengineers.com>

Subject: Application to Amend Permit No. WQ0015432001 - Notice of Deficiency (NOD)

Importance: High

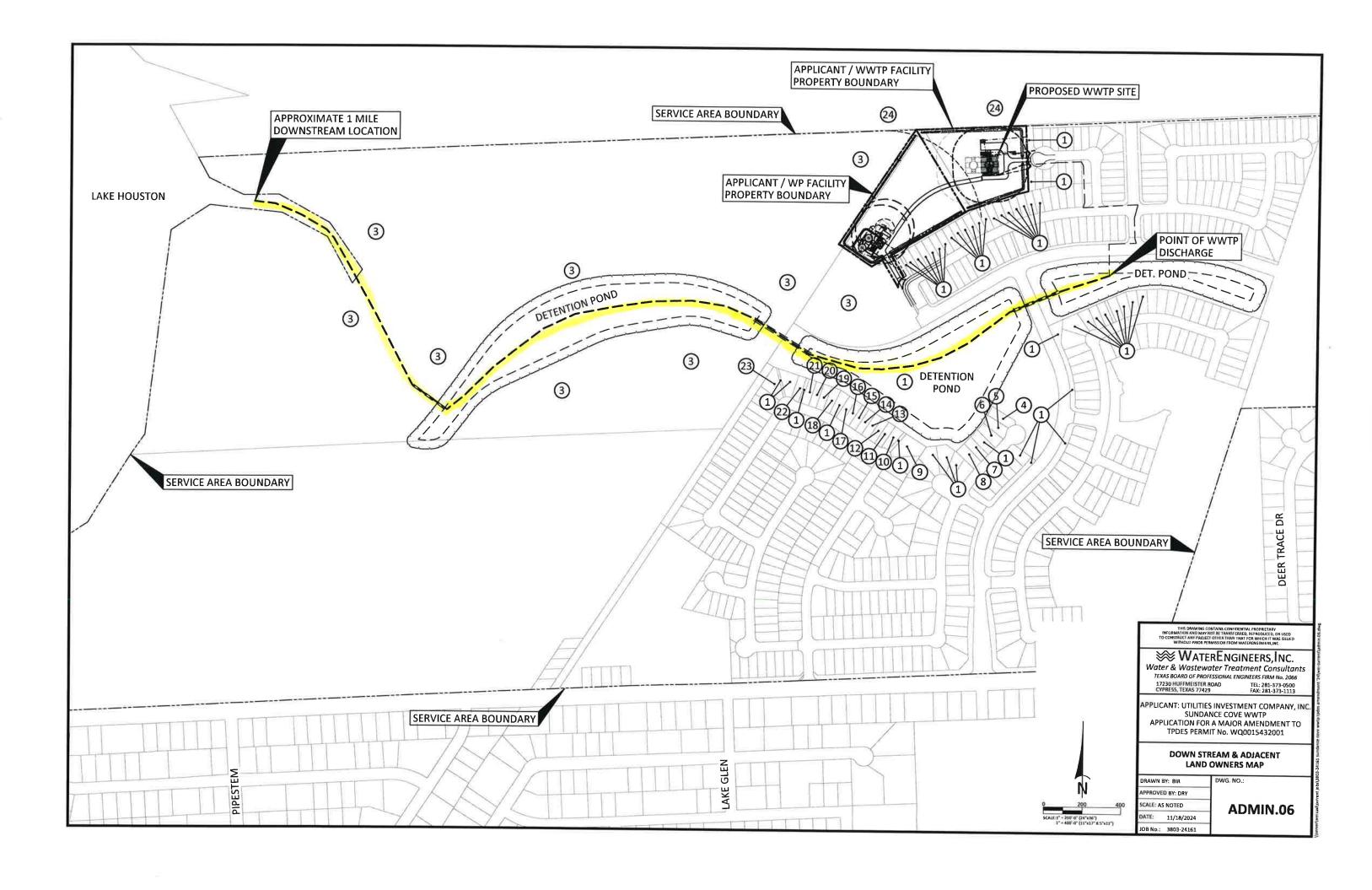
Good afternoon, Shelley,

The attached Notice of Deficiency (NOD) letter dated <u>November 18, 2024</u>, requests additional information needed to declare the application administratively complete. Please send complete response, via email, to my attention, by <u>December 2, 2024</u>.

Also, please note, that the major amendment renewal application cannot be declared administratively complete, until the transfer application has been declared administratively complete. I did reach out to the reviewer of the transfer application, so that once the transfer is completed, and once all items in the attached NOD are resolved, I can declare this application administratively complete.

Please let me know if you have any questions.

Regards,



MERITAGE HOMES OF TEXAS 3250 BRIARPARK DR HOUSTON TX 77042 HARRIS COUNTY P O BOX 1525 HOUSTON TX 77251-1525 CLAY ROAD 628 DEVELOPMENT 5910 FM 2920 SUITE B SPRING TX 77388

THERESA GRAVES 18831 REDFORD SPRINGS CT CROSBY TX 77532 COREY & SHAELYNN PORTIER 18827 REDFORD SPRINGS CT CROSBY TX 77532 JOSE RODRIGUEZ 18823 REDFORD SPRINGS CT CROSBY TX 77532

BRUCE BANG 18815 REDFORD SPRINGS CT CROSBY TX 77532 JOE & DANIELL BARBOZA 18811 REDFORD SPRINGS CT CROSBY TX 77532

DAVID SALAZAR TOLEDO GENESIS 2702 TRINITY COVE CROSBY TX 77532

ERICK & CHRISTINE WALSH 2706 TRINITY COVE CROSBY TX 77532 JOHN & BRENDA BAKER 2710 TRINITY COVE CROSBY TX 77532

HEATHER SCHWALBACH 2714 TRINITY COVE CROSBY TX 77532

KIYONA MACK 2718 TRINITY COVE CROSBY TX 77532

ERICK DEUTSCH & MITCHELL DEUTSCH 2722 TRINITY COVE CROSBY TX 77532 MICHAEL EVANS 2726 TRINITY COVE CROSBY TX 77532

ROGELIO RAMIREZ 2730 TRINITY COVE CROSBY TX 77532 JUAN & NELLY AVILES 2802 TRINITY COVE CROSBY TX 77532 ALEJANDRO MORENO & IRI MARTINEZ 2810 TRINITY COVE CROSBY TX 77532

CLARK & BRITTANY HINKLE 2814 TRINITY COVE CROSBY TX 77532 BRANDON MCCOY 2818 TRINITY COVE CROSBY TX 77532 GUMARO ROBLES JR 2822 TRINITY COVE CROSBY TX 77532

THOMAS TATE 2826 TRINITY COVE CROSBY TX 77532

ALEX MUNIZ 18835 CHISHOLM MEADOW DR CROSBY TX 77532 DEYI TECHNOLOGY INC 5855 SOVEREIGN DR SUITE A HOUSTON TX 77036