

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

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

South Central Water Company (CN602602179) proposes to operate Alvin 350 Wastewater Treatment Plant (RN112197520), an activated sludge processing plant. The facility will be located at 2,200 Ft South of the intersection between County Road 172 and County Road 511, in Alvin, Brazoria County, Texas 77511. This permit is to authorize the discharge of treated domestic wastewater to a volume not to exceed an average flow of 600,000 gallons per day.

Discharges from the facility are expected to contain free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, pH differences, and temperature differences. Domestic wastewater will be treated by an activated sludge processing plant consisting of the following treatment units: bar screens, aeration basins, digester basins, clarifiers, a lift station, and chlorine contact basins.

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

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

Compañía de Agua Central del Sur (CN602602179) propone operar Planta de tratamiento de aguas residuales Alvin 350 (RN112197520), una Planta de procesamiento de lodos activados. La instalación estará ubicada en 2,200 pies al sur de la intersección entre County Road 172 y County Road 511, en Alvin, Condado de Brazoria, Texas 77511. Este permiso es para autorizar la descarga de aguas residuales domésticas tratadas a un volumen que no exceda un flujo promedio de 600,000 galones por día.

Se espera que las descargas de la instalación contengan cloro libre disponible, cloro residual total, sólidos suspendidos totales, aceite y grasa, hierro total, diferencias de pH y diferencias de temperatura. Aguas residuales domésticas. está tratado por Una planta de procesamiento de lodos activados que consta de las siguientes unidades de tratamiento: cribas de barras, cuencas de aireación, cuencas de digestores, clarificadores, una estación de bombeo y cuencas de contacto con cloro.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016791001

APPLICATION. South Central Water Company, P.O. Box 570177, Houston, Texas 77257, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016791001 (EPA I.D. No. TX0147761) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 600,000 gallons per day. The domestic wastewater treatment facility will be located approximately 2,200 feet southeast of the intersection of County Road 172 and County Road 511, near the city of Alvin, in Brazoria County, Texas 77511. The discharge route will be from the plant site to an unnamed ditch; thence to Brazoria County Drainage Ditch No. 5; thence to Chocolate Bayou Above Tidal. TCEQ received this application on April 17, 2025. The permit application will be available for viewing and copying at Alvin - Brazoria County Library, Reference Section, 105 South Gordon Street, Alvin, 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=-95.33088,29.325356&level=18

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

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. Notice of the Application and Preliminary Decision will be published and mailed to those who are on the countywide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.

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

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

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

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

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

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

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

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at https://www14.tceq.texas.gov/epic/eComment/, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from South Central Water Company at the address stated above or by calling Mr. Jerry Ince, P.E., Senior Client Manager/Ward, Getz & Associates, LLC, at 832-344-6604.

Issuance Date: May 12, 2025

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQ0016791001

SOLICITUD. South Central Water Company, P.O. Box 570177, Houston, Texas 77257, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016791001 (EPA I.D. No. TX 0147761) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 600,000 galones por día. La planta estará ubicada aproximadamente 2,200 pies al sureste de la intersección de County Road 172 y County Road 511, cerca de la ciudad de Alvin, en el condado de Brazoria, Texas 77511. La ruta de descarga será desde el sitio de la planta hasta una zanja no nombrada; de ahí al Drenaje del Condado de Brazoria No. 5; y de ahí al Chocolate Bayou por encima de la marea.. La TCEQ recibió esta solicitud el 17 de abril de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Alvin – Biblioteca del Condado de Brazoria, Sección de Referencia, 105 South Gordon Street, Alvin, Texas antes de la fecha en que se publique este aviso en el periódico antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.33088,29.325356&level=18.

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

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

una audiencia administrativa de lo contencioso.

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las

solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

CONTACTOS E INFORMACIÓN 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 South Central Water Company a la dirección indicada arriba o llamando a Sr. Jerry Ince, P.E., Gerente Senior de Clientes/Ward, Getz & Associates, LLC al 832-344-6604.

Fecha de emisión: 12 de mayo de 2025



May 6, 2025

Abesha Michael Applications Review and Processing Team (MC148) Water Quality Division Texas Commission on Environmental Quality

RE: Application for Proposed Permit No.: WQ0016791001 (EPA I.D. No. TX0147761)

Applicant Name: South Central Water Company (CN602602179)

Site Name: Alvin 350 WWTP (RN112197520)

Type of Application: New

Response to Notice of Deficiency (NOD)

VIA EMAIL

Dear Abesha.

We received the Notice of Deficiency (NOD), dated April 16, 2025, to the application for the above referenced permit. Please see the following answer s

<u>Comment No. 1:</u> Thank you for the electronic copy of a proposed permit application. We need the paper copy (hardcopy) of one original and two copies of the application with original signature page. Please mail the hardcopy of the whole application.

<u>Response No. 1:</u> The TCEQ package was mailed to TCEQ on 4/17/2025 with one original and two copies of the application. Please see the attached USPS Tracking Information.

<u>Comment No. 2:</u> Section III, item 24 on page 2 of the Core Data Form (CDF): The name of the county is indicated as Bastrop. However, per the facility description on item 25 and the coordinates on items 27 and 28 of the CDF, and Section 10, item B on page 8 of the application, the facility is located under Brazoria County not Bastrop. Please confirm the name of the county and submit an updated page.

Response No. 2: Please see the revised core data form attached.

<u>Comment No. 3:</u> Section 9, item D on page 7 of the Administrative Report: The owner of the land where the treatment facility is listed as Mr. Doug Bailey. If Mr. Doug Bailey is not the owner of land and South Central Water Company is the owner, please submit a revised page indicating the owner of the land which is the applicant.

<u>Response No. 3:</u> Please see the revised page 7 of the Administrative Report indicating the owner of the land is South Central Water Company.

Comment No. 4: Section 14, Signature page: Thank you for submitting the signature page. However, the signature is not valid because the date signed February 27, 2025, and the date notarized February 28, 2025, are different. The notary is required to witness the signature; therefore, the dates should be the same. Please submit a new original notarized signature page.

Response No. 4: Please see the revised copy of the signature page attached. We are waiting to receive original from the client and then we will mail the original copy.

<u>Comment No. 5</u>: Section 1, Item C, Affected Landowner Information, on page 12 on the administration report. Thank you for the mailing labels. Please email the labels in Microsoft Word Format with the response to this letter. Please use the mailing labels in Avery 5160 label format (3 columns across, 10 columns down). To ensure we can use the media to print labels, they must be evenly spaced, so that each address prints on one label. Please remove if there is any additional information included the list, and no punctuation.

<u>Response No. 5</u>: Please see the attached word document of the affected landowner labels.

<u>Comment No. 6</u>: The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. South Central Water Company, P.O. Box 570177, Houston, Texas 77257, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016791001 (EPA I.D. No. TX0147761) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 600,000 gallons per day. The domestic wastewater treatment facility will be located approximately 2,200 feet southeast of the intersection of County Road 172 and County Road 511, near the city of Alvin, in Brazoria County, Texas 78612. The discharge route will be from the plant site to the Gulf Coast Water Authority (GCWA) Ditch; thence to Brazoria County Brunner Ditch; thence to Chocolate Bayou Above Tidal. (pending RWA confirmation). TCEQ received this application on April 17, 2025. The permit application will be available for viewing and copying at Alvin - Brazoria County Library, Reference Section, 105 South Gordon, Alvin, 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/pendingpermits/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=-95.33088,29.325356&level=18

Further information may also be obtained from South Central Water Company at the address stated above or by calling Mr. Jerry Ince, P.E., Senior Client Manager/Ward, Getz & Associates, LLC, at 832-344-6604.

<u>Response No. 6</u>: The highlighted portions in the above NORI indicate the location of the requested changes. There are no further errors besides what is listed below which will ultimately be updated.

- a. "confiramton" to "confirmation"
- b. "LLP" to "LLC". Please update due to recent changes in the company.

<u>Comment No. 7</u>: The application indicates that the public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word Document.

<u>Response No. 7:</u> Please see the attached Microsoft Word Document of the translated Spanish NORI. All changes made in the English NORI above have been addressed in this version.

If you have any questions or require any further information, please don't hesitate to contact me at <u>aanderson@wga-llc.com</u> or by phone at 346-771-5311.

Sincerely,

Audrey Anderson
Project Engineer

Phone: 346-771-5311

Email: aanderson@wga-llc.com

Ward. Getz & Associates

Enclosure(s)

Cc: Mr. Jerry Ince, Senior Client Manager, Ward, Getz & Associates, LLC, 2500 Tanglewilde, Suite 120, Houston, Texas 77063 (jince@wga-llc.com).

TCEQ Use Only



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked plea	ase describe in space provide	ed.)						
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)								
Renewal (Core Data Form should be submitted v	vith the renewal form)	☐ Other						
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN	3. Regulated Entity Reference Number (if issued)						
CN 602602179	numbers in Central Registry**	RN						
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SECTION II: Customer Information

4. General	. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy)										
	tomer Legal Nam	e (Verifiable with t	Update to Characters and the Characters and the Characters are the Characters are the Characters and the Characters are the Cha	Customer etary of SI	Inform tate or	atio Texa	n as Compti	Change in F			rnership
_								n what is curren			the Texas
Secretary of	of State (SC	S) or Texas Cor	nptroller of P	ublic Ac	counts	(Cl	P <i>A).</i>				
6. Custome	er Legal Na	a me (If an individu	ıal, print last na	me first: e	g: Doe,	Johi	7)	If new Customer	r, enter	orevious Cus	tomer below:
South Centra	al Water Cor	mpany									
7. TX SOS/	CPA Filing	Number	8. TX State	Tax ID (1	1 digits	:>		g. Federal Ta	x ID	10. DUNS	Number (if
0161296200			17606670101					(g digits)			,
							N/A		N/A		
11. Type of Customer: 🛛 Corporation							☐ Indivi	iduat	Partn	ership: 🔲 General 🔲 Limited	
		County 🔲 Federa	l 🗌 Local 🔲 S	itate 🔲 O	ther		☐ Sole	Proprietorship			
12. Number of Employees							13. Independently Owned and Operated?				
	_		<u> </u>	o1 and hig	,			☐ Yes ☐ No			
14. Custom	er Role (Pr	oposed or Actual)	– as it relates t	o the Regi	ulated	Entit	y listed on	this form. Please	check o	ne of the foll	owing
Owner Occupation	nal License	Operator Responsit	_	Owner 8	•		icant	Other:	5		
15.	P.O. Box 5	70177									
Mailing											
Address:	City	Houston		State	TX		ZIP	77257		ZIP+4	
16. Country	/ Mailing Ir	ıformation (if ou	tside USA)			17	. E-Mail /	Address (if applic	able)		
						Do	ug@Souti	hcentralww.com			

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
(713) 783-6611		() -

<u>S</u>

(713) 783-6611									
ECTION III:	Regula	ited Enti	ty Inforn	nation	·2				
21. General Regulated	d Entity Info	ormation (If 'Ne	w Regulated Entity	ı" is selected	d, a new pe	rmit app	lication is also	required.)	
New Regulated Entity	☐ Updat	te to Regulated I	Entity Name	Update to	Regulated	Entity In	formation		
The Regulated Entity I organizational ending				er to meet	TCEQ Cor	e Data	Standards (i	removal d	of
22. Regulated Entity N	Name (Enter	name of the site	where the regulate	ed action is	taking plac	e.)			
Alvin 350 Wastewater Tre	eatment Plar	nt							
23. Street Address									
of the Regulated									
Entity:									
(No PO Boxes)	City	Alvin	State	TX	ZIP	77511	L	ZIP+4	
24. County	Brazoria								
		If no Street A	ddress is provid	led, fields	25-28 are	e requi	red.		
25. Description to	2.200 Ft So	outh of the inters	ection between C	ounty Road	172 and C	ounty R	oad 511 in Braz	zoria Count	y, Texas
Physical Location:	_,			-					
26. Nearest City						State		Nea	rest ZIP Code
Alvin						TX		775	
Latitude/Longitude a	re required	and may be a	dded/updated	to meet T	CEQ Core	Data S	tandards. (G	eocoding	of the Physical
Address may be used	to supply c	oordinates wh	ere none have b	een provid	ded or to g	gain ac	curacy).		
27. Latitude (N) In Dec	imal:	29.325356		28. L	ongitude.	(W) In	Decimal:	95.33088	36
Degrees	Minutes	5	Seconds	Degr	ees		Minutes		Seconds
29°	1	19'	31.28"		95°		19'		51.19"
29. Primary SIC Code	30.	Secondary SI	C Code	31. Prima	ry NAICS	Code	32. Sec	ondary N	AICS Code
(4 digits)	(<u>a</u> d	igits)		(5 or 6 dig			(5 or 6 di	gits)	
rd ardires	,4	· 3· ·							

Wastewater Utilities

P.O. Box 570177

34. Mailing Address:

(4 digits)

4952

State City Houston Doug@Southcentralww.com

35. E-Mail Address: 37. Extension or Code 36. Telephone Number

) (713)783-6611

ZIP+4

ZIP

77257

38. Fax Number (if applicable)

TX

Sludge		Storm Water	☐ Title ∨ Air			Γires		Used Oil
☐ Voluntary	Cleanup		Wastewater	· Agriculture		Water Rigl	nts	Other:
		Pending						
ECTION	IV: Pr	eparer Info	<u>ormation</u>					
ıo. Name:	Audrey Ande	rson		41. Titl	e:	Project E	ngineer	
ı2. Telephon	e Number	43. Ext./Code	44. Fax Numbe	45. E-	Mail	Address		
346)771-5311			() -	AAnde	erson@	wga-llp.c	om	
ECTION	ι V: Διι	thorized Si	ionature					
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entified in field				T	tle:	Preside	 nt	
entified in field	South Ce	entral Water Compar	ny	Job Ti				
	A		ny	Job III			Phone:	(713)783- 6611

	3.	Do the locatio	students a n?	t these	schools a	attend a	ı bilingual	educa	tion prog	gram a	t another
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G.	Pu	blic Inv	olvement l	Plan Fo	orm						
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Se	cti	on 9.	Regula Page 2		Entity a	nd Pe	rmitted	Site	Inform	ation	(Instructions
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C.	Ov	vner of	treatment f	acility:	South Cer	ntral Wa	ter Compai	<u>ny</u>			
	Ov	vnership	of Facility	: □	Public		Private		Both		Federal
D.	Ov	vner of	land where	treatm	nent facili	ty is or	will be:				
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	Tit	le: Click	k to enter te	ext.	Cre	dential	Click to e	enter to	ext.		
	Or	ganizati	ion Name: <u>S</u>	South C	entral Wat	er Com	<u>pany</u>				
	Ma	iling Ac	ddress: <u>P.O.</u>	Box 57	<u>′0177</u>	(City, State,	Zip C	ode: <u>Hous</u>	ston, T	X 77257
	Ph	one No.	: <u>713-783-66</u>	11	E-r	nail Ad	dress: <u>Dou</u>	ıg@Sou	ıthcentralv	ww.con	<u>n</u>
			lowner is no t or deed re						or co-ap	plican	t, attach a lease
		Attach	ment: <u>N/A</u>								

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0016791001

Applicant: South Central Water Company

Certification:

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

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

Signatory name (typed or printed): <u>Doug Baily</u>	
Signatory title: President Signature: Date:	24-25
(Use blue ink)	
Subscribed and Sworn to before me by the said	
on this April day of 24th My commission expires on the 22 day of April	_,20 <u>25.</u> _,20 <u>27</u> .
TRINA FOLEY My Notary ID # 131983781 Expires April 22, 2027	
Notary Public	[SEAL]
HAMNIS County, Texas	

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DICKINSON TX 77539-8384

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8815 COUNTY RD 511	8815 COUNTY RD 511	8815 COUNTY RD 511
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8815 COUNTY RD 511	9008 COUNTY ROAD 172	9008 COUNTY ROAD 172
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9008 COUNTY ROAD 172	9008 COUNTY ROAD 172	7730 COUNTY ROAD 172
ROSHARON TX 77583-7350	ROSHARON TX 77583-7350	ALVIN TX 77511-4085
EL RANCHO RV RESORT LLC	EL RANCHO RV RESORT LLC	EL RANCHO RV RESORT LLC
1463 COUNTY ROAD 149	1463 COUNTY ROAD 149	1463 COUNTY ROAD 149
ALVIN TX 77511	ALVIN TX 77511	ALVIN TX 77511
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2718 CYPRESS WOOD LN MANVEL	2718 CYPRESS WOOD LN MANVEL	8001 COUNTY ROAD 172
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HIGHLAND MANAGEMENT INC 700 MILAM ST HOUSTON TX 77002-2806

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LUCAS JACOB ROY & HALEY BETHANY HOLDER 2250 COUNTY ROAD 206 ALVIN TX 77511-6654

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. WQ00

SOLICITUD. South Central Water Company, P.O. Box 570177, Houston, Texas 77257, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016791001 (EPA I.D. No. TX 0147761) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de *600,000* galones por día. La planta estará ubicada aproximadamente 2,200 pies al sureste de la intersección de County Road 172 y County Road 511, cerca de la ciudad de Alvin, en el condado de Brazoria, Texas 78612. La ruta de descarga estará del sitio de la planta a la zanja de la Autoridad del Agua de la Costa del Golfo (GCWA); de allí a la zanja Brunner del condado de Brazoria; de allí a Chocolate Bayou Above Tidal. La TCEQ recibió esta solicitud el 17 de abril de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Alvin – Biblioteca del Condado de Brazoria, Sección de Referencia, 105 South Gordon, Alvin, Texas antes de la fecha en que se publique este aviso en el periódico antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=95.33088,29.325356&level=18.

[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange.] El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

AVISO ADICIONAL. El Director Ejecutivo de la TCEO ha determinado que la solicitud es

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

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

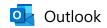
LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que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

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

CONTACTOS E INFORMACIÓN 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 South Central Water Company a la dirección indicada arriba o llamando a Sr. Jerry Ince, P.E., Gerente Senior de Clientes/Ward, Getz & Associates, LLC al 832-344-6604.

Fecha de emisión: [Date notice issued]



A shipment from Maren Evans is on its way

From no-reply@pb.com <no-reply@pb.com>

Date Thu 4/17/2025 12:11 PM

To Cecilia Chen <cchen@wga-llp.com>

View tracking details

[%%view_email_url%%]view as webpage



Your package is on its way



Your package from WGA is on its way.

To track your package, view the shipment details below. It may take 12-24 hours before tracking information is available.

Shipment details

9402809105156130655617
April 19, 2025
USPS
AAnderson - 40003-018
Priority Mail®
TCEQ WATER QUALITY DIVISION APPLICATION REVIEW AND PROCESSING MC148 PO BOX 13087 AUSTIN, TX 78711-3087 US
Yes

Learn more about sending solutions available from Pitney Bowes



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April 14, 2025

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

Re: South Central Water Company (CN602602179)

Alvin 350 Wastewater Treatment Plant (RN-PENDING)

TPDES Permit Application NEW PERMIT NO. WQ00-PENDING

Water Quality Division:

Ward, Getz, and Associates, LLP is submitting a complete Texas Pollutant Discharge Elimination System (TPDES) Permit Application for the proposed Alvin 350 Wastewater Treatment Plant on behalf of South Central Water Company. Please find attached one (1) original and two (2) copies of the TPDES permit application. An electronic copy has been uploaded to TCEQ's FTP Server and sent to WQDeCopy@tceq.texas.gov.

The permit application fee was paid via check and mailed to the TCEQ Financial Administration Division. Please see the attached copy of the [electronic voucher/check].

If you have any questions, or require any additional information, please contact Audrey Anderson at 346-771-5311, or by email at aanderson@wga-llp.com.

Sincerely,

Audrey Anderson Project Engineer

Ward, Getz & Associates, LLP



April 14, 2025

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

Re: South Central Water Company (CN602602179)

Alvin 350 Wastewater Treatment Plant (RN-PENDING)

TPDES Permit Application NEW PERMIT NO. WQ00-PENDING

Water Quality Division:

Ward, Getz, and Associates, LLP is submitting a complete Texas Pollutant Discharge Elimination System (TPDES) Permit Application for the new Alvin 350 Wastewater Treatment Plant on behalf of South Central Water Company. Please find enclosed one (1) check in the amount of **\$1650.00** for the TPDES permit application fee.

If you have any questions, or require any additional information, please contact Audrey Anderson at 346-771-5311, or by email at aanderson@wga-llp.com.

Sincerely,

Audrey Anderson Project Engineer

Ward, Getz & Associates, LLP

TCEQ APPLICATION FOR TPDES PERMIT NEW

FOR

ALVIN 350 WWTP

IN

Brazoria County, Texas

ON BEHALF OF

SOUTH CENTRAL WATER COMPANY

BY



WARD, GETZ & ASSOCIATES, PLLC TEXAS REGISTERED ENGINEERING FIRM F-9756 2500 Tanglewilde, Suite 120 Houston, TX 77063 713.789.1900

APRIL 2025



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: South Central Water Company

PERMIT NUMBER (If new, leave blank): WQ00Click to enter text.

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

\boxtimes			
	Original USGS Map		
\boxtimes	Affected Landowners Map		
\boxtimes	Landowner Disk or Labels		
\boxtimes	Buffer Zone Map		
\boxtimes	Flow Diagram		
\boxtimes	Site Drawing		
\boxtimes	Original Photographs		
\boxtimes	Design Calculations		
	Solids Management Plan		
	Water Balance		
	 Region		
		□ Landowner Disk or Labels □ Buffer Zone Map □ Flow Diagram □ Original Photographs □ Design Calculations □ Solids Management Plan □ Water Balance □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	□ Landowner Disk or Labels □ Buffer Zone Map □ Flow Diagram □ Site Drawing □ Original Photographs □ Design Calculations □ Solids Management Plan □ Water Balance County Region

THE THE PARTY OF T

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 □	\$315.00 □
≥0.05 but <0.10 MGD	\$550.00 □	\$515.00 □
≥0.10 but <0.25 MGD	\$850.00 □	\$815.00 □
≥0.25 but <0.50 MGD	\$1,250.00 □	\$1,215.00
≥0.50 but <1.0 MGD	\$1,650.00 ⊠	\$1,615.00
≥1.0 MGD	\$2,050.00	\$2,015.00 □

Minor Amendment (for any flow) \$150.00 □

Payment Information

Mailed Check/Money Order Number: <u>5428</u>

Check/Money Order Amount: \$1,650.00

Name Printed on Check: <u>South Central Water Company</u>

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes \square

Section 2. Type of Application (Instructions Page 26)

a.	Check the box next to the appropriate authorization type.	
		Publicly Owned Domestic Wastewater
	\boxtimes	Privately-Owned Domestic Wastewater
		Conventional Water Treatment

b. Check the box next to the appropriate facility status.

☐ Active ☒ Inactive

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.	d. Check the box next to the appropriate application type			
	\boxtimes	New		
		Major Amendment <u>with</u> Renewal		Minor Amendment <u>with</u> Renewal
		Major Amendment <u>without</u> Renewal		Minor Amendment without Renewal
		Renewal without changes		Minor Modification of permit
e.	For	amendments or modifications, describe the p	ropo	osed changes: <u>N/A</u>
f.	F. For existing permits:			
	Per	mit Number: WQ00 <u>N/A</u>		
	EPA	A I.D. (TPDES only): TX <u>N/A</u>		
	Exp	oiration Date: <u>N/A</u>		
Se	ectio	on 3. Facility Owner (Applicant) a (Instructions Page 26)	nd	Co-Applicant Information
		(mstructions rage 20)		
A.	The	e owner of the facility must apply for the per	rmit	•
	Wh	at is the Legal Name of the entity (applicant) a	pply	ring for this permit?
	Sou	th Central Water Company		
		e legal name must be spelled exactly as filed w legal documents forming the entity.)	ith t	he Texas Secretary of State, County, or in
		he applicant is currently a customer with the T nay search for your CN on the TCEQ website		
		CN: <u>602602179</u>		
	Wh	at is the name and title of the person signing t	the a	pplication? The person must be an

executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix: Click to enter text. Last Name, First Name: <u>Bailey</u>, <u>Doug</u>

Title: <u>President</u> Credential: <u>N/A</u>

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

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

N/A

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

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

CN: <u>N/A</u>

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: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

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

C. Core Data Form

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

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: Mr. Last Name, First Name: Ince, Jerry

Title: <u>Senior Client Manager</u> Credential: <u>P.E.</u>
Organization Name: Ward, Getz & Associates, LLP

Mailing Address: <u>2500 Tanglewilde St, Suite 120</u> City, State, Zip Code: <u>Houston, TX 77063</u>

Phone No.: 832-344-6604 E-mail Address: jince@wga-llp.com

Check one or both: \square Administrative Contact \boxtimes Technical Contact

B. Prefix: Ms. Last Name, First Name: Anderson, Audrey

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

Organization Name: Ward, Getz & Associates, LLP

Mailing Address: <u>2500 Tanglewilde St., Suite 120</u> City, State, Zip Code: <u>Houston, TX 77063</u>

Phone No.: <u>346-771-5311</u> E-mail Address: <u>aanderson@wga-llp.com</u>

Check one or both: oxdot Administrative Contact oxdot 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: Ince, Jerry

Title: <u>Senior Client Manager</u> Credential: <u>P.E.</u>
Organization Name: <u>Ward, Getz & Associates, LLP</u>

Mailing Address: <u>2500 Tanglewilde St., Suite 120</u> City, State, Zip Code: <u>Houston, TX 77063</u>

Phone No.: 346-771-5311 E-mail Address: aanderson@wga-llp.com

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.

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Bailey, Doug

Title: President Credential: Click to enter text.

Organization Name: South Central Water Company

Mailing Address: P.O. Box 570177 City, State, Zip Code: Houston, Texas 77257

Phone No.: <u>713-783-6611</u> E-mail Address: <u>Doug@southcentralww.com</u>

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: Bailey, Doug

Title: President Credential: Click to enter text.

Organization Name: South Central Water Company

Mailing Address: P.O. Box 570177 City, State, Zip Code: Houston, Texas 77257

Phone No.: <u>713-783-6611</u> E-mail Address: <u>Doug@southcentralww.com</u>

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Anderson, Audrey

Title: Project Engineer Credential: Click to enter text.

Organization Name: Ward, Getz & Associates, LLP

Mailing Address: <u>2500 Tanglewilde St., Suite 120</u> City, State, Zip Code: <u>Houston, TX 77063</u>

Phone No.: 346-771-5311 E-mail Address: aanderson@wga-llp.com

B.	Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package					
	Indicate by a check mark the preferred method for receiving the first notice and instructions					
	□ Fax					
	□ Regular Mail					
C.						
	Prefix: Mr. Last Name, First Name: Ince, Jerry					
	Title: Senior Client Manager Credential: P.E.					
	Organization Name: Ward, Getz & Associates, LLP					
	Mailing Address: <u>2500 Tanglewilde St., Suite 120</u> City, State, Zip Code: <u>Houston, TX 77063</u>					
	Phone No.: 832-344-6604 E-mail Address: jince@wga-llp.com					
D.	Public Viewing Information					
	If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.					
	Public building name: <u>Alvin – Brazoria County Library</u>					
	Location within the building: <u>Reference Section</u>					
Physical Address of Building: 105 South Gordon						
	City: <u>Alvin</u> County: <u>Brazoria</u>					
	Contact (Last Name, First Name): <u>Carolynn Waites</u>					
	Phone No.: <u>281-388-4300</u> Ext.: Click to enter text.					
E.	Bilingual Notice Requirements					
	This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.					
	This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.					
	Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.					
	1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?					
	⊠ Yes □ No					
	If no , publication of an alternative language notice is not required; skip to Section 9 below.					

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

No

 \boxtimes

Yes

	3.	Do the locatio		these	schools attend a bilingual education program at another
			Yes		No
	4.				uired to provide a bilingual education program but the school has rement under 19 TAC §89.1205(g)?
			Yes	\boxtimes	No
	5.		,	_	uestion 1, 2, 3, or 4 , public notices in an alternative language are e is required by the bilingual program? <u>Spanish</u>
F.	Su	mmary	of Applicat	ion in	Plain Language Template
					of Application in Plain Language Template (TCEQ Form 20972), guage summary or PLS, and include as an attachment.
	At	tachme	nt: <u>Appendi</u>	x B	
G.	Pu	blic Inv	olvement P	lan Fo	orm
		-			ment Plan Form (TCEQ Form 20960) for each application for a dment to a permit and include as an attachment.
	At	tachme	nt: <u>Appendi</u>	x C	
Se	cti	on 9.	Regulate Page 29		Entity and Permitted Site Information (Instructions
Α.		the site s site. R	-	regula	ated by TCEQ, provide the Regulated Entity Number (RN) issued to
			TCEQ's Cer currently re		degistry at http://www15.tceq.texas.gov/crpub/ to determine if ed by TCEQ.
B.	Na	me of p	roject or sit	e (the	name known by the community where located):
	Alv	<u>in 350 V</u>	Vastewater T	<u>reatme</u>	ent Plant
C.	Ov	vner of	treatment fa	cility:	South Central Water Company
	Ov	vnership	of Facility:		Public \square Private \square Both \square Federal
D.	Ov	vner of l	land where t	reatm	ent facility is or will be:
	Pre	efix: <u>MR</u>	<u></u>		Last Name, First Name: <u>Bailey, Doug</u>
	Tit	le: <u>Presi</u>	<u>dent</u>		Credential: Click to enter text.
	Or	ganizati	ion Name: <u>S</u> e	outh Co	entral Water Company
	Ma	iling Ac	ldress: <u>P.O. </u>	Box 57	City, State, Zip Code: <u>Houston, TX 77257</u>
	Ph	one No.	: <u>713-783-66</u>	<u>l1</u>	E-mail Address: <u>Doug@Southcentralww.com</u>
					same person as the facility owner or co-applicant, attach a lease l easement. See instructions.
		Attach	ment: <u>N/A</u>		

	Prefix: <u>N/A</u>	Last Name, First Name: <u>N/A</u>
	Title: <u>N/A</u>	Credential: <u>N/A</u>
	Organization Name: <u>N/A</u>	
	Mailing Address: <u>N/A</u>	City, State, Zip Code: <u>N/A</u>
	Phone No.: <u>N/A</u>	E-mail Address: <u>N/A</u>
	agreement or deed recorded ea	ne person as the facility owner or co-applicant, attach a lease asement. See instructions.
	Attachment: <u>N/A</u>	
F.	Owner sewage sludge disposal property owned or controlled by	site (if authorization is requested for sludge disposal on by the applicant)::
	Prefix: <u>N/A</u>	Last Name, First Name: <u>N/A</u>
	Title: <u>N/A</u>	Credential: <u>N/A</u>
	Organization Name: <u>N/A</u>	
	Mailing Address: <u>N/A</u>	City, State, Zip Code: <u>N/A</u>
	Phone No.: <u>N/A</u>	E-mail Address: <u>N/A</u>
	If the landowner is not the sam agreement or deed recorded ea	ne person as the facility owner or co-applicant, attach a lease asement. See instructions.
	Attachment: N/A	
Se	ection 10. TPDES Discha	rge Information (Instructions Page 31)
A.	Is the wastewater treatment fac	cility location in the existing permit accurate?
	□ Yes □ No	
		tion, please give an accurate description:
	2,200 Ft South of the intersection Texas in Brazoria County	n between County Road 172 and County Road 511 near Alvin,
B.	Are the point(s) of discharge a	nd the discharge route(s) in the existing permit correct?
	□ Yes □ No	
	point of discharge and the disc TAC Chapter 307:	permit application , provide an accurate description of the charge route to the nearest classified segment as defined in 30
		Coast Water Authority (GCWA) Ditch Hallowin Lateral 1, thence to 105-00-00), thence to Classified Segment Chocolate Bayou Above an Jacinto-Brazos Coastal Basin
	City nearest the outfall(s): <u>Alvir</u>	
	County in which the outfalls(s)	is/are iocatea: <u>Brazoria</u>

E. Owner of effluent disposal site:

	a flood control district drainage ditch?
	□ Yes ⊠ No
	If yes , indicate by a check mark if:
	\square Authorization granted \square Authorization pending
	For new and amendment applications, provide copies of letters that show proof of contact and the approval letter upon receipt.
	Attachment: N/A
D.	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: N/A
Se	ection 11. TLAP Disposal Information (Instructions Page 32)
Α.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	□ Yes □ No
	If no, or a new or amendment permit application , provide an accurate description of the disposal site location:
	N/A
В.	City nearest the disposal site: N/A
	County in which the disposal site is located: N/A
	For TLAPs , describe the routing of effluent from the treatment facility to the disposal site:
	N/A
Е.	For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: N/A
Se	ection 12. Miscellaneous Information (Instructions Page 32)
A.	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.
	N/A

C. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or

C.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
	□ Yes ⊠ No
	If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: $\underline{N/A}$
D.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If yes , provide the following information:
	Account number: <u>N/A</u>
	Amount past due: <u>N/A</u>
E.	Do you owe any penalties to the TCEQ?
	□ Yes ⊠ No
	If yes , please provide the following information:
	Enforcement order number: <u>N/A</u>
	Amount past due: <u>N/A</u>
So	ection 13. Attachments (Instructions Page 33)
	dicate which attachments are included with the Administrative Report. Check all that apply:
	Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
\boxtimes	Original full-size USGS Topographic Map with the following information:
	 Applicant's property boundary Treatment facility boundary Labeled point of discharge for each discharge point (TPDES only) Highlighted discharge route for each discharge point (TPDES only) Onsite sewage sludge disposal site (if applicable) Effluent disposal site boundaries (TLAP only) New and future construction (if applicable) 1 mile radius information 3 miles downstream information (TPDES only) All ponds.
	Attachment 1 for Individuals as co-applicants
	Other Attachments. Please specify: Click to enter text.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: Click to enter text.

Applicant: South Central Water Company

Certification:

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

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

Signatory name (typed or p	rinted): <u>Doug Bailey</u>	
Signatory title: President Signature: (Use blue ink)	2	Date: 2-27-25
Subscribed and Sworn to be on this February My commission expires on	day of 0	38 ,20 35
TRINA FOLEY My Notary ID # 131983781 Expires April 22, 2027	1 Helitty	
Notary Public		[SEAL]
Halki S County, Texas		
Country, I Chas		

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

Α.		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
	\boxtimes	The facility site boundaries within the applicant's property boundaries
	\boxtimes	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).)
	\boxtimes	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
	\boxtimes	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.	⊠ addr	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.	⊠ labe	Indicate by a check mark that the landowners list has also been provided as mailing ls in electronic format (Avery 5160).
D.	Prov <u>Distr</u>	ride the source of the landowners' names and mailing addresses: <u>Brazoria County Appraisal</u> rict
E.		equired by $Texas\ Water\ Code\ \S\ 5.115$, is any permanent school fund land affected by application?
		□ Yes ⊠ No

	-	\mathbf{res} , provide the location and foreseeable impacts and effects this application has on the $\mathbf{d}(\mathbf{s})$:
	N,	$^{\prime}\mathrm{A}$
Ca		on Ontainal Disate moules (Instancetions Demo 20)
		on 2. Original Photographs (Instructions Page 38)
		e original ground level photographs. Indicate with checkmarks that the following nation is provided.
	\boxtimes	At least one original photograph of the new or expanded treatment unit location
		At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
	\boxtimes	At least one photograph of the existing/proposed effluent disposal site
	\boxtimes	A plot plan or map showing the location and direction of each photograph
Co	ot:	on 2 Duffey Zone Man (Instructions Dags 20)
		on 3. Buffer Zone Map (Instructions Page 38)
Α.	inf	First zone map. Provide a buffer zone map on 8.5×11 -inch paper with all of the following ormation. The applicant's property line and the buffer zone line may be distinguished by 1.5×10^{-5} mg dashes or symbols and appropriate labels.
		 The applicant's property boundary; The required buffer zone; and Each treatment unit; and The distance from each treatment unit to the property boundaries.
В.		fer zone compliance method. Indicate how the buffer zone requirements will be met. eck all that apply.
		○ Ownership
		□ Restrictive easement
		□ Nuisance odor control
		□ Variance
C.		suitable site characteristics. Does the facility comply with the requirements regarding suitable site characteristic found in 30 TAC § 309.13(a) through (d)?
		⊠ 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: **Appendix F**

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Austin, Texas 78711-3088

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

Fee Code: WQP Waste Permit No: Pending

1. Check or Money Order Number: 5428

2. Check or Money Order Amount: \$1,650.00

3. Date of Check or Money Order: 3/12/2025

4. Name on Check or Money Order: South Central Water Company

5. APPLICATION INFORMATION

Name of Project or Site: Alvin 350 Wastewater Treatment Plant

Physical Address of Project or Site: <u>2,200 Feet south of the intersection between County Road 172</u> and County Road <u>511</u> in the City of Alvin, Brazoria County, Texas

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

Staple Check or Money Order in This Space

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

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

Full legal name (Last Name, First Name, Middle Initial): N/A

Driver's License or State Identification Number: N/A

Date of Birth: <u>N/A</u>
Mailing Address: <u>N/A</u>

City, State, and Zip Code: N/A

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

E-mail Address: N/A

CN: N/A

For Commission Use Only:

Customer Number:

Regulated Entity Number:

Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

TP		
Core Data Form (TCEQ Form No. 10400) (Required for all application types. Must be completed in its entirety and signed Note: Form may be signed by applicant representative.)	⊠ d.	Yes
Correct and Current Industrial Wastewater Permit Application Forms (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)		Yes
Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for mailing o	⊠ addres	Yes s.)
7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)		Yes
Current/Non-Expired, Executed Lease Agreement or Easement		Yes
Landowners Map (See instructions for landowner requirements)		Yes
 Things to Know: All the items shown on the map must be labeled. The applicant's complete property boundaries must be delineated very boundaries of contiguous property owned by the applicant. The applicant cannot be its own adjacent landowner. You must identify landowners immediately adjacent to their property, regardless of he from the actual facility. If the applicant's property is adjacent to a road, creek, or stream, the on the opposite side must be identified. Although the properties are applicant's property boundary, they are considered potentially affect if the adjacent road is a divided highway as identified on the USGS map, the applicant does not have to identify the landowners on the the highway. 	ntify thow far ne land e not a cted la topogr	ne they are lowners adjacent to ndowners. caphic
Landowners Labels and Cross Reference List (See instructions for landowner requirements)		Yes
Electronic Application Submittal (See application submittal requirements on page 23 of the instructions.)		Yes
Original signature per 30 TAC § 305.44 - Blue Ink Preferred (If signature page is not signed by an elected official or principle executive official or principle executive official or principle executive official or principle executive of the signature authority/delegation letter must be attached)	⊠ cer,	Yes

Summary of Application (in Plain Language)

Yes

THE TONMENTAL OUNT

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 42)

A. Existing/Interim I Phase

Design Flow (MGD): 0.10

2-Hr Peak Flow (MGD): <u>0.40</u>

Estimated construction start date: September 2026

Estimated waste disposal start date: May 2027

B. Interim II Phase

Design Flow (MGD): 0.35

2-Hr Peak Flow (MGD): <u>1.40</u>

Estimated construction start date: January 2029

Estimated waste disposal start date: September 2029

C. Final Phase

Design Flow (MGD): 0.60

2-Hr Peak Flow (MGD): 2.40

Estimated construction start date: June 2032

Estimated waste disposal start date: March 2033

D. Current Operating Phase

Provide the startup date of the facility: N/A

Section 2. Treatment Process (Instructions Page 42)

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

than one phase exists or is proposed, a description of each phase must be provided.

Appendix I

finish with the point of discharge. Include all sludge processing and drying units. **If more**

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)
Appendix J		

C. Process Flow Diagram

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

Attachment: **Appendix K**

Section 3. Site Information and Drawing (Instructions Page 43)

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

• Latitude: 29.324267

• Longitude: <u>-95.330122</u>

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

• Latitude: <u>N/A</u>

Longitude: 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: **Appendix L**

Provide the name and a desc	cription of the area	a served by the treatmen	t facility.
The proposed wastewater to consisting of 400 single far residences, Phase III will consider the consisting of 400 single far residences.	nily homes, Phase	II will serve 800 total sin	
Collection System Informati each uniquely owned collection systems. examples .	tion system, existi Please see the ins	ing and new, served by th	nis facility, including
Collection System Information Collection System Name	Owner Name	Owner Type	Population Served
N/A	owner runne	Choose an item.	T optimized served
,		Choose an item.	
		Choose an item.	
		Choose an item.	
	1		
Is the application for a renew Yes No If yes, does the existing peryears of being authorized b ☐ Yes ☐ No If yes, provide a detailed dis Failure to provide sufficient recommending denial of the N/A	mit contain a phas y the TCEQ? scussion regarding at justification ma	te that has not been cons to the continued need for the result in the Executive	tructed within five the unbuilt phase.
Section 5. Closure P Have any treatment units be out of service in the next five			ll any units be taken

If y	res, was a closure plan submitted to the TCEQ?
	□ Yes □ No
If y	res, provide a brief description of the closure and the date of plan approval.
Se	ction 6. Permit Specific Requirements (Instructions Page 44)
	applicants with an existing permit, check the Other Requirements or Special ovisions of the permit.
A.	Summary transmittal
	Have plans and specifications been approved for the existing facilities and each proposed phase?
	□ Yes ⊠ No
	If yes, provide the date(s) of approval for each phase: <u>Click to enter text.</u>
	Provide information, including dates, on any actions taken to meet a <i>requirement or provision</i> pertaining to the submission of a summary transmittal letter. Provide a copy of an approval letter from the TCEQ, if applicable .
	N/A
B.	Buffer zones
	Have the buffer zone requirements been met?
	⊠ Yes □ No
	Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.
	N/A

C.	Ot	her actions required by the current permit
	Do sul	es the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require omission of any other information or other required actions? Examples include tification of Completion, progress reports, soil monitoring data, etc.
		□ Yes ⊠ No
		ves, provide information below on the status of any actions taken to meet the aditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
	N	/A
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.
		N/A
	3.	Grit disposal
		Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

disposal requirements and restrictions.

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

□ Yes □ No

		Describe the method of grit disposal.
		N/A
	4.	Grease and decanted liquid disposal
		Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.
		Describe how the decant and grease are treated and disposed of after grit separation.
		N/A
E.	Sto	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
		If yes , please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:
		TXR05 Click to enter text. or TXRNE Click to enter text.
		If no, do you intend to seek coverage under TXR050000?
		□ Yes □ No
	<i>3.</i>	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:					
	Click to enter text.					
4.	Existing coverage in individual permit					
	Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?					
	□ Yes □ No					
	If yes , provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.					
	Click to enter text.					
5.	Zero stormwater discharge					
	Do you intend to have no discharge of stormwater via use of evaporation or other means?					
	□ Yes □ No					
	If yes, explain below then skip to Subsection F. Other Wastes Received.					
	Click to enter text.					
	Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.					
6.	Request for coverage in individual permit					
	Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?					
	□ Yes □ No					
	If yes , provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you					

		intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.
		Click to enter text.
		Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling 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	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
		yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. ck to enter text.
G.	Ot	her 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 instructions.
		In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		Click to enter text.
		Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
	2.	Acceptance of septic waste
		Is the facility accepting or will it accept septic waste?
		□ Yes ⊠ No
		If yes, does the facility have a Type V processing unit?
		□ Yes □ No
		If yes, does the unit have a Municipal Solid Waste permit?
		□ Yes □ No

	millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action. N/A
	Note: Permits that accept sludge from other wastewater treatment plants may be
3.	required to have influent flow and organic loading monitoring. Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or
	as discharged by IUs listed in Worksheet 6)
	Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?
	□ Yes ⊠ No
	If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.
	N/A
Secti	on 7. Pollutant Analysis of Treated Effluent (Instructions Page
	49)

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

Is the facility in operation?

 \boxtimes 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.

Table1.0(2) - Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

^{*}TPDES permits only

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: TBD

Facility Operator's License Classification and Level: TBD

Facility Operator's License Number: <u>TBD</u>

[†]TLAP permits only

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 50)

A. WWTP's Sewage Sludge or Biosolids Management Facility Type Check all that apply. See instructions for guidance Design flow>= 1 MGD Serves \geq 10,000 people Class I Sludge Management Facility (per 40 CFR § 503.9) Biosolids generator Biosolids end user - land application (onsite) Biosolids end user - surface disposal (onsite) Biosolids end user - incinerator (onsite) B. WWTP's Sewage Sludge or Biosolids Treatment Process Check all that apply. See instructions for guidance. \boxtimes Aerobic Digestion Air Drying (or sludge drying beds) Lower Temperature Composting Lime Stabilization **Higher Temperature Composting Heat Drying** Thermophilic Aerobic Digestion **Beta Ray Irradiation** Gamma Ray Irradiation Pasteurization Preliminary Operation (e.g. grinding, de-gritting, blending) Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter) Sludge Lagoon Temporary Storage (< 2 years) Long Term Storage (>= 2 years) Methane or Biogas Recovery Other Treatment Process: Click to enter text.

C. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the

permit will authorize all sewage sludge or 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	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.	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): <u>Transport to another WWTP</u>

D. Disposal site

Disposal site name: Wastewater Residuals Management - Austin Wastewater Processing Facility

TCEQ permit or registration number: MSW 2384

County where disposal site is located: Travis

E. Transportation method

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

Name of the hauler: Wastewater Residuals Management

Hauler registration number: 2370a

Sludge is transported as a:

Liquid \square semi-liquid \boxtimes semi-solid \square solid \square

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 52)

A. Beneficial use authorization

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

□ Yes ⊠ No

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

□ Yes □ No

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

□ Yes □ No

В.	Siuage	e processing authorization						
		s the existing permit include authorization for any of the following sludge processing, age or disposal options?						
	Slu	dge Composting		Yes		No		
	Maı	rketing and Distribution of Biosolids		Yes	\boxtimes	No		
	Slu	dge Surface Disposal or Sludge Monofill		Yes	\boxtimes	No		
	Ten	nporary storage in sludge lagoons		Yes	\boxtimes	No		
	author	to any of the above sludge options and the rization, is the completed Domestic Waster ical Report (TCEQ Form No. 10056) attack	vate	r Permi	t Appl	ication: Sewage Sludge		
		Yes □ No						
Se	ction	11. Sewage Sludge Lagoons (Ins	tru	ctions	Page	2 53)		
		facility include sewage sludge lagoons?						
	□ Ye							
If y	es, con	nplete the remainder of this section. If no,	proc	eed to S	Section	12.		
Α.	Locatio	on information						
		llowing maps are required to be submitted e the Attachment Number.	as p	art of t	he app	lication. For each map,		
	•	Original General Highway (County) Map:						
		Attachment: Click to enter text.						
	•	USDA Natural Resources Conservation Ser	vice	Soil Ma _l	p:			
		Attachment: Click to enter text.						
	•	Federal Emergency Management Map:						
		Attachment: Click to enter text.						
	• Site map:							
	Attachment: Click to enter text.							
	Discus apply.	s in a description if any of the following ex	ist v	vithin tl	ne lago	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

Attachment: Click to enter text.

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

Click to enter text.			

B. Temporary storage information

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

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

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

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: <u>Click to enter text.</u>

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: <u>Click to enter text.</u>

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
_	1 00	_	110

	If yes	, describe the liner below. Please note that a liner is required.			
Click to enter text.					
D.	Site development plan				
	Provide a detailed description of the methods used to deposit sludge in the lagoon(s):				
	Click	to enter text.			
	Attac	n the following documents to the application.			
	•	Plan view and cross-section of the sludge lagoon(s)			
		Attachment: Click to enter text.			
	•	Copy of the closure plan			
		Attachment: Click to enter text.			
	•	Copy of deed recordation for the site			
		Attachment: Click to enter text.			
	•	Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons			
		Attachment: Click to enter text.			
	•	Description of the method of controlling infiltration of groundwater and surface water from entering the site			
		Attachment: Click to enter text.			
	•	Procedures to prevent the occurrence of nuisance conditions			
		Attachment: Click to enter text.			
E.	Grou	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 e lagoon(s)?			
		Yes □ No			
	types	undwater monitoring data are available, provide a copy. Provide a profile of soil encountered down to the groundwater table and the depth to the shallowest			

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 54)

٨	A dditio	mal arrel	honica	tions
Α.	Additio	nai auti	AOHZA	HOHS

Α.	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:
N	/A
В.	Permittee enforcement status
	Is the permittee currently under enforcement for this facility?
	□ Yes ⊠ No
	Is the permittee required to meet an implementation schedule for compliance or enforcement?
	□ Yes ⊠ No
	If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:
N	
Se	ection 13. RCRA/CERCLA Wastes (Instructions Page 55)
Α.	RCRA hazardous wastes
	Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?
	□ Yes ⊠ No

B. Remediation activity wastewater

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

□ Yes ⊠ No

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Doug Bailey

Title: President

Signature:

Date:

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

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.

The Developer that has the land under contract is interested in putting in a development for approximately 1,700 single family homes. Per the TCEQ rules, using 250 GPD per LUE, this development will require 425,000 GPD. The Developer plans to start construction in the fall of 2026. Their first phase consists of 400 homes, which would be handled by the first requested phase. The second phase of the development is for 800 homes, and he anticipates construction starting on that at the beginning of 2029. The final and third phase of the development is for the 500 homes and that phase should break ground in the summer of 2032. There are also two nearby properties that are interested in using some capacity in our plant. One property could be developed into approximately 250 homes and the other one could be approximately 450 homes. These two properties account for the additional capacity requested in phase 3.

B. Regionalization of facilities

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

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

1. Municipally incorporated areas

If the applicant is a city, then Item 1 is not applicable. 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: $\underline{N/A}$

If yes, attach correspondence from the city.

Attachment: N/A

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

Attachment: N/A

2. Utility CCN areas

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

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

□ Yes ⊠ No
If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.
Attachment: Click 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: <u>Appendix M</u>
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: <u>Appendix M</u>
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.
Costinus Department Organis Localing (Instructions Department)
Section 2. Proposed Organic Loading (Instructions Page 58)
Is this facility in operation?
□ Yes ⊠ No
If no, proceed to Item B, Proposed Organic Loading.
If yes, provide organic loading information in Item A, Current Organic Loading
A. Current organic loading
Facility Design Flow (flow being requested in application): Click to enter text.
Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click to enter text.
Average Influent Loading (lbs/day = total average flow X average BOD ₅ conc. X 8.34): $\frac{\text{Click}}{\text{to enter text.}}$
Provide the source of the average organic strength or BOD_5 concentration.
Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision	Ph I - 0.1 MGD Ph II - 0.35 MGD Ph III - 0.60 MGD	Ph I - 300 mg/l Ph II - 300 mg/l Ph III - 300 mg/l
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	Ph I - 0.1 MGD Ph II - 0.35 MGD Ph III - 0.60 MGD	Ph I - 300 mg/l Ph II - 300 mg/l Ph III - 300 mg/l
AVERAGE BOD₅ from all sources		

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 58)

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: <u>15</u>

Ammonia Nitrogen, mg/l: <u>2</u>
Total Phosphorus, mg/l: <u>N/A</u>
Dissolved Oxygen, mg/l: <u>N/A</u>

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: Click to enter text.

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: 8 mg/l after 20 minutes detention time at peak flow

Dechlorination process: N/A

□ Ultraviolet Light: <u>Click to enter text.</u> seconds contact time at peak flow

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 58)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: Appendix N

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

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

⊠ Yes □ No

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

Click to enter text.
Provide the source(s) used to determine 100-year frequency flood plain.
Flood Insurance Rate Map No. 48039Co280K
For a new or expansion of a facility, will a wetland or part of a wetland be filled?
□ Yes ⊠ No
If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?
□ Yes □ No
If yes, provide the permit number: N/A
If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.
Wind rose
Attach a wind rose: Appendix O
action 6 Permit Authorization for Sewage Sludge Disposal

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59)

A. Beneficial use authorization

B.

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

□ Yes ⊠ No

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

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056): N/A

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 60)

Attach a solids management plan to the application.

Attachment: Appendix P

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 63)
Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?
□ Yes ⊠ No
If no , proceed it Section 2. If yes , provide the following:
Owner of the drinking water supply: N/A
Distance and direction to the intake: N/A
Attach a USGS map that identifies the location of the intake.
Attachment: <u>N/A</u>
Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)
Does the facility discharge into tidally affected waters?
□ Yes ⊠ No
If no , proceed to Section 3. If yes , complete the remainder of this section. If no, proceed to Section 3.
A. Receiving water outfall
Width of the receiving water at the outfall, in feet: $\underline{N/A}$
B. Oyster waters
Are there oyster waters in the vicinity of the discharge?
□ Yes □ No
If yes, provide the distance and direction from outfall(s).
N/A
C. Sea grasses
Are there any sea grasses within the vicinity of the point of discharge?
□ Yes □ No
If yes, provide the distance and direction from the outfall(s).
N/A

Section 3. **Classified Segments (Instructions Page 63)** Is the discharge directly into (or within 300 feet of) a classified segment? Yes \boxtimes 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 63)** Name of the immediate receiving waters: Brazoria County DD5 Unnamed Ditch 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. 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). Intermittent - dry for at least one week during most years Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses Perennial - normally flowing Check the method used to characterize the area upstream (or downstream for new dischargers). USGS flow records Historical observation by adjacent landowners \boxtimes Personal observation Other, specify: Click to enter text.

		List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.							
	Brazo	ria County DD5 – Brunner Ditch	and Chocola	ate Bayou					
D.	Downs	stream characteristics							
		receiving water characteristi rge (e.g., natural or man-mad		rithin three miles downstream of the ads, reservoirs, etc.)?					
		Yes 🖾 No							
	If yes,	discuss how.							
	Click	to enter text.							
E.	Normal dry weather characteristics								
	Provid	Provide general observations of the water body during normal dry weather conditions.							
	Gener	ally dry in dry weather condition	ns						
	Date a	nd time of observation: <u>3/5/2</u>	025						
	Was th	e water body influenced by s	tormwater r	runoff during observations?					
	\boxtimes	Yes 🗆 No							
Se	ection	5. General Characte	ristics of	the Waterbody (Instructions					
		Page 65)	110(100 01	(1115) (1115)					
_	T I 4	! (! (! ! ! ! ! ! !							
Α.	-	eam influences	-4 C 41						
		immediate receiving water up iced by any of the following?		ne discharge or proposed discharge site nat apply.					
		Oil field activities	\boxtimes	Urban runoff					
		Upstream discharges	\boxtimes	Agricultural runoff					
		Septic tanks		Other(s), specify: Click to enter text.					

C. Downstream perennial confluences

B. Waterbody uses

Livestock watering Contact recreation Irrigation withdrawal Non-contact recreation **Fishing Navigation** Domestic water supply Industrial water supply Park activities \boxtimes Other(s), specify: Storm Runoff

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

C. Waterbody aesthetics

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

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall.

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

Section 1. General Information (Instructions Page 65)
Date of study: <u>N/A</u> Time of study: <u>N/A</u>
Stream name: <u>N/A</u>
Location: <u>N/A</u>
Type of stream upstream of existing discharge or downstream of proposed discharge (check one).
☐ Perennial ☐ Intermittent with perennial pools
Section 2. Data Collection (Instructions Page 65)
Number of stream bends that are well defined: <u>Click to enter text.</u>
Number of stream bends that are moderately defined: Click to enter text.
Number of stream bends that are poorly defined: Click to enter text.
Number of riffles: Click to enter text.
Evidence of flow fluctuations (check one):
☐ Minor ☐ moderate ☐ severe
Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.
Click to enter text.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect	Transect location	Water surface	Stream depths (ft) at 4 to 10 points along each
Select riffle, run, glide, or pool. See Instructions, Definitions section.		width (ft)	transect from the channel bed to the water surface. Separate the measurements with commas.
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 65)

Streambed slope of entire reach, from USGS map in feet/feet: Click to enter text.

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

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

Number of lateral transects made: Click to enter text.

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

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

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

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

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 67)

ldentif	y the method of land disposal:						
	Surface application		Subsurface application				
	Irrigation		Subsurface soils absorption				
	Drip irrigation system		Subsurface area drip dispersal system				
	Evaporation		Evapotranspiration beds				
	Other (describe in detail): Click	to eı	nter text.				
	NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.						

Section 2. Land Application Site(s) (Instructions Page 67)

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

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

Table 3.0(1) - Land Application Site Crops

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

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

Table 3.0(2) – Storage and Evaporation Ponds

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

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond. Attachment: Click to enter text.									
Section 4.	Flood and Ru	unoff Protectio	n (Instructions P	age 67)					
Is the land appli	cation site <u>withi</u>	<u>n</u> the 100-year freq	uency flood level?						
□ Yes □	No								
If yes, describe l	how the site will	be protected from	inundation.						
Click to enter to	ext.								
Provide the sour	ce used to deter	mine the 100-year	frequency flood level:						
Click to enter text.									
Provide a descripapplication site.	ption of tailwate	r controls and rain	fall run-on controls us	ed for the land					
Click to enter to	ext.								

Section 5. Annual Cropping Plan (Instructions Page 67)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: Click to enter text.

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

Section 6. Well and Map Information (Instructions Page 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: Click to enter text.

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

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) - Water Well Data

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

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

Attachment: Click to enter text.

Section 7. Groundwater Quality (Instructions Page 68)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: Click to enter text.
Are groundwater monitoring wells available onsite? \square Yes \square No
Do you plan to install ground water monitoring wells or lysimeters around the land application site? \Box Yes \Box No
If yes, provide the proposed location of the monitoring wells or lysimeters on a site map.
Attachment: Click to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

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

Attachment: Click to enter text.

B. Soil analyses

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

Attachment: Click to enter text.

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

Table 3.0(4) - Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 70)

able 3.0(5) - I		_	i tiic caisti	ng permit,	enter N/A.	
` '	Effluent Monitorin	g Data				
Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	рН	Chlorine Residual mg/l	Acres irrigated

corrective actions taken.					
Click to enter text.					

Provide a discussion of all persistent excursions above the permitted limits and any

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

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

Section 1. Surface Disposal (Instructions Page 71)

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

A. Irrigation

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

Design application frequency:

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

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

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

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

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

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

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

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

Area of bed(s), in acres: <u>Click to enter text.</u>

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

Void ratio of soil in the beds: <u>Click to enter text.</u>

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

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

Attachment: Click to enter text.

D	Over	land	flo	1 1/
ν.	Over.	ıanu	\mathbf{H}	w

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

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

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

Slope length, in feet: <u>Click to enter text.</u>

Design BOD₅ loading rate, in lbs BOD₅/acre/day: Click to enter text.

Design application frequency:

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

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 72)

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

□ Yes ⊠ No

If yes, is the facility located on the Edwards Aquifer Recharge Zone?

□ Yes □ No

If yes, attach a geological report addressing potential recharge features.

Attachment: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

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

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

Section 1. Subsurface Application (Instructions Page 73)
Identify the type of system:
Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
□ Low Pressure Dosing
☐ Other, specify: <u>Click to enter text.</u>
Application area, in acres: Click to enter text.
Area of drainfield, in square feet: Click to enter text.
Application rate, in gal/square foot/day: Click to enter text.
Depth to groundwater, in feet: Click to enter text.
Area of trench, in square feet: Click to enter text.
Dosing duration per area, in hours: <u>Click to enter text.</u>
Number of beds: Click to enter text.
Dosing amount per area, in inches/day: Click to enter text.
Infiltration rate, in inches/hour: Click to enter text.
Storage volume, in gallons: Click to enter text.
Area of bed(s), in square feet: Click to enter text.
Soil Classification: Click to enter text.
Attach a separate engineering report with the information required in $30\ TAC\ \S\ 309.20$, excluding the requirements of $\S\ 309.20\ b(3)(A)$ and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.
Attachment: Click to enter text.
Section 2. Edwards Aquifer (Instructions Page 73)
Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?
□ Yes □ No
Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?
□ Yes □ No
If yes to either question , the subsurface system may be prohibited by <i>30 TAC §213.8</i> . Please

call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

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

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

Su	bsurface Area Drip Dispersal System.
Se	ection 1. Administrative Information (Instructions Page 74)
A.	Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:
В.	<u>Click to enter text.</u> Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?
	□ Yes □ No
	If no , provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.
	Click to enter text.
C.	Owner of the subsurface area drip dispersal system: Click to enter text.
D.	Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?
	□ Yes □ No
	If no , identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.
	Click to enter text.
Е.	Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.
F.	Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?
	□ Yes □ No
	If no , identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.
	Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 74)

A.	Type of system
	□ Subsurface Drip Irrigation
	□ Surface Drip Irrigation
	□ Other, specify: <u>Click to enter text.</u>
B.	Irrigation operations
	Application area, in acres: <u>Click to enter text.</u>
	Infiltration Rate, in inches/hour: Click to enter text.
	Average slope of the application area, percent (%): Click to enter text.
	Maximum slope of the application area, percent (%): Click to enter text.
	Storage volume, in gallons: <u>Click to enter text.</u>
	Major soil series: <u>Click to enter text.</u>
	Depth to groundwater, in feet: Click to enter text.
C.	Application rate
	Is the facility located west of the boundary shown in <i>30 TAC § 222.83</i> and also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?
	□ Yes □ No
	If yes , then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.
	Is the facility located east of the boundary shown in <i>30 TAC § 222.83</i> or in any part of the state when the vegetative cover is any crop other than non-native grasses?
	□ Yes □ No
	If yes , the facility must use the formula in <i>30 TAC §222.83</i> to calculate the maximum hydraulic application rate.
	Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?
	□ Yes □ No
	Hydraulic application rate, in gal/square foot/day: Click to enter text.
	Nitrogen application rate, in lbs/gal/day: Click to enter text.
D.	Dosing information
	Number of doses per day: Click to enter text.

Dosing duration per area, in hours: <u>Click to enter text.</u>
Rest period between doses, in hours: <u>Click to enter text.</u>

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

Number of zones: Click to enter text. Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop? Yes □ If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting. **Attachment:** Click to enter text. Section 3. Required Plans (Instructions Page 74) A. Recharge feature plan Attach a Recharge Feature Plan with all information required in 30 TAC §222.79. Attachment: Click to enter text. B. Soil evaluation Attach a Soil Evaluation with all information required in 30 TAC §222.73. **Attachment:** Click to enter text. C. Site preparation plan Attach a Site Preparation Plan with all information required in 30 TAC §222.75. **Attachment:** Click to enter text. D. Soil sampling/testing Attach soil sampling and testing that includes all information required in 30 TAC §222.157. Attachment: Click to enter text. Floodway Designation (Instructions Page 75) Section 4. A. Site location Is the existing/proposed land application site within a designated floodway? Yes □ No

B. Flood map

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

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 75)

A. Buffer Map

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

Attachment: Click to enter text.

□ Yes □ No
If yes, then attach the additional information required in 30 TAC § 222.81(c).
Attachment: Click to enter text.
Costion C. Edwards Assifon (Instructions Boso 75)
Section 6. Edwards Aquifer (Instructions Page 75)
A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?
□ Yes □ No
B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?
□ Yes □ No
If yes to either question , then the SADDS may be prohibited by <i>30 TAC §213.8</i> . Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

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

B. Buffer variance request

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 76)

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

Grab □ Composite □

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

Table 4.0(1) - Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) (*1)				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10
Cyanide (*2)				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10
Diuron				0.09
Endosulfan I (alpha)				0.01

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Epichlorohydrin				
Ethylbenzene				10
Ethylene Glycol				
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane				0.05
(Lindane)				
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
4,4'-Isopropylidenediphenol				1
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Methyl tert-butyl ether				
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10
Polychlorinated Biphenyls (PCB's) (*3)				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

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

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

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

Section 2. Priority Pollutants

	For 1	oollutants	identified	in Tables	4.0(2)A-E	indicate	type of	sample.
--	-------	------------	------------	-----------	-----------	----------	---------	---------

Grab □ Composite □

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

Table 4.0(2)A - Metals, Cyanide, and Phenols

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

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

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

Table 4.0(2)B - Volatile Compounds

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

Table 4.0(2)C - Acid Compounds

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

Table 4.0(2)D - Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azobenzene)				20
Fluoranthene				10

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

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Aldrin				0.01
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

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

Section 3. Dioxin/Furan Compounds

Α.		te which of the following compounds from may be present in the influent from a buting industrial user or significant industrial user. Check all that apply.
		2,4,5-trichlorophenoxy acetic acid
		Common Name 2,4,5-T, CASRN 93-76-5
		2-(2,4,5-trichlorophenoxy) propanoic acid
		Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
		2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
		Common Name Erbon, CASRN 136-25-4
		0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
		Common Name Ronnel, CASRN 299-84-3
		2,4,5-trichlorophenol
		Common Name TCP, CASRN 95-95-4
		hexachlorophene
		Common Name HCP, CASRN 70-30-4
		ch compound identified, provide a brief description of the conditions of its/their nce at the facility.
	Click	to enter text.
В.		u know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin 0) or any congeners of TCDD may be present in your effluent?
В.		
В.	(TCDI	o) or any congeners of TCDD may be present in your effluent?
В.	(TCDI	o) or any congeners of TCDD may be present in your effluent? Yes No
В.	(TCDI	o) or any congeners of TCDD may be present in your effluent? Yes No provide a brief description of the conditions for its presence.
В.	(TCDI	o) or any congeners of TCDD may be present in your effluent? Yes No provide a brief description of the conditions for its presence.

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F. For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab □ Composite □

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

Table 4.0(2)F - Dioxin/Furan Compounds

Compound	Toxic Equivalenc y Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of **1.0 MGD** or **greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

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

7-day Chronic: <u>Click to enter text.</u>
48-hour Acute: <u>Click to enter text.</u>

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?
□ Yes □ No
If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

Click to enter text.		

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 87)

A.	Industrial	users ((IUs))
----	-------------------	---------	-------	---

B.

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

If there are no users, enter 0 (zero).
Categorical IUs:
Number of IUs: Click to enter text.
Average Daily Flows, in MGD: Click to enter text.
Significant IUs - non-categorical:
Number of IUs: Click to enter text.
Average Daily Flows, in MGD: Click to enter text.
Other IUs:
Number of IUs: Click to enter text.
Average Daily Flows, in MGD: <u>Click to enter text.</u>
Treatment plant interference
In the past three years, has your POTW experienced treatment plant interference (see instructions)?
□ Yes □ No
If yes , identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.
Click to enter text.

	In the past three years, has your POTW experienced pass through (see instructions)?
	□ Yes □ No
	If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.
	Click to enter text.
D.	Pretreatment program
	Does your POTW have an approved pretreatment program?
	□ Yes □ No
	If yes, complete Section 2 only of this Worksheet.
	Is your POTW required to develop an approved pretreatment program?
	□ Yes □ No
	If yes, complete Section 2.c. and 2.d. only, and skip Section 3.
	If no to either question above , skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.
Se	ction 2. POTWs with Approved Programs or Those Required to
	Develop a Program (Instructions Page 87)
A.	Substantial modifications
	Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to <i>40 CFR §403.18</i> ?
	□ Yes □ No
	If yes , identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.
	Click to enter text.

C. Treatment plant pass through

		ny non-substantial i e not been submitted					
	□ Yes □	No					
If yes, identify all non-substantial modifications that have not been submitted to including the purpose of the modification.					nitted to TCEQ,		
	Click to enter tex	t.					
C.	Effluent paramete	ers above the MAL					
	In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary. Table 6.0(1) – Parameters Above the MAL						
Po	ollutant	Concentration	MAL	Units	Date		
D.	Industrial user in	terruptions					
	Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years? Yes No If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.						
	Click to enter tex	t.					

B. Non-substantial modifications

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 88)

	Categorical industrial User (CIU) (instructions Page 88)					
A.	General information					
	Company Name: Click to enter text.					
	SIC Code: Click to enter text.					
	Contact name: Click to enter text.					
	Address: Click to enter text.					
	City, State, and Zip Code: Click to enter text.					
	Telephone number: Click to enter text.					
	Email address: Click to enter text.					
B.	. Process information					
	Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).					
	Click to enter text.					
C.	Product and service information					
	Provide a description of the principal product(s) or services performed.					
	Click to enter text.					
D.	Flow rate information					
See the Instructions for definitions of "process" and "non-process wastewater."						
	Process Wastewater:					
	Discharge, in gallons/day: Click to enter text.					
	Discharge Type: □ Continuous □ Batch □ Intermittent					

Batch

Intermittent

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

Discharge Type: ☐ Continuous

Non-Process Wastewater:

E.	Pretreatment standards
	Is the SIU or CIU subject to technically based local limits as defined in the <i>i</i> nstructions?
	□ Yes □ No
	Is the SIU or CIU subject to categorical pretreatment standards found in $40\ CFR\ Parts\ 405-471?$
	□ Yes □ No
	If subject to categorical pretreatment standards , indicate the applicable category and subcategory for each categorical process.
	Category: Subcategories: Click to enter text.
	Click or tap here to enter text. Click to enter text.
	Category: Click to enter text.
	Subcategories: Click to enter text.
	Category: Click to enter text.
	Subcategories: Click to enter text.
	Category: Click to enter text.
	Subcategories: Click to enter text.
	Category: Click to enter text.
	Subcategories: Click to enter text.
F.	Industrial user interruptions
	Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?
	□ Yes □ No
	If yes , identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.
	Click to enter text.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

Section 1. General Information (Instructions Page 90)

1	TCTO	D-40	A
1.	ICEQ	Program	Area

Program Area (PST, VCP, IHW, etc.): Click to enter text.

Program ID: Click to enter text.

Contact Name: <u>Click to enter text.</u>
Phone Number: <u>Click to enter text.</u>

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

□ Owner □ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

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

Facility Contact Person: <u>Click to enter text.</u>

Phone Number: Click to enter text.

5.	Latitude and Longitude, in degrees-minutes-seconds							
	Latitude: Click to enter text.							
	Longitude: Click to enter text.							
	Method of determination (GPS, TOPO, etc.): Click to enter text.							
	Attach topographic quadrangle map as attachment A.							
6.	Well Information							
	Type of Well Construction, select one:							
	□ Vertical Injection							
	□ Subsurface Fluid Distribution System							
	☐ Infiltration Gallery							
	☐ Temporary Injection Points							
	□ Other, Specify: <u>Click to enter text.</u>							
	Number of Injection Wells: <u>Click to enter text.</u>							
7.	Purpose							
	Detailed Description regarding purpose of Injection System:							
	Click to enter text.							
	Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)							
8.	Water Well Driller/Installer							
	Water Well Driller/Installer Name: Click to enter text.							
	City, State, and Zip Code: Click to enter text.							
	Phone Number: Click to enter text.							
	License Number: Click to enter text.							
Section	2. Proposed Down Hole Design							
	diagram signed and sealed by a licensed engineer as Attachment C.							
	(1) - Down Hole Design Table							
rable 7.0	(1) - Down note besign rable							

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

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

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

System(s) Dimensions: <u>Click to enter text.</u> System(s) Construction: <u>Click to enter text.</u>

Section 4.	Site Hydrogeo	logical and Iı	niection Z	one Data

- 1. Name of Contaminated Aquifer: Click to enter text.
- 2. Receiving Formation Name of Injection Zone: Click to enter text.
- 3. Well/Trench Total Depth: Click to enter text.
- **4.** Surface Elevation: Click to enter text.
- **5.** Depth to Ground Water: <u>Click to enter text.</u>
- **6.** Injection Zone Depth: <u>Click to enter text.</u>
- 7. Injection Zone vertically isolated geologically?

 Yes

 No

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

Name: Click to enter text.

Thickness: Click to enter text.

- **8.** Provide a list of contaminants and the levels (ppm) in contaminated aquifer Attach as Attachment E.
- **9.** Horizontal and Vertical extent of contamination and injection plume Attach as Attachment F.
- **10.** Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc. Attach as Attachment G.
- **11.** Injection Fluid Chemistry in PPM at point of injection Attach as Attachment H.
- 12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.
- 13. Maximum injection Rate/Volume/Pressure: Click to enter text.
- **14.** Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.
- 15. Injection wells within 1/4 mile radius (attach map as Attachment J): <u>Click to enter text.</u>
- 16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.
- 17. Sampling frequency: Click to enter text.
- **18.** Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

- **1.** Type of Facility: Click to enter text.
- 2. Contamination Dates: Click to enter text.
- 3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): Click to enter text.
- **4.** Previous Remediation (attach results of any previous remediation as attachment M): Click to enter text.

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

Class V Injection Well Designations

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

Appendices

Appendix A

Core Data Form

Appendix B

Plain Language Summary

Appendix C

Public Involvement Plan

Appendix D

Original Photographs

Appendix E

Buffer Zone Map

Appendix F

SPIF Form & SPIF USGS Map

Appendix G

Original USGS Map

Appendix H

Landowners Map and Cross-Referenced List

Appendix I

Treatment Process Description

Appendix J

Treatment Unit Descriptions

Appendix K

Flow Diagram

Appendix L

Site Drawing

Appendix M

CCN Service Request

Appendix N

Design Calculations

Appendix O

Wind Rose

Appendix P

Solids Management Plan



Core Data Form

TCEQ Use Only



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked ple	ase describe in space provid	ed.)
New Permit, Registration or Authorization (Core	e Data Form should be subm	itted with the program application,)
Renewal (Core Data Form should be submitted	with the renewal form)	☐ Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN	3. Regulated Entity Reference Number (if issued)
CN 602602179	numbers in Central Registry	RN

4. General	Custom	or InfOr	mation	E Effective	Date fo	r Cuet	omo	r Inform	nation Updates	lmm/c	ld (\aaa)	1
4. General	Custome	er inior	mation	5. Ellective	Date 10	Cust	.Onse	i inioin	lation Opdates	(IIIII) C	іал уууул	
New Cus				Update to					☐ Change in F	_	•	vnership
☐Change in	Legal Na	me (Ve	ifiable with t	he Texas Secr	etary of S	tate or	Теха	s Comptr	roller of Public Ac	counts)	
The Custon	ner Nam	e subm	itted here i	may be upda	ted auto	matic	ally	based o	n what is currer	nt and	active with	the Texas
				nptroller of P			•					
6. Custome	er Legal	Name (if an individu	ıal, print last na	ıme first: e	g: Doe,	John)	If new Custome	<u>r, enter</u>	<u>previous Cus</u>	stomer below:
South Centra	al \Y/ator (Omnani	,						1			5
Journ Certife	it water c	zornpan	/									
7. TX SOS/	CPA Fili	ng Nun	ber	8. TX State	Tax ID (1	1 digits	s)		9. Federal Ta	x ID		S Number (if
0161296200				17606670101	6670101			(g digits)		applicable	e)	
0101290200				1,0000,0101						N/A		
									N/A			
11. Type of Customer:								☐ Indivi	idual Partnership: 🗌 General 🗌 Lir			eneral 🗌 Limited
Government	City [Count	y 🔲 Federa	Local S	State 🔲 C	ther		☐ Sole	Proprietorship			
12. Numbe	r of Emp	loyees							13. Independently Owned and Operated?			Operated?
⊠ 0-20 □	21-100	101	250 T 2	51-500 🗆 50	01 and hig	hor			Yes	☐ No		
M 0-20 L	21-100		250 12	21-200 🗖 20	or and mg	jilei			l les	□ 140		
14. Custom	er Role (Propose	d or Actual)	– as it relates t	to the Reg	ulated	Entity	listed on	this form. Please	check o	ne of the foli	lowing
☐0wner			Operator	×	Owner 8	k Opera	ator		☐ Other:			
□Occupatio	nal Licens	see [Responsib	ole Party	☐ VCP	/BSA A	Applio	cant	☐ Other.			
15.	P.O. Box	x 570177				_						
nailing												
Mailing												
Address:	City	Houst	on		State	State TX		ZIP 77257			ZIP+4	L
					l .	L		1				1
16. Country	Mailing	Inform	ation (if out	side USA)			17.	E-Mail A	Address (if applic	able)		
							Dou	ug@South	ncentralww.com			-

TCEQ-10400 (11/22) Page 1 of 3

(713)783-6611							() -		
SECTION III: Regulated Entity Information										
21. General Regulated						5/2	ermit ap	plication is also	o required	<u> </u>
New Regulated Entity	☑ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information									
The Regulated Entity I organizational ending				rder to	meet	TCEQ Col	re Dato	a Standards (remova	lof
22. Regulated Entity N	Name (Ente	er name of the si	te where the regu	ulated a	ction is	taking pla	ce.)			
Alvin 350 Wastewater Tre	eatment Pla	nt								
23. Street Address of the Regulated Entity:										
(No PO Boxes)	City		State	TX		ZIP	786	12	ZIP+4	
24. County	Bastrop							HE 2.244		1
	If no Street Address is provided, fields 25-28 are required.									
25. Description to										
Physical Location:	2,200 Ft S	outh of the inte	rsection betwee	n Count	y Road	l 172 and C	ounty F	load 511 in Braz	zoria Cou	nty, Texas
26. Nearest City State Nearest ZIP Code										
Alvin							TX	==	78	612
Latitude/Longitude at Address may be used t	•								ieocodin	g of the Physical
27. Latitude (N) In Dec	imal:	29.325356			28. L	ongitude.	(W) Ir	Decimal:	95.3308	386
Degrees	Minutes		Seconds		Degr	ees		Minutes	W 200 CC	Seconds
29*		19'	31.28*			95		19'		51.19
29. Primary SIC Code (4 digits)		Secondary S	IC Code	_	Prima r 6 dig	ry NAICS its)	Code	32. Seco (5 or 6 di		NAICS Code
4952										Ĭ
33. What is the Primar	y Busines	of this entity	? (Do not repe	at the SI	C or NA	AICS descri	ption.)			
Wastewater Utilities										
34. Mailing	P.O. Box	570177								
Address:										
	City	Houston	State	TX		ZIP	7725	7	ZIP+4	
35. E-Mail Address:	Dou	ıg@Southcentr	alww.com				-			
36. Telephone Numbe	r		37. Extension	or Co	de	38. F	ax Nu	mber (if applie	cable)	-
(713)783-6611						() -			

19. Extension or Code

20. Fax Number (if applicable)

18. Telephone Number

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☐ Municipal Solid Waste ☐ Sludge ☐ Voluntary Cleanup ☐ ECTION IV: Pre ☐ Audrey Anderso		☐ Edwards Aquifer ☐ OSSF ☐ Title V Air ☐ Wastewater Agri		☐ Petrole ☐ Tires ☐ Water F	ons Inventory Air um Storage Tank Rights	☐ Industrial Hazardous Waste ☐ PWS ☐ Used Oil ☐ Other:
Sludge Voluntary Cleanup ECTION IV: Pre O. Name: Audrey Anderso	Storm Water Storm Water Wastewater Pending Parer Info	☐ Title V Air ☐ Wastewater Agr	culture	☐ Tires		☐ Used Oil
Voluntary Cleanup ECTION IV: Pre Go. Name: Audrey Anderso		☐ Wastewater Agr	culture	□ Water F	Rights	
ECTION IV: Pre 40. Name: Audrey Anderso	Pending parer Info				Rights	Other:
ECTION IV: Pre 10. Name: Audrey Anderso	parer Info	ormation	41 Title			
10. Name: Audrey Anderso		ormation	41 Title	1		
	on		41 Title			
a Talauhana Nizushan			42. 1140.	Projec	t Engineer	
2. Telephone Number 4	3. Ext./Code	44. Fax Number	45. E-Ma	ail Addre	ss	
346)771-5311	(- (AAnders	on@wga-l	p.com	
ECTION V: Auth	horized Si	gnature				
i. By my signature below, I certignature authority to submit this entified in field 39.						
Company: South Cent	tral Water Company	у	Job Title	: Presi	dent	
Name (In Print): Doug Baile	Py O				Phone:	(713)783- 6611
Signature:	~ \/-	*			Date:	2-27-25
- · · ·	- 1	0			•	

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates

TCEQ-10400 (11/22) Page 3 of 3



Plain Language Summary



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

South Central Water Company (CN602602179) proposes to operate Alvin 350 Wastewater Treatment Plant (RN112197520), an activated sludge processing plant. The facility will be located at 2,200 Ft South of the intersection between County Road 172 and County Road 511, in Alvin, Brazoria County, Texas 77511. This permit is to authorize the discharge of treated domestic wastewater to a volume not to exceed an average flow of 600,000 gallons per day.

Discharges from the facility are expected to contain free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, pH differences, and temperature differences. Domestic wastewater will be treated by an activated sludge processing plant consisting of the following treatment units: bar screens, aeration basins, digester basins, clarifiers, a lift station, and chlorine contact basins.

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

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

Compañía de Agua Central del Sur (CN602602179) propone operar Planta de tratamiento de aguas residuales Alvin 350 (RN112197520RN), una Planta de procesamiento de lodos activados. La instalación estará ubicada en 2,200 pies al sur de la intersección entre County Road 172 y County Road 511, en Alvin, Condado de Brazoria, Texas 77511. Este permiso es para autorizar la descarga de aguas residuales domésticas tratadas a un volumen que no exceda un flujo promedio de 600,000 galones por día.

Se espera que las descargas de la instalación contengan cloro libre disponible, cloro residual total, sólidos suspendidos totales, aceite y grasa, hierro total, diferencias de pH y diferencias de temperatura. Aguas residuales domésticas. está tratado por Una planta de procesamiento de lodos activados que consta de las siguientes unidades de tratamiento: cribas de barras, cuencas de aireación, cuencas de digestores, clarificadores, una estación de bombeo y cuencas de contacto con cloro.



Public Involvement Plan

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

New Permit or Registration Application

New Activity - modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

Requires public notice,

Considered to have significant public interest, and

Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

Public Involvement Plan not applicable to this application. Provide **brief** explanation.

TCEQ-20960 (02-09-2023)

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

D ' 1	1 1		C 1 1	
Provide 3	hrigt d	accrintion	of planned	activation
I I OVIUE a	титет и	CSCLIDUOL	от планиси	activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

language notice is n	ecessary. Please pro	ovide the following info	ormation.	
(City)				
(County)				
(Census Tract) Please indicate which City	of these three is the County	e level used for gatherin Census Tract	ng the following informat	tion.
(a) Percent of people	over 25 years of age	e who at least graduated	from high school	
- -		the specified location	race within the specified	location
(d) Percent of Linguis	stically Isolated Hous	seholds by language wit	hin the specified locatior	1
(e) Languages commo	only spoken in area l	by percentage		
(f) Community and/o	or Stakeholder Group	os		
(g) Historic public int	terest or involvemen	t		

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

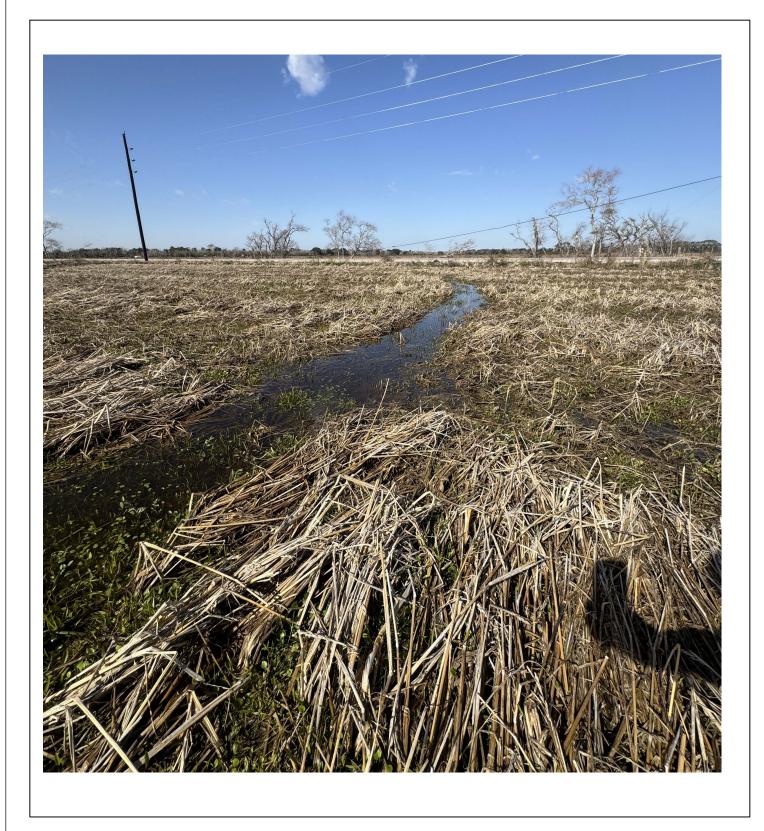
Other (specify)



Original Photographs







ORIGINAL PHOTOGRAPH NO. 1 UPSTREAM

DATE

JOB NO.

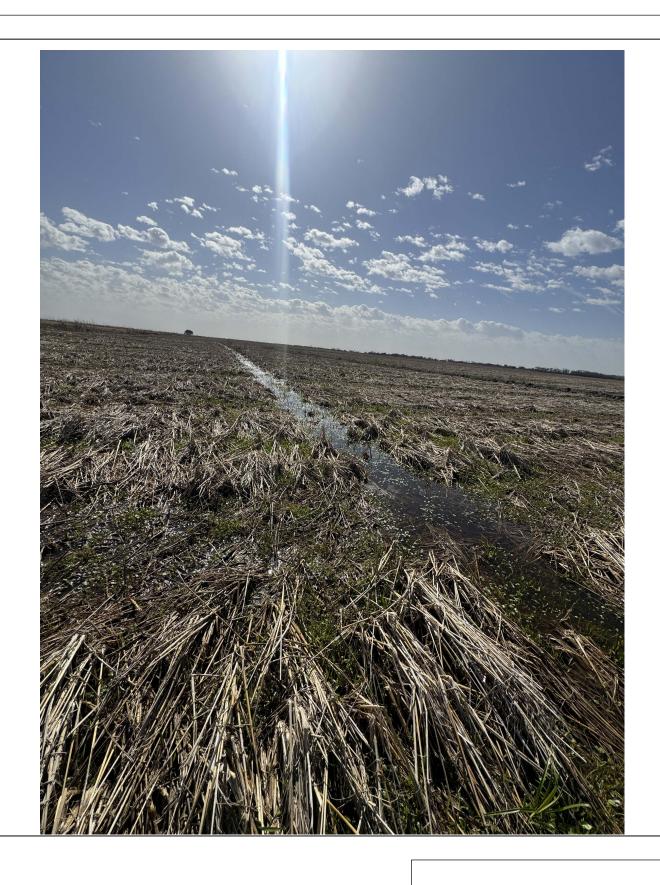
ALVIN 350 WASTEWATER TREATMENT PLANT

DRAWN BY:



4526 Research Forest, Suite 360 The Woodlands, Texas 77381 713.789.1900 2500 Tanglewild, Suite 120 Houston, Texas 77063 713.789.1900





ORIGINAL PHOTOGRAPH NO. 2
DOWNSTDEAM

JOB NO.

DATE

ALVIN 350 WASTEWATER TREATMENT PLANT

DRAWN BY:



TEXAS REGISTERED ENGINEERING FIRM F-9756

By: aanderson



ORIGINAL PHOTOGRAPH NO. 2 WWTP LOCATION

JOB NO.

DATE

ALVIN 350 WASTEWATER TREATMENT PLANT

DRAWN BY:

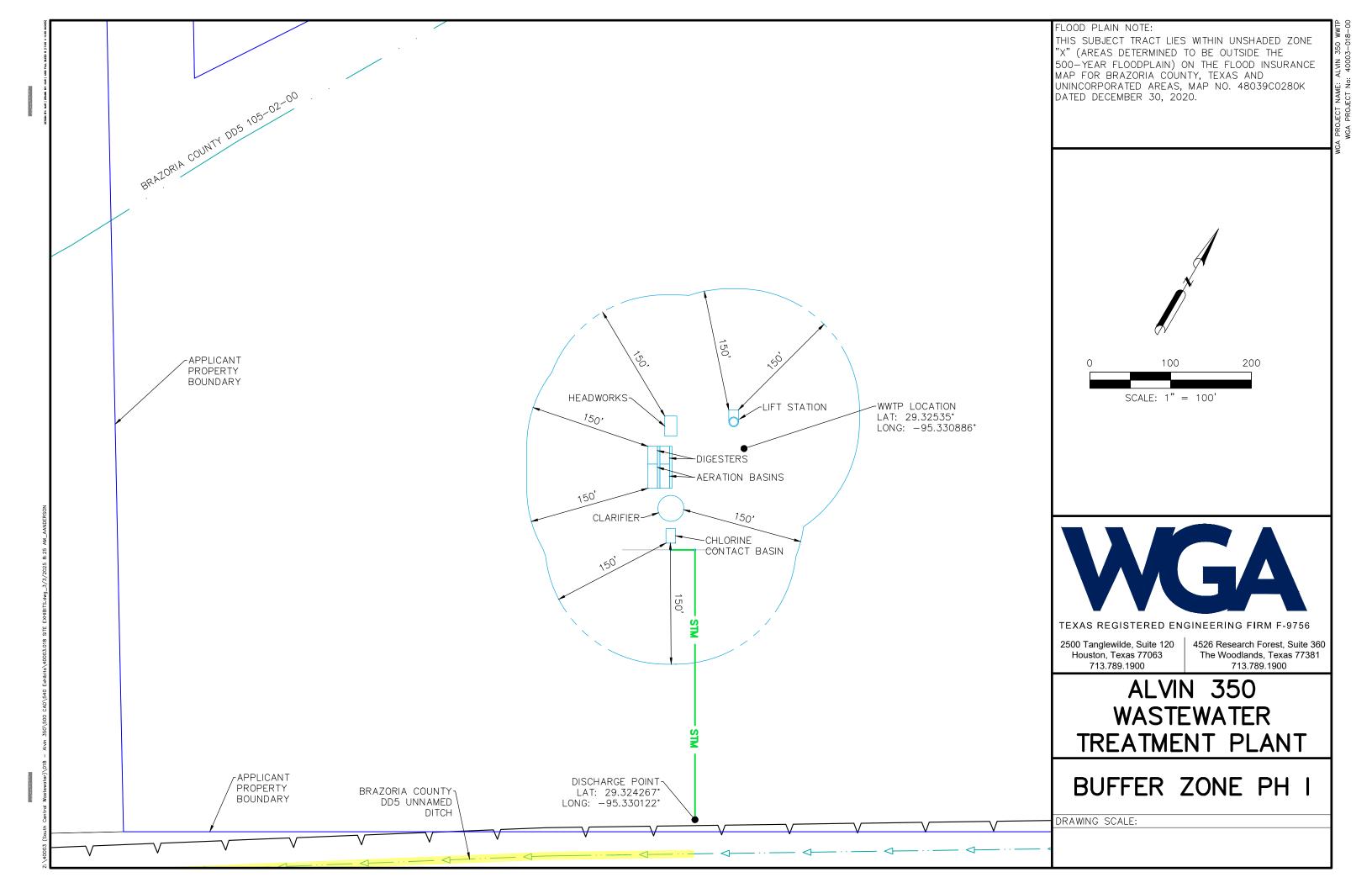


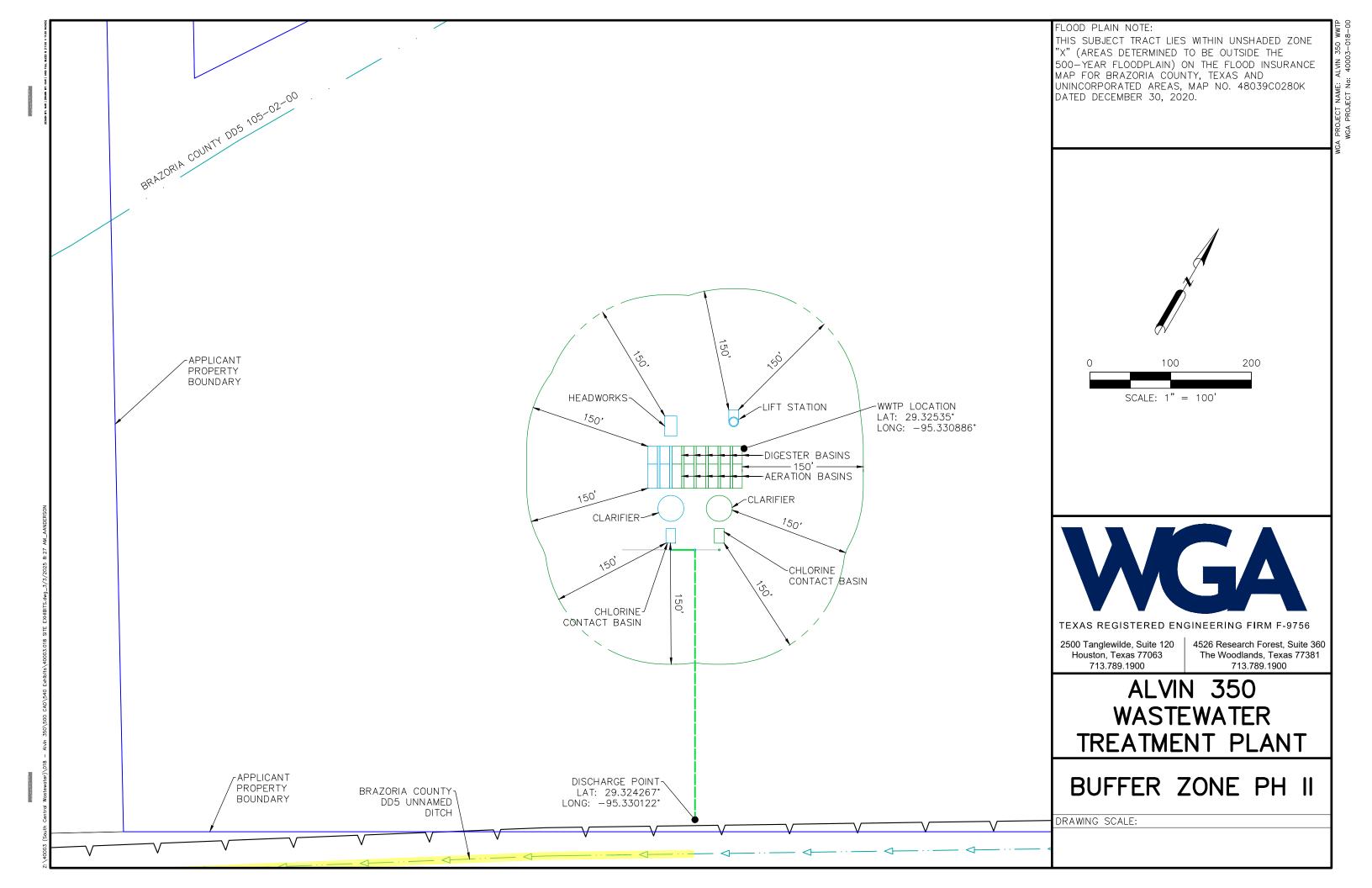
2500 Tanglewild, Suite 120 Houston, Texas 77063 713.789.1900

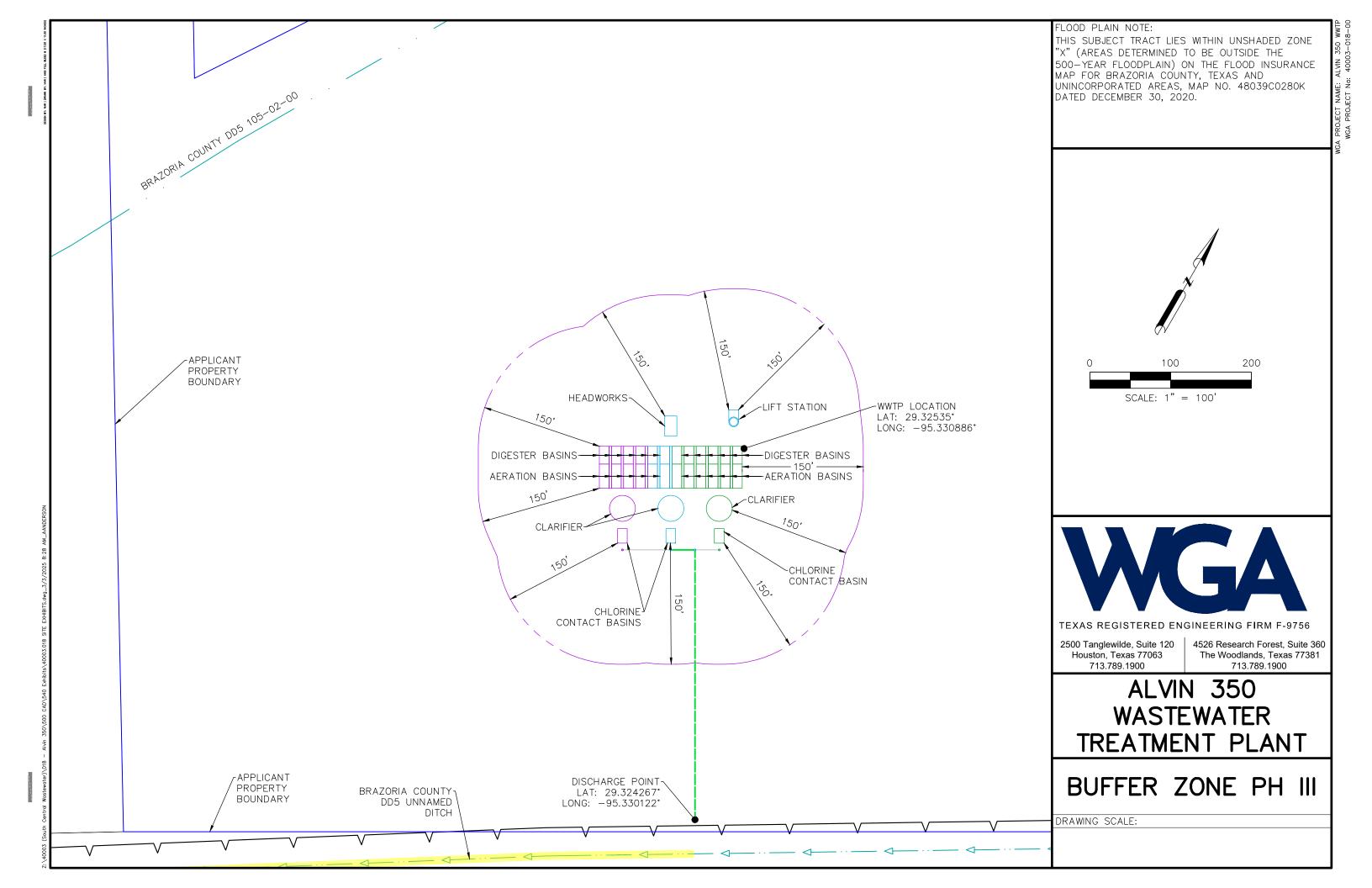
4526 Research Forest, Suite 360 The Woodlands, Texas 77381 713.789.1900



Buffer Zone Map









SPIF Form & SPIF USGS Map

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

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:
Application type:RenewalMajor AmendmentMinor AmendmentNew
County: Segment Number:
Admin Complete Date:
Agency Receiving SPIF:
Texas Historical Commission U.S. Fish and Wildlife
Texas Parks and Wildlife Department U.S. Army Corps of Engineers
This form applies to TPDES permit applications only. (Instructions, Page 53)
Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.
Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.
The following applies to all applications:
1. Permittee: <u>South Central Water Company</u>
Permit No. WQ00 <u>Pending</u> EPA ID No. TX <u>Pending</u>
Address of the project (or a location description that includes street/highway, city/vicinity, and county):
2,200 Feet south of the intersection between County Road 172 and County Road 511 in the City of Alvin, Brazoria County, Texas

	Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.
	Prefix (Mr., Ms., Miss): Mr.
	First and Last Name: <u>Doug Bailey</u>
	Credential (P.E, P.G., Ph.D., etc.):
	Title: <u>President</u>
	Mailing Address: PO Box 570177
	City, State, Zip Code: <u>Houston, Texas 77257</u>
	Phone No.: <u>713-783-6611</u> Ext.: Fax No.:
	E-mail Address: <u>Doug@soutcentralww.com</u>
2.	List the county in which the facility is located:
3.	
	please list the owner of the property. N/A
4.	Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.
	The effluent discharges into an unnamed ditch where it will travel for 1175-ft before
	oufalling into Brazoria County Drainage District 5 Brunner Ditch from a Culvert.
5.	Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).
	Provide original photographs of any structures 50 years or older on the property.
	Does your project involve any of the following? Check all that apply.
	☑ Proposed access roads, utility lines, construction easements
	☐ Visual effects that could damage or detract from a historic property's integrity
	☐ Vibration effects during construction or as a result of project design
	Additional phases of development that are planned for the future
	☐ Sealing caves, fractures, sinkholes, other karst features

	☑ Disturbance of vegetation or wetlands
1.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features): Proposed Wastewater treatment plant including underground piping, utilities, varying depths between 0 and 20-ft below ground.
2.	Describe existing disturbances, vegetation, and land use: Property is considered irrigated crop land. Property has no existing structures
	E FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR MENDMENTS TO TPDES PERMITS
3.	List construction dates of all buildings and structures on the property:
	N/A. No existing buildings
4.	Provide a brief history of the property, and name of the architect/builder, if known.
	Irrigated crop land.

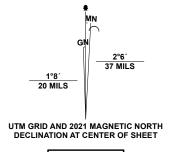




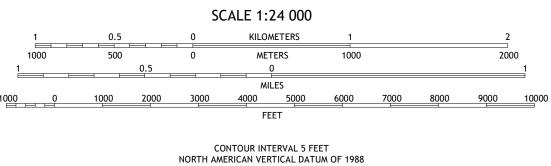
Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 15R
Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation,
Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC)
Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

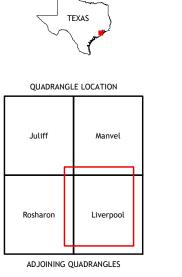
Learn About The National Map: https://nationalmap.gov



Grid Zone Designati 15R



CONTOUR SMOOTHNESS = Medium





7.5-MINUTE TOPO, TX 2025



Original USGS Map

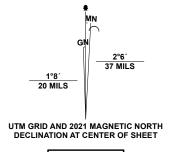




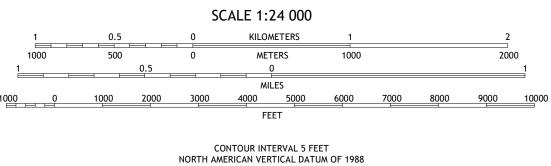
Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 15R
Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation,
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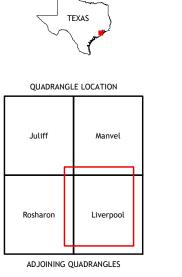
Learn About The National Map: https://nationalmap.gov



Grid Zone Designati 15R

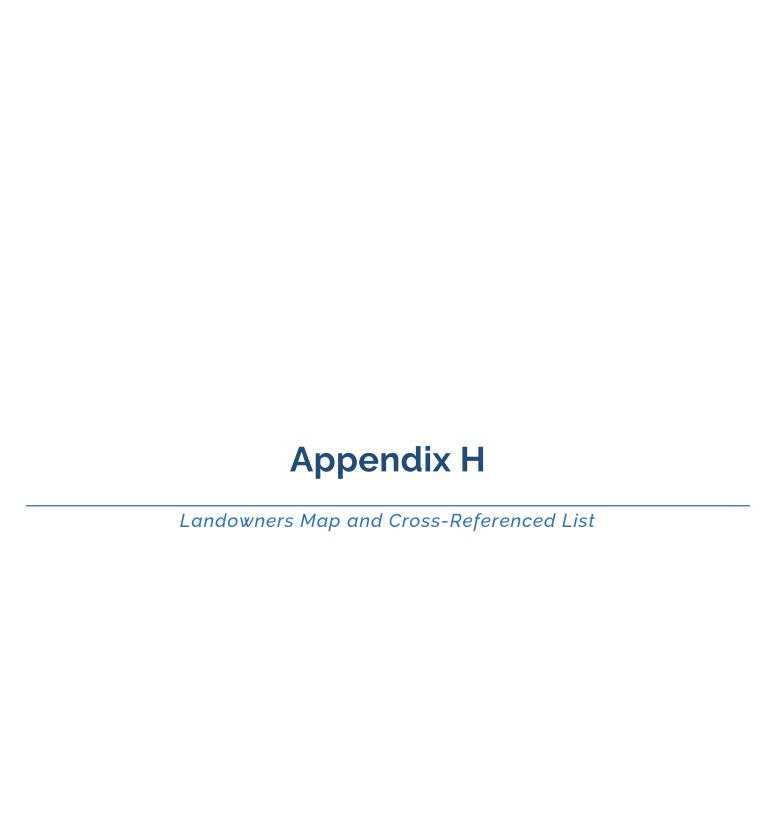


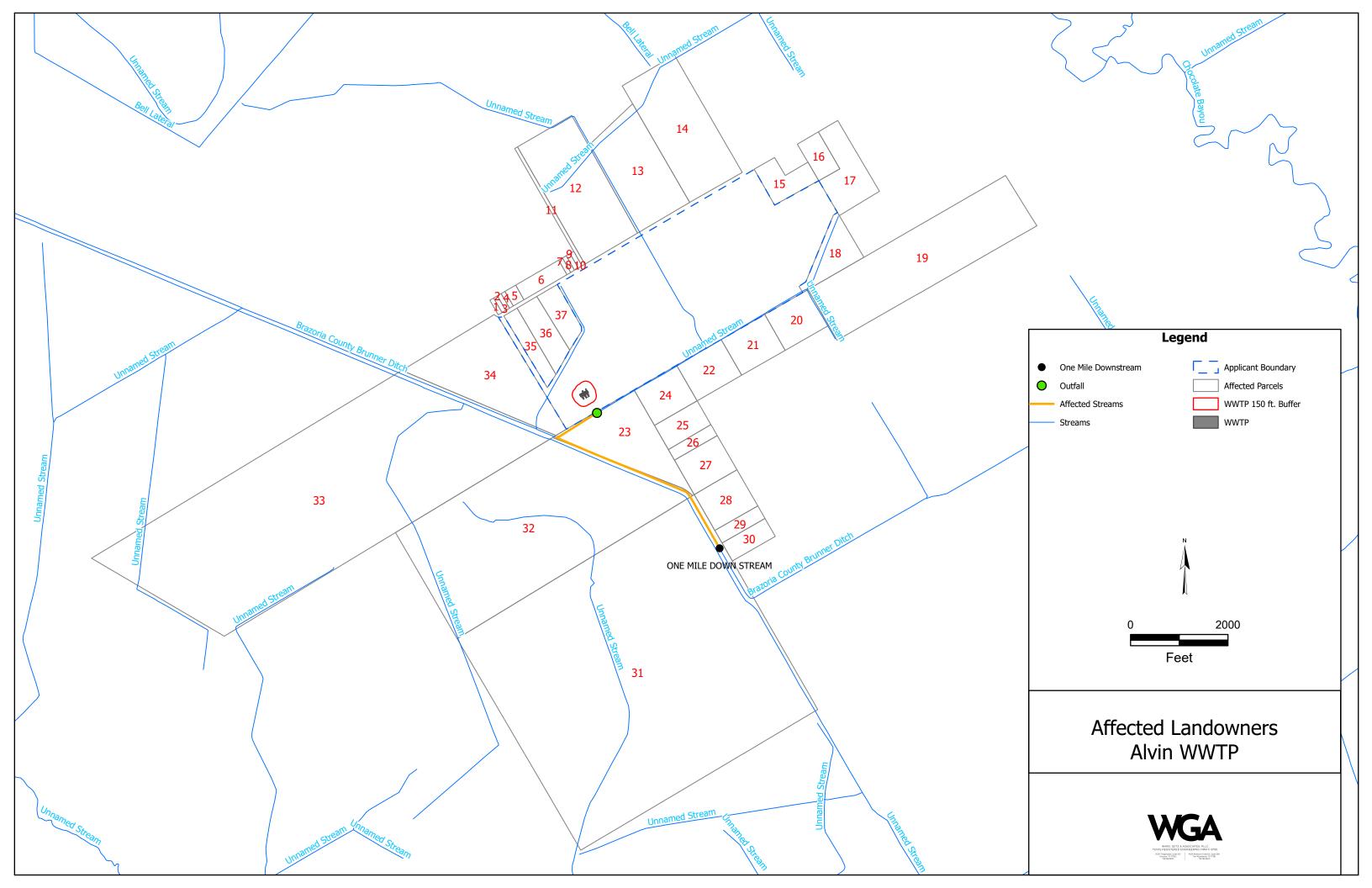
CONTOUR SMOOTHNESS = Medium





7.5-MINUTE TOPO, TX 2025





AFFECTED LANDOWNERS REFERENCE LIST

AFFECTED LANDOWNERS REFERENCE LIST						
REF NO.	OWNER	OWNERS MAILING ADDRESS	PHYSICAL ADDRESS			
1	MILLER KRISTIN & SPENCER GOINS	8907 COUNTY ROAD 511 ROSHARON, TX 77583-7245	8907 COUNTY ROAD 511 ROSHARON, TX 77583			
2	MILLER KRISTIN & SPENCER GOINS	8907 COUNTY ROAD 511 ROSHARON, TX 77583-7245	8907 COUNTY ROAD 511 ROSHARON, TX 77583			
3	GARDNER DEBRA	9302 COUNTY ROAD 172 ROSHARON, TX 77583-7264	9302 COUNTY ROAD 172 ROSHARON, TX 77583			
4	GARDNER DEBRA	9302 COUNTY ROAD 172 ROSHARON, TX 77583-7264	9302 COUNTY ROAD 172 ROSHARON, TX 77583			
5	FISHER LARRY ALLEN & JUDITH KAREN	PO BOX 1107 ROSHARON, TX 77583-1107	9218 COUNTY ROAD 172 ROSHARON, TX 77583			
6	HUL BRIAN NARITH & HONUG	1745 SILVER BEND DR DICKINSON, TX 77539-8384	9206 COUNTY ROAD 172 ROSHARON, TX 77583			
7	GLASS MARTHA H	2511 COPPER FIELDS DR ROSHARON, TX 77583-3273	9102 COUNTY ROAD 172 ROSHARON, TX 77583			
8	GLASS MARTHA H	2511 COPPER FIELDS DR ROSHARON, TX 77583-3273	9102 COUNTY ROAD 172 ROSHARON, TX 77583			
9	GLASS MARTHA H	2511 COPPER FIELDS DR ROSHARON, TX 77583-3273	9102 COUNTY ROAD 172 ROSHARON, TX 77583			
10	RICE JOHNNY DAVID	8815 COUNTY ROAD 511 ROSHARON, TX 77583-7207	8815 COUNTY ROAD 511 ROSHARON, TX 77583			
11	WEISS SUSAN M & ANTHONY P JR	9008 COUNTY ROAD 172 ROSHARON, TX 77583-7350	9008 COUNTY ROAD 172 ROSHARON, TX 77583			
12	TOMLINSON MICHAEL A	7730 COUNTY ROAD 172 ALVIN, TX 77511-4085	COUNTY ROAD 172 ROSHARON, TX 77583			
13	EL RANCHO RV RESORT LLC	1463 COUNTY ROAD 149 ALVIN, TX 77511	COUNTY ROAD 172 ROSHARON, TX 77583			
14	LOZANO CLAUDIA	2718 CYPRESS WOOD LN MANVEL, TX 77578-2040	COUNTY ROAD 172 ROSHARON, TX 77583			
15	STEPHENS ROY LEE & MOLLY E	8001 COUNTY ROAD 172 ALVIN, TX 77511-6259	COUNTY ROAD 172 ROSHARON, TX 77583			
16	STEPHENS ROY LEE & MOLLY E	8001 COUNTY ROAD 172 ALVIN, TX 77511-6259	8001 COUNTY ROAD 172 ALVIN, TX 77511-6259			
17	ORIHUELA JOEL M	7965 COUNTY ROAD 172 ALVIN, TX 77511-6207	COUNTY ROAD 172			
18	HALEWYN DEAN	130 COUNTY ROAD 932 ALVIN, TX 77511-8012	COUNTY ROAD 172 ROSHARON, TX 77583			
19	PETRO-HUNT LLC	2101 CEDAR SPRINGS RD STE 600 DALLAS, TX 75201-1591	COUNTY ROAD 192 ROSHARON, TX 77583			
20	REDDY MALLADI S	21 IVY BEND LN SUGAR LAND, TX 77479	HIGHWAY 35 ROSHARON, TX 77583			
21	REDDY MALLADI S	21 IVY BEND LN SUGAR LAND, TX 77479	HIGHWAY 35 ROSHARON, TX 77583			
22	REDDY MALLADI S	21 IVY BEND LN SUGAR LAND, TX 77479	HIGHWAY 35 ROSHARON, TX 77583			
23	ADAMS D DURWOOD	1523 BLUE WATER DR FREEPORT, TX 77541-9654	8934 COUNTY ROAD 511 ROSHARON, TX 77583			
24	ADAMS D DURWOOD	1523 BLUE WATER DR FREEPORT, TX 77541-9654	HIGHWAY 35 ROSHARON, TX 77583			
25	ADAMS D DURWOOD	1523 BLUE WATER DR FREEPORT, TX 77541-9654	HIGHWAY 35 OFF OF			
26	ADAMS D DURWOOD	1523 BLUE WATER DR FREEPORT, TX 77541-9654	HIGHWAY 35 OFF OF			
27	ADAMS D DURWOOD	1523 BLUE WATER DR FREEPORT, TX 77541-9654	HIGHWAY 35 ROSHARON, TX 77583			
28	ADAMS VAN V ESTATE	5203 COUNTY ROAD 182 ALVIN, TX 77511-6323	HIGHWAY 35 ROSHARON, TX 77583			
29	ADAMS LINN L	5415 COUNTY ROAD 182 ALVIN, TX 77511-8356	HIGHWAY 35			
30	ADAMS LINN L	5415 COUNTY ROAD 182 ALVIN, TX 77511-6323	HIGHWAY 35 ROSHARON, TX 77583			
31	HIGHLAND MANAGEMENT INC	700 MILAM ST HOUSTON, TX 77002-2806	COUNTY ROAD 511 ROSHARON, TX 77583			
32	HIGHLAND MANAGEMENT INC	700 MILAM ST HOUSTON, TX 77002-2806	ROSHARON, TX 77583			
33	HIGHLAND MANAGEMENT INC	700 MILAM ST HOUSTON, TX 77002-2806	COUNTY ROAD 511 ROSHARON, TX 77583			
34	FORGY LEANN W & MICHAEL C	PO BOX 1178 ALVIN, TX 77512-1178	8934 COUNTY ROAD 511 ROSHARON, TX 77583			
35	SURGENER TROY A & CAMERON W LANGFORD	9100 PILGRAM CIR ROSHARON, TX 77583-4822	COUNTY ROAD 172 ROSHARON, TX 77583			
36	STRENGTH AMANDA ANN	1819 OAK CLUSTER CIR PEARLAND, TX 77581-6170	COUNTY ROAD 172 TX 77511			
37	LUCAS JACOB ROY & HALEY BETHANY HOLDER	2250 COUNTY ROAD 206 ALVIN, TX 77511-6654	COUNTY ROAD 172 ROSHARON, TX 77583			

MILLER KRISTIN & SPENCER GOINS	MILLER KRISTIN & SPENCER GOINS	MILLER KRISTIN & SPENCER GOINS
8907 COUNTY RD 511	8907 COUNTY RD 511	8907 COUNTY RD 511
ROSHARON TX 77583-7245	ROSHARON TX 77583-7245	ROSHARON TX 77583-7245
MILLER KRISTIN & SPENCER GOINS	MILLER KRISTIN & SPENCER GOINS	MILLER KRISTIN & SPENCER GOINS
8907 COUNTY RD 511	8907 COUNTY RD 511	8907 COUNTY RD 511
ROSHARON TX 77583-7245	ROSHARON TX 77583-7245	ROSHARON TX 77583-7245
MILLER KRISTIN & SPENCER GOINS	MILLER KRISTIN & SPENCER GOINS	GARNDER DEBRA
8907 COUNTY RD 511	8907 COUNTY RD 511	9302 COUNTY ROAD 172
ROSHARON TX 77583-7245	ROSHARON TX 77583-7245	ROSHARON TX 77583-7264
GARNDER DEBRA	GARNDER DEBRA	GARNDER DEBRA
9302 COUNTY ROAD 172	9302 COUNTY ROAD 172	9302 COUNTY ROAD 172
ROSHARON TX 77583-7264	ROSHARON TX 77583-7264	ROSHARON TX 77583-7264
GARNDER DEBRA	GARNDER DEBRA	GARNDER DEBRA
9302 COUNTY ROAD 172	9302 COUNTY ROAD 172	9302 COUNTY ROAD 172
ROSHARON TX 77583-7264	ROSHARON TX 77583-7264	ROSHARON TX 77583-7264
GARNDER DEBRA 9302 COUNTY ROAD 172 ROSHARON TX 77583-7264	FISHER LARRY ALLEN & JUDITH KARREN PO BOX 1107 ROSHARON TX 77583-1107	FISHER LARRY ALLEN & JUDITH KARREN PO BOX 1107 ROSHARON TX 77583-1107
FISHER LARRY ALLEN & JUDITH	FISHER LARRY ALLEN & JUDITH	FISHER LARRY ALLEN & JUDITH
KARREN	KARREN	KARREN
PO BOX 1107	PO BOX 1107	PO BOX 1107
ROSHARON TX 77583-1107	ROSHARON TX 77583-1107	ROSHARON TX 77583-1107
FISHER LARRY ALLEN & JUDITH KARREN PO BOX 1107 ROSHARON TX 77583-1107	FISHER LARRY ALLEN & JUDITH KARREN PO BOX 1107 ROSHARON TX 77583-1107	HUL BRAIN NARITH & HONUG 1745 SILVER BEND DR DICKINSON TX 77539-8384
HUL BRAIN NARITH & HONUG	HUL BRAIN NARITH & HONUG	HUL BRAIN NARITH & HONUG
1745 SILVER BEND DR	1745 SILVER BEND DR	1745 SILVER BEND DR
DICKINSON TX 77539-8384	DICKINSON TX 77539-8384	DICKINSON TX 77539-8384
GLASS MARTHA H	GLASS MARTHA H	GLASS MARTHA H
2511 COPPER FIELDS DR	2511 COPPER FIELDS DR	2511 COPPER FIELDS DR
ROSHARON TX 77583-3273	ROSHARON TX 77583-3273	ROSHARON TX 77583-3273

GLASS MARTHA H	GLASS MARTHA H	GLASS MARTHA H
2511 COPPER FIELDS DR	2511 COPPER FIELDS DR	2511 COPPER FIELDS DR
ROSHARON TX 77583-3273	ROSHARON TX 77583-3273	ROSHARON TX 77583-3273
GLASS MARTHA H	GLASS MARTHA H	GLASS MARTHA H
2511 COPPER FIELDS DR	2511 COPPER FIELDS DR	2511 COPPER FIELDS DR
ROSHARON TX 77583-3273	ROSHARON TX 77583-3273	ROSHARON TX 77583-3273
GLASS MARTHA H	GLASS MARTHA H	GLASS MARTHA H
2511 COPPER FIELDS DR	2511 COPPER FIELDS DR	2511 COPPER FIELDS DR
ROSHARON TX 77583-3273	ROSHARON TX 77583-3273	ROSHARON TX 77583-3273
RICE JOHNNY DAVID	RICE JOHNNY DAVID	RICE JOHNNY DAVID
8815 COUNTY RD 511	8815 COUNTY RD 511	8815 COUNTY RD 511
ROSHARON TX 77583-3273	ROSHARON TX 77583-3273	ROSHARON TX 77583-3273
RICE JOHNNY DAVID	WEISS SUSAN M ANTHONY P JR	WEISS SUSAN M ANTHONY P JR
8815 COUNTY RD 511	9008 COUNTY ROAD 172	9008 COUNTY ROAD 172
ROSHARON TX 77583-3273	ROSHARON TX 77583-7350	ROSHARON TX 77583-7350
WEISS SUSAN M ANTHONY P JR	WEISS SUSAN M ANTHONY P JR	TOMLINSON MICHAEL A
9008 COUNTY ROAD 172	9008 COUNTY ROAD 172	7730 COUNTY ROAD 172
ROSHARON TX 77583-7350	ROSHARON TX 77583-7350	ALVIN TX 77511-4085
EL RANCHO RV RESORT LLC	EL RANCHO RV RESORT LLC	EL RANCHO RV RESORT LLC
1463 COUNTY ROAD 149	1463 COUNTY ROAD 149	1463 COUNTY ROAD 149
ALVIN TX 77511	ALVIN TX 77511	ALVIN TX 77511
EL RANCHO RV RESORT LLC	LOZANO CLAUDIA	LOZANO CLAUDIA
1463 COUNTY ROAD 149	2718 CYPRESS WOOD LN	2718 CYPRESS WOOD LN
ALVIN TX 77511	MANVEL TX 77578-2040	MANVEL TX 77578-2040
LOZANO CLAUDIA	LOZANO CLAUDIA	STEPHENS ROY LEE & MOLLY E
2718 CYPRESS WOOD LN	2718 CYPRESS WOOD LN	8001 COUNTY ROAD 172
MANVEL TX 77578-2040	MANVEL TX 77578-2040	ALVIN TX 77511-6259
STEPHENS ROY LEE & MOLLY E	STEPHENS ROY LEE & MOLLY E	STEPHENS ROY LEE & MOLLY E
8001 COUNTY ROAD 172	8001 COUNTY ROAD 172	8001 COUNTY ROAD 172
ALVIN TX 77511-6259	ALVIN TX 77511-6259	ALVIN TX 77511-6259

STEPHENS ROY LEE & MOLLY E	STEPHENS ROY LEE & MOLLY E	STEPHENS ROY LEE & MOLLY E
8001 COUNTY ROAD 172	8001 COUNTY ROAD 172	8001 COUNTY ROAD 172
ALVIN TX 77511-6259	ALVIN TX 77511-6259	ALVIN TX 77511-6259
STEPHENS ROY LEE & MOLLY E	ORIHUELA JOEL M	ORIHUELA JOEL M
8001 COUNTY ROAD 172	7965 COUNTY ROAD 172	7965 COUNTY ROAD 172
ALVIN TX 77511-6259	ALVIN TX 77511-6207	ALVIN TX 77511-6207
ORIHUELA JOEL M	ORIHUELA JOEL M	HALEWYN DEAN
7965 COUNTY ROAD 172	7965 COUNTY ROAD 172	130 COUNTY ROAD 932
ALVIN TX 77511-6207	ALVIN TX 77511-6207	ALVIN TX 77511-8012
HALEWYN DEAN	HALEWYN DEAN	HALEWYN DEAN
130 COUNTY ROAD 932	130 COUNTY ROAD 932	130 COUNTY ROAD 932
ALVIN TX 77511-8012	ALVIN TX 77511-8012	ALVIN TX 77511-8012
PETRO-HUNT LLC	PETRO-HUNT LLC	PETRO-HUNT LLC
2101 CEDAR SPRINGS RD	2101 CEDAR SPRINGS RD	2101 CEDAR SPRINGS RD
STE 600	STE 600	STE 600
DALLAS TX 75201-1591	DALLAS TX 75201-1591	DALLAS TX 75201-1591
PETRO-HUNT LLC 2101 CEDAR SPRINGS RD STE 600 DALLAS TX 75201-1591	REDDY MALLADI S 21 IVY BEND LN SUGAR LAND TX 77479	REDDY MALLADI S 21 IVY BEND LN SUGAR LAND TX 77479
REDDY MALLADI S	REDDY MALLADI S	REDDY MALLADI S
21 IVY BEND LN	21 IVY BEND LN	21 IVY BEND LN
SUGAR LAND TX 77479	SUGAR LAND TX 77479	SUGAR LAND TX 77479
REDDY MALLADI S	REDDY MALLADI S	REDDY MALLADI S
21 IVY BEND LN	21 IVY BEND LN	21 IVY BEND LN
SUGAR LAND TX 77479	SUGAR LAND TX 77479	SUGAR LAND TX 77479
REDDY MALLADI S	REDDY MALLADI S	REDDY MALLADI S
21 IVY BEND LN	21 IVY BEND LN	21 IVY BEND LN
SUGAR LAND TX 77479	SUGAR LAND TX 77479	SUGAR LAND TX 77479
REDDY MALLADI S 21 IVY BEND LN SUCAR LAND TY 77470	ADAMS D DURWOOD 1523 BLUE WATER DR	ADAMS D DURWOOD 1523 BLUE WATER DR

FREEPORT TX 77541-9654

FREEPORT TX 77541-9654

SUGAR LAND TX 77479

ADAMS D DURWOOD	ADAMS D DURWOOD	ADAMS D DURWOOD
1523 BLUE WATER DR	1523 BLUE WATER DR	1523 BLUE WATER DR
FREEPORT TX 77541-9654	FREEPORT TX 77541-9654	FREEPORT TX 77541-9654
ADAMS D DURWOOD	ADAMS D DURWOOD	ADAMS D DURWOOD
1523 BLUE WATER DR	1523 BLUE WATER DR	1523 BLUE WATER DR
FREEPORT TX 77541-9654	FREEPORT TX 77541-9654	FREEPORT TX 77541-9654
ADAMS D DURWOOD	ADAMS D DURWOOD	ADAMS D DURWOOD
1523 BLUE WATER DR	1523 BLUE WATER DR	1523 BLUE WATER DR
FREEPORT TX 77541-9654	FREEPORT TX 77541-9654	FREEPORT TX 77541-9654
ADAMS D DURWOOD	ADAMS D DURWOOD	ADAMS D DURWOOD
1523 BLUE WATER DR	1523 BLUE WATER DR	1523 BLUE WATER DR
FREEPORT TX 77541-9654	FREEPORT TX 77541-9654	FREEPORT TX 77541-9654
ADAMS D DURWOOD	ADAMS D DURWOOD	ADAMS D DURWOOD
1523 BLUE WATER DR	1523 BLUE WATER DR	1523 BLUE WATER DR
FREEPORT TX 77541-9654	FREEPORT TX 77541-9654	FREEPORT TX 77541-9654
ADAMS D DURWOOD	ADAMS D DURWOOD	ADAMS D DURWOOD
1523 BLUE WATER DR	1523 BLUE WATER DR	1523 BLUE WATER DR
FREEPORT TX 77541-9654	FREEPORT TX 77541-9654	FREEPORT TX 77541-9654
ADAMS VAN V ESTATE	ADAMS VAN V ESTATE	ADAMS VAN V ESTATE
5203 COUNTY ROAD 182	5203 COUNTY ROAD 182	5203 COUNTY ROAD 182
ALVIN TX 77511-6323	ALVIN TX 77511-6323	ALVIN TX 77511-6323
ADAMS VAN V ESTATE	ADAMS LINN L	ADAMS LINN L
5203 COUNTY ROAD 182	5415 COUNTY ROAD 182	5415 COUNTY ROAD 182
ALVIN TX 77511-6323	ALVIN TX 77511-8356	ALVIN TX 77511-8356
ADAMS LINN L	ADAMS LINN L	ADAMS LINN L
5415 COUNTY ROAD 182	5415 COUNTY ROAD 182	5415 COUNTY ROAD 182
ALVIN TX 77511-8356	ALVIN TX 77511-8356	ALVIN TX 77511-8356
ADAMS LINN L	ADAMS LINN L	ADAMS LINN L
5415 COUNTY ROAD 182	5415 COUNTY ROAD 182	5415 COUNTY ROAD 182
ALVIN TX 77511-8356	ALVIN TX 77511-8356	ALVIN TX 77511-8356

HIGHLAND MANAGEMENT INC	HIGHLAND MANAGEMENT INC	HIGHLAND MANAGEMENT INC
700 MILAM ST	700 MILAM ST	700 MILAM ST
HOUSTON TX 77002-2806	HOUSTON TX 77002-2806	HOUSTON TX 77002-2806
HIGHLAND MANAGEMENT INC	HIGHLAND MANAGEMENT INC	HIGHLAND MANAGEMENT INC
700 MILAM ST	700 MILAM ST	700 MILAM ST
HOUSTON TX 77002-2806	HOUSTON TX 77002-2806	HOUSTON TX 77002-2806
HIGHLAND MANAGEMENT INC	HIGHLAND MANAGEMENT INC	HIGHLAND MANAGEMENT INC
700 MILAM ST	700 MILAM ST	700 MILAM ST
HOUSTON TX 77002-2806	HOUSTON TX 77002-2806	HOUSTON TX 77002-2806
HIGHLAND MANAGEMENT INC	HIGHLAND MANAGEMENT INC	HIGHLAND MANAGEMENT INC
700 MILAM ST	700 MILAM ST	700 MILAM ST
HOUSTON TX 77002-2806	HOUSTON TX 77002-2806	HOUSTON TX 77002-2806
FORGY LEANN W & MICHAEL C	FORGY LEANN W & MICHAEL C	FORGY LEANN W & MICHAEL C
PO BOX 1178	PO BOX 1178	PO BOX 1178
ALVIN TX 77512-1178	ALVIN TX 77512-1178	ALVIN TX 77512-1178
FORGY LEANN W & MICHAEL C PO BOX 1178 ALVIN TX 77512-1178	SURGENER TROY A & CAMERON W LANGFORD 9100 PILGRAM CIR ROSHARON TX 77583-4822	SURGENER TROY A & CAMERON W LANGFORD 9100 PILGRAM CIR ROSHARON TX 77583-4822
SURGENER TROY A & CAMERON W LANGFORD 9100 PILGRAM CIR ROSHARON TX 77583-4822	SURGENER TROY A & CAMERON W LANGFORD 9100 PILGRAM CIR ROSHARON TX 77583-4822	STRENGTH AMANDA ANN 1819 OAK CLUSTER CIR PEARLAND TX 77581-6170
STRENGTH AMANDA ANN	STRENGTH AMANDA ANN	STRENGTH AMANDA ANN
1819 OAK CLUSTER CIR	1819 OAK CLUSTER CIR	1819 OAK CLUSTER CIR
PEARLAND TX 77581-6170	PEARLAND TX 77581-6170	PEARLAND TX 77581-6170
LUCAS JACOB ROY & HALEY	LUCAS JACOB ROY & HALEY	LUCAS JACOB ROY & HALEY
BETHANY HOLDER	BETHANY HOLDER	BETHANY HOLDER
2250 COUNTY ROAD 206	2250 COUNTY ROAD 206	2250 COUNTY ROAD 206
ALVIN TX 77511-6654	ALVIN TX 77511-6654	ALVIN TX 77511-6654
LUCAS JACOB ROY & HALEY BETHANY HOLDER 2250 COUNTY ROAD 206		

ALVIN TX 77511-6654



Treatment Process Description

Treatment Process Description

Phase I:

Interim Phase I will have the capacity to serve an average daily flow of 0.1 MGD and a 2-hr peak flow of 278 GPM. The activated sludge processing plant will utilize an onsite lift station to pump raw influent from the proposed development to the elevated headworks consisting of two (2) manual bar screens. Weir plates in the headworks flow splitting structure will evenly split the screened influent and then gravity flow into each of the two (2) aeration basins. From the aeration basins, mixed liquor will be conveyed into the clarifier. The settled effluent will be returned to the aerated activated sludge basins or wasted to the two (2) aerated digester basins. The supernatant from the clarifier will flow over the v-notch weir, into the effluent drop box, and into one (1) aerated chlorine contact basin where flow will be conveyed through baffle walls to facilitate mixing and maintain a minimum contact time of 20-min. Disinfected effluent is then conveyed to the v-notch weir and drop box where it will gravity flow into the sampling manhole where effluent constituents will be sampled and tested. From the sampling manhole, disinfected effluent will gravity flow to the outfall into an unnamed Brazoria County Drainage District 5 Ditch.

Phase II:

Interim Phase II will have the capacity to serve an average daily flow of 0.35 MGD and a 2-hr peak flow of 972.22 GPM. The activated sludge processing plant will utilize an onsite lift station to pump raw influent from the development to the elevated headworks consisting of two (2) manual bar screens. Weir plates in the headworks flow splitting structure will evenly split the screened influent and then gravity flow into each of the eight (8) aeration basins. From the aeration basins, mixed liquor will be conveyed into two (2) clarifiers. The settled effluent will be returned to the aerated activated sludge basins or wasted to the eight (8) aerated digester basins. The supernatant from the clarifiers will flow over the v-notch weir, into the effluent drop box, and into the two (2) aerated chlorine contact basins where flow will be conveyed through baffle walls to facilitate mixing and maintain a minimum contact time of 20-min. Disinfected effluent is then conveyed to the v-notch weir and drop box where it will gravity flow into the sampling manhole where effluent constituents will be sampled and tested for each basin. From each of the two (2) sampling manholes, disinfected effluent will gravity flow to a common manhole to combine flows from each chlorine contact basin before outfalling into an unnamed Brazoria County Drainage District 5 Ditch.

Phase III:

Interim Phase III will have the capacity to serve an average daily flow of 0.60 MGD and a 2-hr peak flow of 1,667 GPM. The activated sludge processing plant will utilize an onsite lift station to pump raw influent from the development to the elevated headworks consisting of two (2) manual bar screens. Weir plates in the headworks flow splitting structure will evenly split the screened influent and then gravity flow into each of the twelve (12) aeration basins. From the aeration basins, mixed liquor will be conveyed into three (3) clarifiers. The settled effluent will be returned to the aerated activated sludge basins or wasted to the twelve (12) aerated digester basins. The supernatant from the clarifiers will flow over the v-notch weir, into the effluent drop box, and into the three (3) aerated chlorine contact basins where flow

will be conveyed through baffle walls to facilitate mixing and maintain a minimum contact time of 20-min. Disinfected effluent is then conveyed to the v-notch weir and drop box where it will gravity flow into the sampling manhole where effluent constituents will be sampled and tested for each basin. From each of the three (3) sampling manholes, disinfected effluent will gravity flow to a common manhole to combine flows from each chlorine contact basin before out falling into an unnamed Brazoria County Drainage District 5 Ditch.

Appendix J

Treatment Unit Descriptions

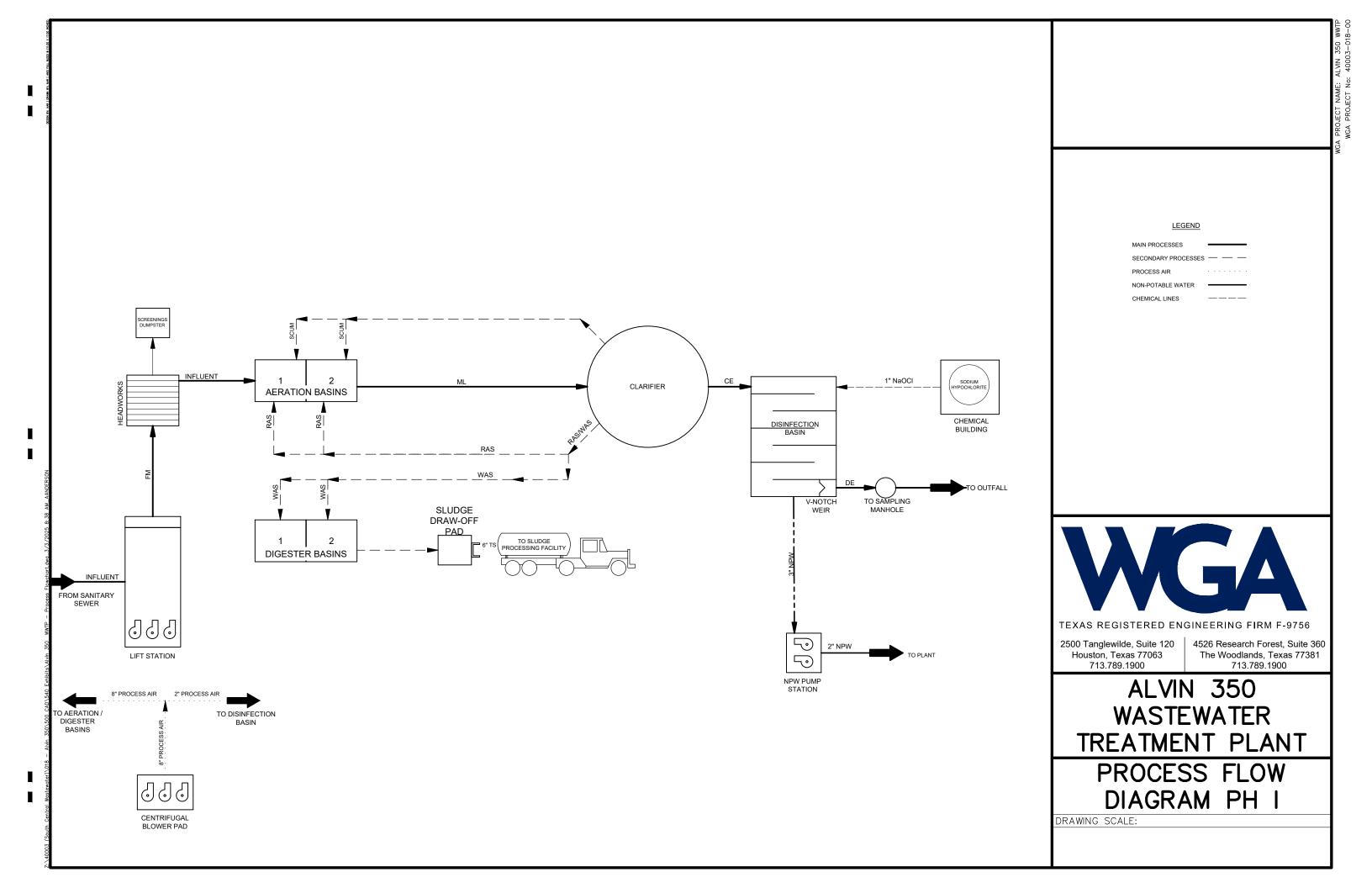
Phase I				
Treatment Unit	L x W x D x SWD	Total Volume (ft³)		
Aeration Basin 1	30'x12'x12'x10.3'	3,641		
Aeration Basin 2	30'x12'x12'x10.3'	3,641		
Total Ph I Aeratio	n Volume	7,283		
Digester Basin 1	22'x12'x12'x10.5'	2,772		
Digester Basin 2	22'x12'x12'x10.5'	2,772		
Total Ph I Digeste	er Volume	5,544		
Chlorine Contact Basin 1	18'x12'x12'x9.5'	1,520		
Total Ph I Disinfection	Basin Volume	1,520		
Treatment Unit	Diameter (ft)	Surface Area (ft²)	SWD (ft)	Total Volume (ft³)
Clarifier 1	34	907.9	10.0	9079.2
	Total Ph I	907.9	Total Ph I	9079.2
	Clarifier Surface		Clarifier	
	Area		Volume	

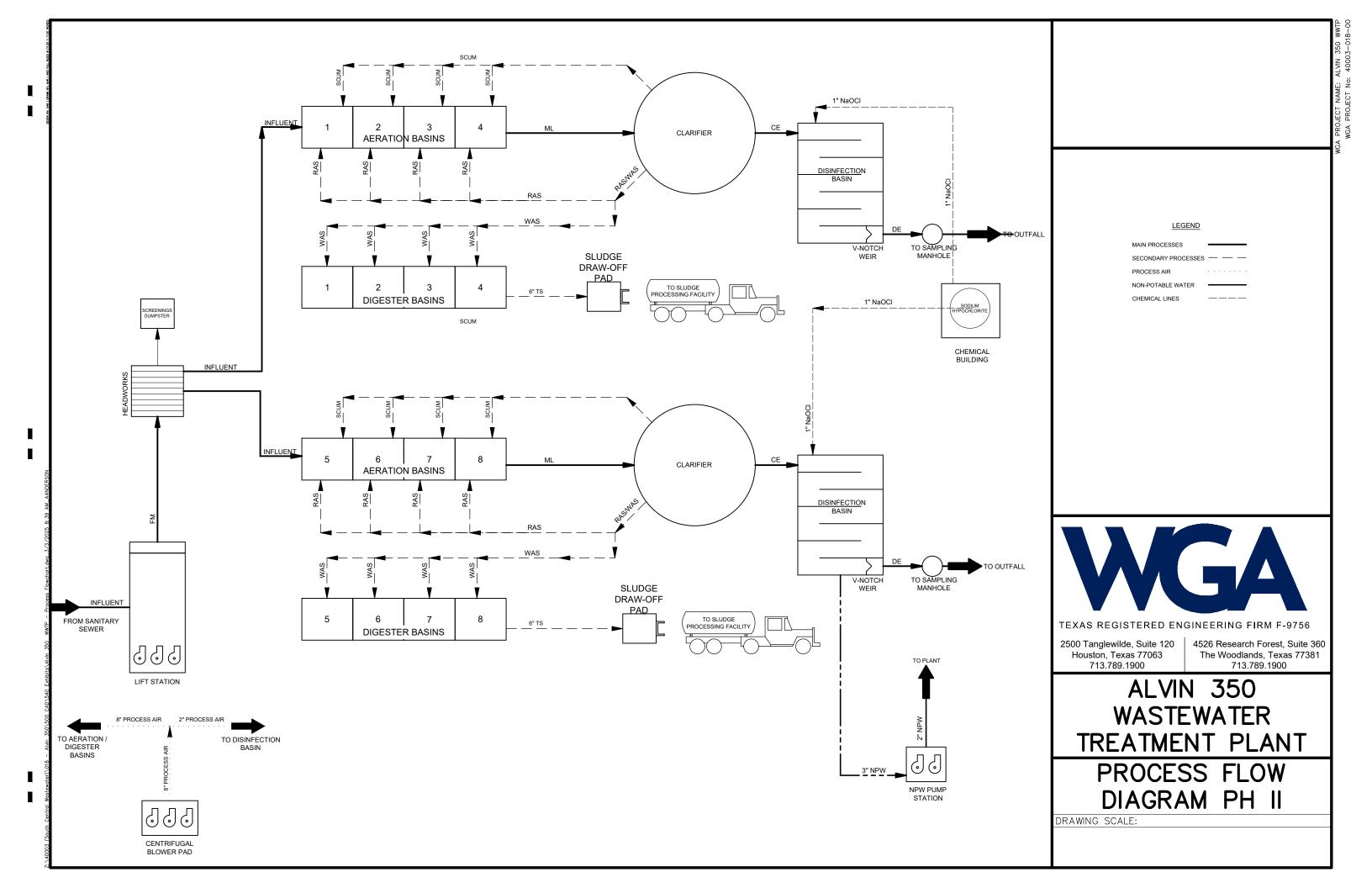
Phase II				
Treatment Unit	LxWxDxSWD	Total Volume (ft³)		
Aeration Basin 1	30'x12'x12'x10.3'	3,641		
Aeration Basin 2	30'x12'x12'x10.3'	3,641		
Aeration Basin 3	30'x12'x12'x10.3'	3,641		
Aeration Basin 4	30'x12'x12'x10.3'	3,641		
Aeration Basin 5	30'x12'x12'x10.3'	3,641		
Aeration Basin 6	30'x12'x12'x10.3'	3,641		
Aeration Basin 7	30'x12'x12'x10.3'	3,641		
Aeration Basin 8	30'x12'x12'x10.3'	3,641		
Total Ph II Aerati	on Volume	29,128		
Digester Basin 1	22'x12'x12'x10.5'	2,772		
Digester Basin 2	22'x12'x12'x10.5'	2,772		
Digester Basin 3	22'x12'x12'x10.5'	2,772		
Digester Basin 4	22'x12'x12'x10.5'	2,772		
Digester Basin 5	22'x12'x12'x10.5'	2,772		
Digester Basin 6	22'x12'x12'x10.5'	2,772		
Digester Basin 7	22'x12'x12'x10.5'	2,772		
Digester Basin 8	22'x12'x12'x10.5'	2,772		
Total Ph II Diges	ter Volume	22,176		
Chlorine Contact Basin 1	18'x12'x12'x9'	1,520		
Chlorine Contact Basin 2	18'x12'x12'x9'	1,520		
Total Ph II Disinfectio	n Basin Volume	3,040		
Treatment Unit	Diameter (ft)	Surface Area (ft²)	SWD (ft)	Total Volume (ft³)
Clarifier 1	34	907.9	10.0	9,079.2
Clarifier 2	34	907.9	10.0	9,079.2
	Total Ph II Clarifier Surface Area	1,815.8	Total Ph II Clarifier Volume	18,158.4

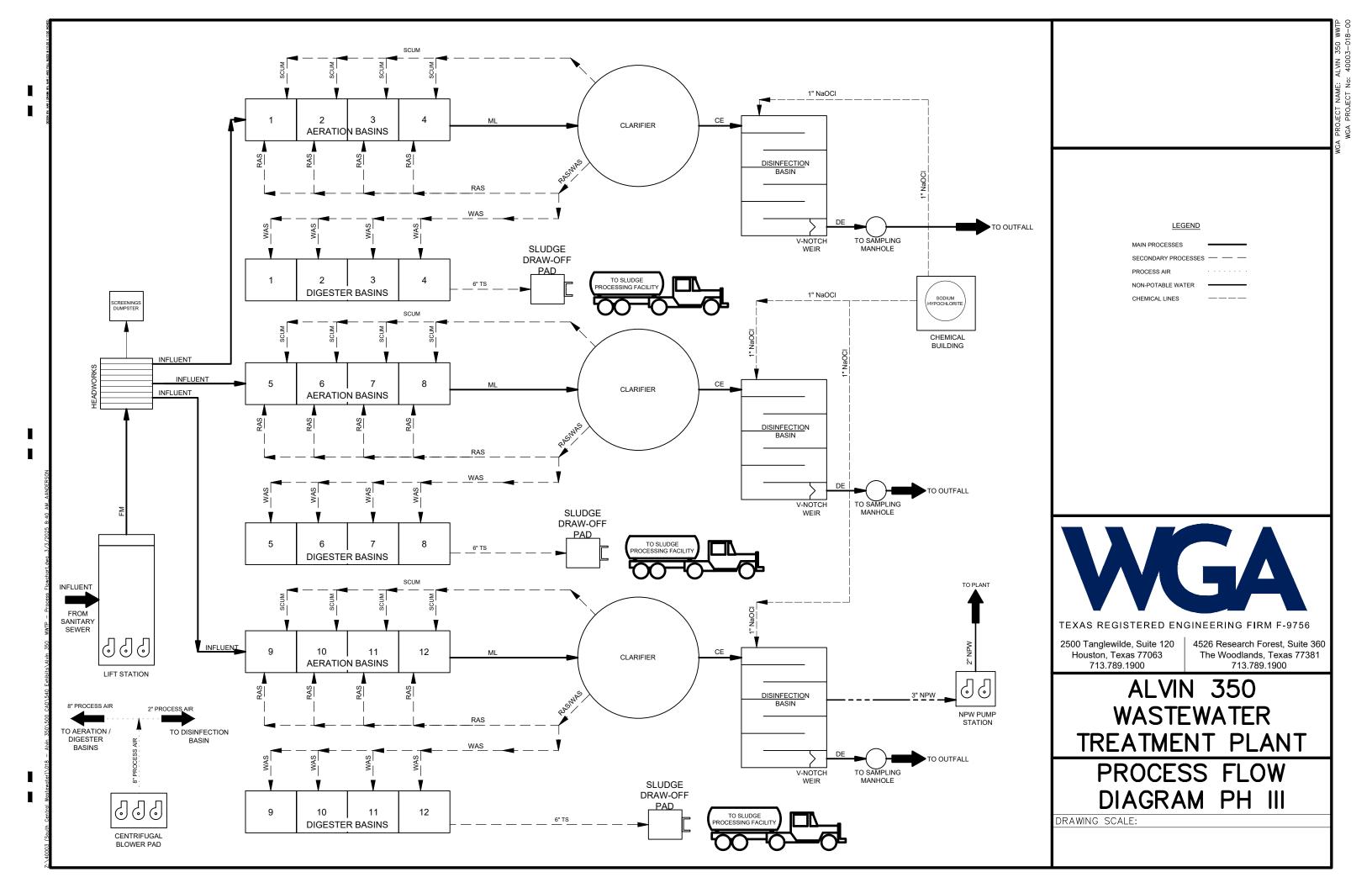
Phase III				
Treatment Unit	LxWxDxSWD	Total Volume (ft³)		
Aeration Basin 1	30'x12'x12'x10.3'	3,641		
Aeration Basin 2	30'x12'x12'x10.3'	3,641		
Aeration Basin 3	30'x12'x12'x10.3'	3,641		
Aeration Basin 4	30'x12'x12'x10.3'	3,641		
Aeration Basin 5	30'x12'x12'x10.3'	3,641		
Aeration Basin 6	30'x12'x12'x10.3'	3,641		
Aeration Basin 7	30'x12'x12'x10.3'	3,641		
Aeration Basin 8	30'x12'x12'x10.3'	3,641		
Aeration Basin 9	30'x12'x12'x10.3'	3,641		
Aeration Basin 10	30'x12'x12'x10.3'	3,641		
Aeration Basin 11	30'x12'x12'x10.3'	3,641		
Aeration Basin 12	30'x12'x12'x10.3'	3,641		
Total Ph III Aerat	ion Volume	43,692		
Digester Basin 1	22'x12'x12'x10.5'	2,772		
Digester Basin 2	22'x12'x12'x10.5'	2,772		
Digester Basin 3	22'x12'x12'x10.5'	2,772		
Digester Basin 4	22'x12'x12'x10.5'	2,772		
Digester Basin 5	22'x12'x12'x10.5'	2,772		
Digester Basin 6	22'x12'x12'x10.5'	2,772		
Digester Basin 7	22'x12'x12'x10.5'	2,772		
Digester Basin 8	22'x12'x12'x10.5'	2,772		
Digester Basin 9	22'x12'x12'x10.5'	2,772		
Digester Basin 10	22'x12'x12'x10.5'	2,772		
Digester Basin 11	22'x12'x12'x10.5'	2,772		
Digester Basin 12	22'x12'x12'x10.5'	2,772		
Total Ph III Diges	ter Volume	33,264		
Chlorine Contact Basin 1	18'x12'x12'x9'	1,944		
Chlorine Contact Basin 2	18'x12'x12'x9'	1,944		
Chlorine Contact Basin 2	18'x12'x12'x9'	1,944		
Total Ph III Disinfection Basin Volume		5,832		
Treatment Unit	Diameter (ft)	Surface Area (ft²)	SWD (ft)	Total Volume (ft³)
Clarifier 1	34	907.9	10.0	9,079.2
Clarifier 2	34	907.9	10.0	9,079.2
Clarifier 3	34	907.9	10.0	9,079.2
	Total Ph III Clarifier Surface Area	2,723.7	Total Ph III Clarifier Volume	27,237.6

Appendix K

Flow Diagram

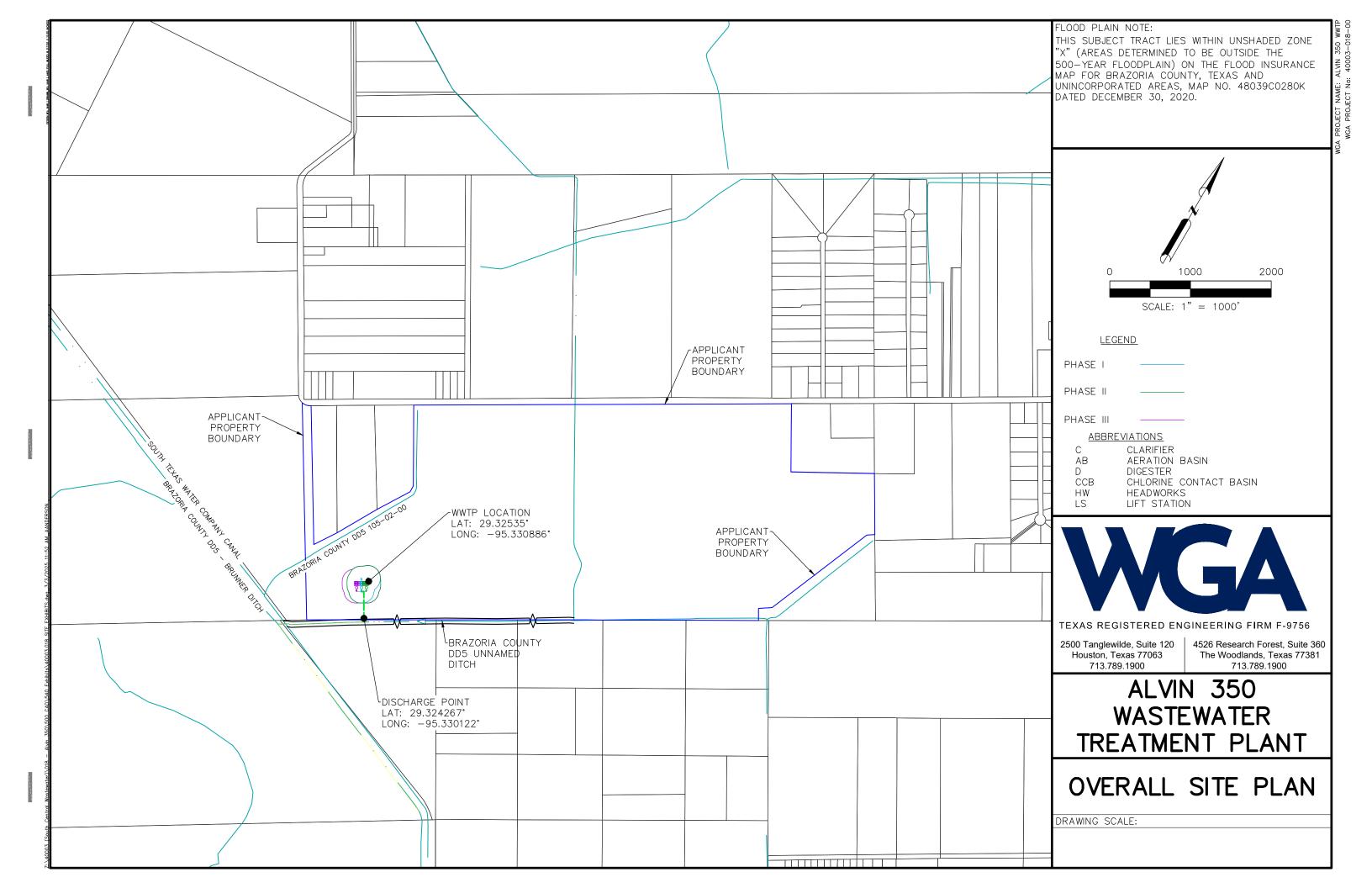


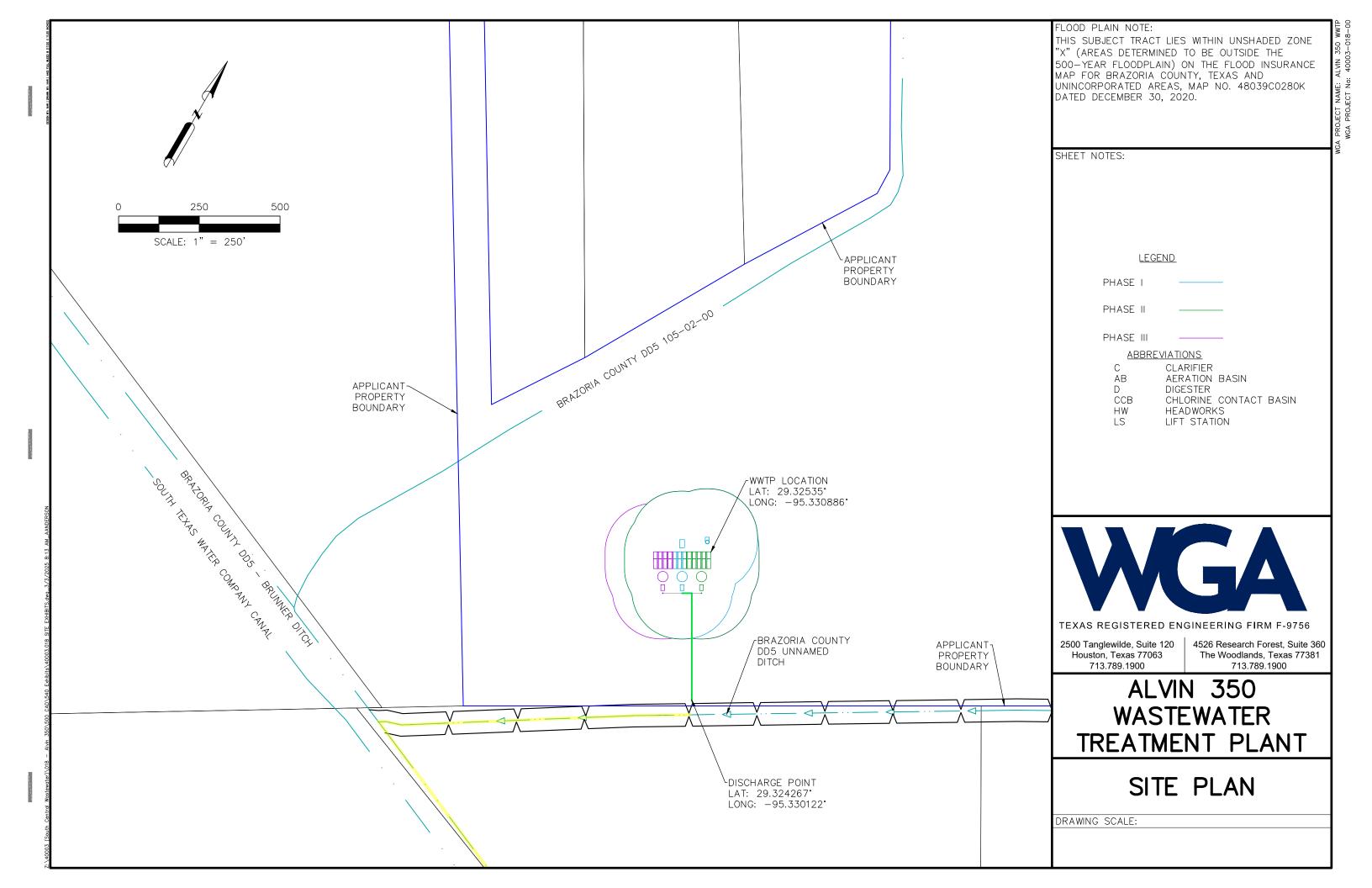




Appendix L

Site Drawing







WWTP Regionalization - Service Request Letters

LETTER OF TRANSMITTAL



2500 Tanglewilde, 9 Houston, Texas 770		Regular USPS X Certified USPS	FedEx Overnight	Courier from WGA Courier to WGA	End of Day Expedited
				Date:	3/3/2025
Project No: 40	003-018-00				
То:					
HARRISON WILLI	IAMS				
SAVANNAH PLAI	TU NOITATI	ILITY COMPANY,	INC.		
P.O. BOX 690521 HOUSTON, TX 77	7269				
Attn:					
Phone Number:					
346-771-5311	•				
Email Address: aa	anderson@w	ga-llp.com			
Delivery Instruction	ons:				
Re: South Centra	l Water Com	pany – Request f	or Service - Ap	oplication for New TI	PDES Permit
0	Danasiation				
Quantity	Description	6 ' ' '			
1	Request for	Service Letter			

Audrey Anderson, Project Engineer Ward, Getz & Associates, PLLC



March 3, 2025

Harrison Williams Savannah Plantation Utility Company, Inc P.O. Box 690521 Houston, Texas 77269

SUBJECT: South Central Water Company (CN602602179)

Alvin 350 Wastewater Treatment Plant Application for New TPDES Permit

Greetings TCEQ Wastewater Discharge Permit Holder,

South Central Water Company (602602179) is preparing an application for a new Texas Pollutant Discharge Elimination System (TPDES) wastewater discharge permit. This wastewater treatment facility will serve a proposed subdivision which will consist of an ultimate buildout of 2,400 single family residences. We are in the process of applying for an authorized flow of 0.100 million gallons per day (MGD) in Phase I. Ultimate Phase III will require a capacity of 0.600 MGD.

We are required to contact all existing TPDES permittees within a three-mile radius of the proposed service area of the Alvin 350 WWTP location to request service. Do you have the capacity and are you willing to provide service for the requested 0.100 MGD? If you do not have the current capacity, but are willing to expand your facility to provide service, will you be able to provide service within the needed time frame? If you are willing to provide service, please provide the estimated costs and service rates in a written response.

Please provide a response indicating if 0.10 MGD of wastewater treatment capacity in your facility is available and, if so, under what terms. A written reply on a copy of this letter will be adequate. You may email your response to aanderson@wga-llp.com. Please feel free to call me at 346-771-5311.

Thank you for your participation in these efforts.

Sincerely,

Audrey Anderson Project Engineer

Ward, Getz & Associates, LLP



Date of Reply:		
Does Savannah Plantation Utilit 0.100 MGD (circle one)? YES or	ty Company have the capacity availal NO	ble to accommodate
If existing facilities are not adeq	quate, is an expansion feasible? YES c	or NO
If yes to EITHER question, pleas	se provide in writing the terms for ser	rvice.
Name and Title:		
Signature:	Date [.]	



A shipment from Maren Evans is on its way

From no-reply@pb.com <no-reply@pb.com>

Date Mon 3/3/2025 12:50 PM

To Audrey Anderson <aanderson@wga-llp.com>



<u>PitneyShip™ Portfolio</u>



Shipment Created - USPS2220865973303623

This shipment has been sent using PitneyShip™ Portfolio

TRACKING NUMBER

ESTIMATED DELIVERY

USPS

9414809898643068061422

AAnderson - 40003-018-00

Shipped on 2025-03-03

Carrier USPS

HARRISON WILLIAMS

SAVANNAH PLANTATION UTILITY COMPANY

Ship To PO BOX 690521

HOUSTON, TX, 77269-0521

US

Service First-Class Mail®

Signature Required Yes

For more information, click on the tracking number above.

It may take 12-24 hours before tracking information is available.

Pitney Bowes

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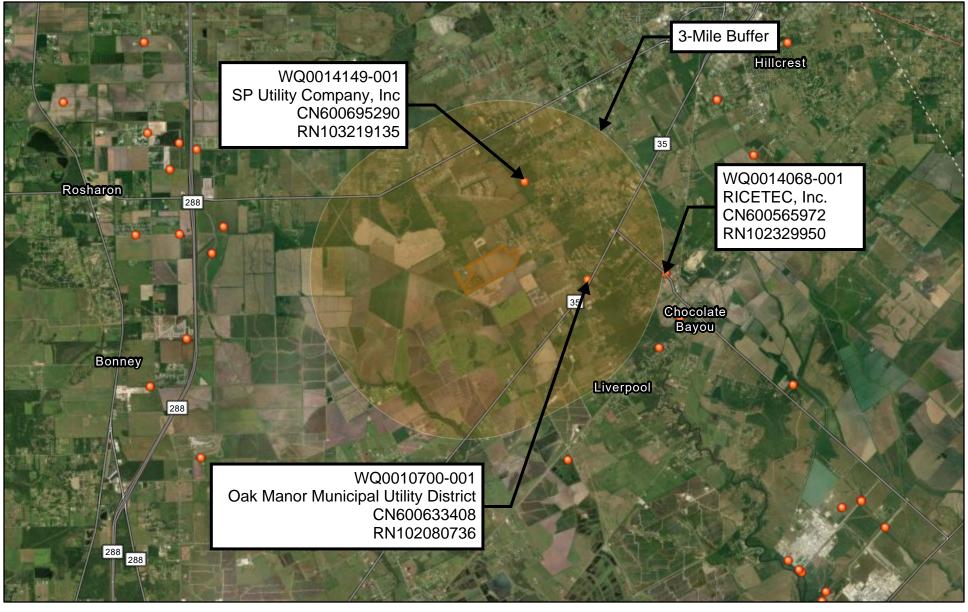
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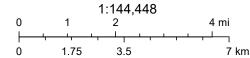
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Wastewater Outfalls in Texas (TCEQ) Custom Print



2/13/2025, 3:31:00 PM

Wastewater Outfalls



City of Alvin, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA,

LETTER OF TRANSMITTAL



2500 Tanglewilde, S Houston, Texas 770		Regular USPS X Certified USPS	FedEx Overnight	Courier from WGA Courier to WGA	End of Day Expedited		
				Date:	3/3/2025		
Project No: 40	003-018-00						
То:							
MICHAEL D. LARS	SEN, P.E., PRE	SIDENT					
OAK MANOR MUI	NICIPAL UTIL	ITY DISTRICT					
95 OAK TRAIL ALVIN, TX 77511	95 OAK TRAIL						
Attn:							
Phone Number:							
346-771-5311							
Email Address: <u>aa</u>	anderson@wg	ga-llp.com					
Delivery Instructions:							
Re: South Central Water Company – Request for Service – Application for New TPDES Permit							
Quantity	Description						
1	Request for	Service Letter					

Audrey Anderson, Project Engineer Ward, Getz & Associates, PLLC



March 3, 2025

Michael D. Larsen, P.E., President Oak Manor Municipal Utility District 95 Oak Trail Alvin, Texas 77511

SUBJECT: South Central Water Company (CN602602179)

Alvin 350 Wastewater Treatment Plant Application for New TPDES Permit

Greetings TCEQ Wastewater Discharge Permit Holder,

South Central Water Company (602602179) is preparing an application for a new Texas Pollutant Discharge Elimination System (TPDES) wastewater discharge permit. This wastewater treatment facility will serve a proposed subdivision which will consist of an ultimate buildout of 2,400 single family residences. We are in the process of applying for an authorized flow of 0.100 million gallons per day (MGD) in Phase I. Ultimate Phase III will require a capacity of 0.600 MGD.

We are required to contact all existing TPDES permittees within a three-mile radius of the proposed service area of the Alvin 350 WWTP location to request service. Do you have the capacity and are you willing to provide service for the requested 0.100 MGD? If you do not have the current capacity, but are willing to expand your facility to provide service, will you be able to provide service within the needed time frame? If you are willing to provide service, please provide the estimated costs and service rates in a written response.

Please provide a response indicating if 0.10 MGD of wastewater treatment capacity in your facility is available and, if so, under what terms. A written reply on a copy of this letter will be adequate. You may email your response to aanderson@wga-llp.com. Please feel free to call me at 346-771-5311.

Thank you for your participation in these efforts.

Sincerely,

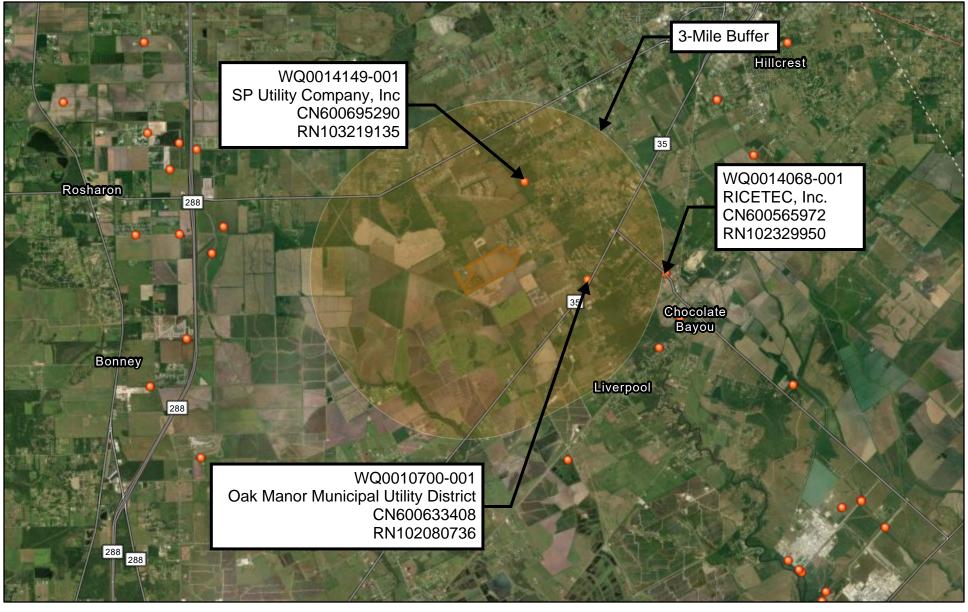
Audrey Anderson Project Engineer

Ward, Getz & Associates, LLP



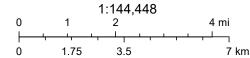
Date of Reply:	_	
Does Oak Manor Municipal L MGD (circle one)? YES or NO	Utility District have the capacity available	able to accommodate 0.100
If existing facilities are not ac	dequate, is an expansion feasible? YE	ES or NO
If yes to EITHER question, ple	ease provide in writing the terms for	service.
Name and Title:		
Signature:	Date:	

Wastewater Outfalls in Texas (TCEQ) Custom Print



2/13/2025, 3:31:00 PM

Wastewater Outfalls



City of Alvin, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA,



Date Produced: 03/19/2025

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Signature of Recipient:

- Haran

Address of Recipient:

195 Oak TRU

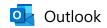
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Sincerely, United States Postal Service

The customer reference number shown below is not validated or endorsed by the United States Postal Service. It is solely for customer use.

Customer Reference Number:

AAnderson - 40003-018-00



Request for Service Letter for South Central Water Company

From Michael Larsen <mdlarsen86@gmail.com>

Date Thu 4/10/2025 6:16 PM

To Audrey Anderson <aanderson@wga-llp.com>

Cc Michael Helfrich <mhelfrich@lja.com>; Chris Richardson <Chris@srlegal.com>

Dear Ms. Anderson,

I received your letter dated Mar 3, 2025. Would it be possible for you to send it to me electronically? Can I respond with an email? If not, I will fill out your form and mail it to you.

The answer is we do not have the capacity for 0.1 MGD additional load. Expansion is not feasible either.

I apologize for my delayed response.

Best Regards,

Michael D. Larsen, PE President Oak Manor Municipal Utilities District

281 460-5729

Virus-free.www.avast.com		

EXTERNAL EMAIL: Do not click any links or open any attachments unless you trust the sender and know the content is safe.

LETTER OF TRANSMITTAL



2500 Tanglewilde, Suite 120 Houston, Texas 77063	Regular USPS X Certified USPS	FedEx Overnight	Courier from WGA Courier to WGA	End of Day Expedited
			Date:	3/3/2025
Project No: 40003-018-00				
То:				
ANDREW MARTINEZ, SAFETY	/ & FACILITIES M	ANAGER		
RICETEC, INC.				
P.O. BOX 1305 ALVIN, TX 77512				
Attn:				
Phone Number:				
346-771-5311				
Email Address: <u>aanderson@w</u>	ga-llp.com			
Delivery Instructions:				
Re: South Central Water Company – Request for Service – Application for New TPDES Permit				
Quantity Description				
1 Request for	Service Letter			

Audrey Anderson, Project Engineer Ward, Getz & Associates, PLLC



March 3, 2025

Andrew Martinez, Safety & Facilities Manager Ricetec, Inc. P.O. Box 1305 Alvin, Texas 77512

SUBJECT: South Central Water Company (CN602602179)

Alvin 350 Wastewater Treatment Plant Application for New TPDES Permit

Greetings TCEQ Wastewater Discharge Permit Holder,

South Central Water Company (602602179) is preparing an application for a new Texas Pollutant Discharge Elimination System (TPDES) wastewater discharge permit. This wastewater treatment facility will serve a proposed subdivision which will consist of an ultimate buildout of 2,400 single family residences. We are in the process of applying for an authorized flow of 0.100 million gallons per day (MGD) in Phase I. Ultimate Phase III will require a capacity of 0.600 MGD.

We are required to contact all existing TPDES permittees within a three-mile radius of the proposed service area of the Alvin 350 WWTP location to request service. Do you have the capacity and are you willing to provide service for the requested 0.100 MGD? If you do not have the current capacity, but are willing to expand your facility to provide service, will you be able to provide service within the needed time frame? If you are willing to provide service, please provide the estimated costs and service rates in a written response.

Please provide a response indicating if 0.10 MGD of wastewater treatment capacity in your facility is available and, if so, under what terms. A written reply on a copy of this letter will be adequate. You may email your response to aanderson@wga-llp.com. Please feel free to call me at 346-771-5311.

Thank you for your participation in these efforts.

Sincerely,

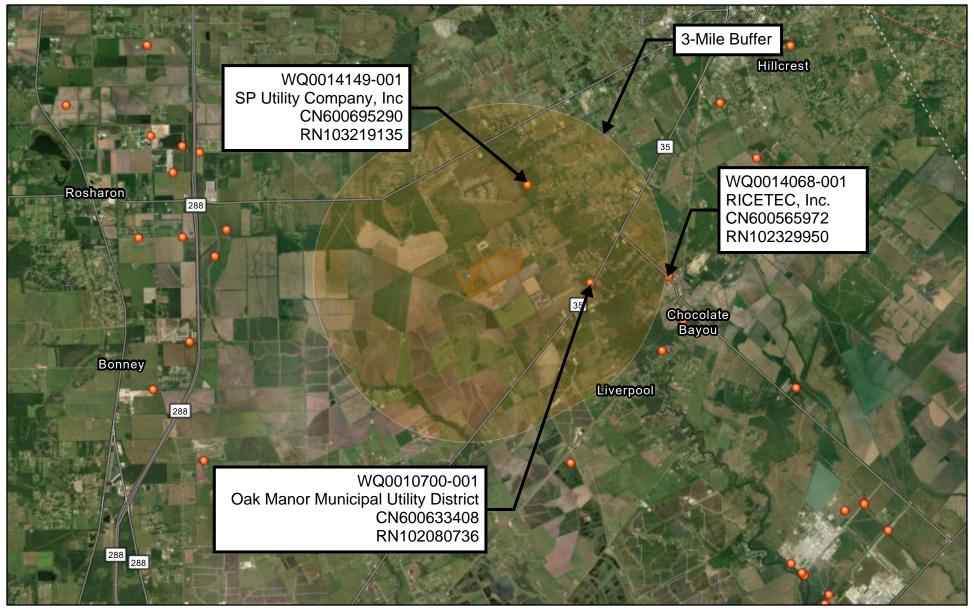
Audrey Anderson Project Engineer

Ward, Getz & Associates, LLP



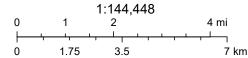
Date of Reply:
Ooes Ricetec, Inc have the capacity available to accommodate 0.100 MGD (circle one)?
'ES or NO
existing facilities are not adequate, is an expansion feasible? YES or NO
f yes to EITHER question, please provide in writing the terms for service.
Name and Title:
Signature [,] Date [,]

Wastewater Outfalls in Texas (TCEQ) Custom Print



2/13/2025, 3:31:00 PM

Wastewater Outfalls



City of Alvin, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA,

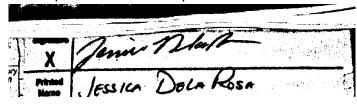


Date Produced: 03/07/2025

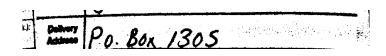
Pitney Bowes:

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Signature of Recipient:



Address of Recipient:



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Sincerely, United States Postal Service

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Appendix N

Design Calculations



PROJECT NAME: Alvin 350 WWTP Ph I DATE: 4/16/2025

CLIENT: South Central Wastewater BY: AA
PROJECT NUMBER: 40003-018 QC: ENW

WASTEWATER AND PLANT CHARACTERIZATION

PHASE I

Flow Rates										
А	Annual Average			0.10	MGD	69	GPM	0.16	CFS	
Р	eak Month	Factor	1.5	0.15	MGD	104	GPM	0.23	CFS	
Р	eak 2-Hour	Factor	4	0.40	MGD	278	GPM	0.62	CFS	
N	Лin. Month	Factor	0.5	0.05	MGD	35	GPM	0.08	CFS	

Raw Wastewater Concentrations	Avg.	2-Hour Peak	Peak Month	Min. Month	
BOD (total)	300	100	250	200	mg/L Assumed
BOD (soluble)	180				mg/L
TSS	300				mg/L
VSS	240				mg/L
TKN	50				mg/L
NH3-N	40				mg/L
TP					mg/L

Effluent Requirements

BOD	10	mg/L
TSS	15	mg/L
NH3-N	2	mg/L
TP		mg/L
DO		mg/L

Select Treatment Processes from the List

Preliminary Treatment Coarse Screening

Primary Treatment None

Biological Treatment Conventional Activated Sludge w/ Nitrification, @ Min.

Solids Treatment Aerobic Digestion + Dewatering



WASTEWATER CHARACTERIST	TICS TO THE TIME T	
INFLUENT MASS LOADING		
BOD5 (AVG)	250.2	lbs/day
BOD5 (2-HR PEAK)	333.6	lbs/day
BOD5 (PEAK MONTH)	312.8	lbs/day
BOD5 (MIN MONTH)	83.4	lbs/day
TSS	250.2	lbs/day
NH ₃	33.4	lbs/day
TKN	41.7	lbs/day
EFFLUENT COMPOSITION (ASSUMED FOR CONSERVATIVE DESIGN)		
BOD5	10.0	mg/L
TSS	15.0	mg/L
NH ₃	3.0	mg/L
TKN	0.0	mg/L

AERATION BASIN		
Conventional Activated Sludge w/ Nitrification, @ Min. Temp > 15°C		
Description	Value	Unit
AERATION BASIN CALCULATIONS - TCEQ TRADITIONAL DESIGN - TCEQ 217, SUBCHAPTER F		
Aeration Basin Maximum Organic Loading	35.0	lbs/day/1000 ft ³
Minimum Number of Basins (For Flow < 0.4 MGD)	2.0	EA
BOD Removal Credit for Preliminary and Primary Treatment (Optional)	0%	
Total Peak BOD Loading (Based on Design Flow)	250	lbs/day
Total Aeration Basin Volume Required	7,149	ft ³

AERATION BASIN SIZING		
Proposed Number of Basins	2.0	
Side Water Depth of Basins	10.3	ft
Freeboard	1.5	ft
Total Depth of Basin	12.0	ft
Diffuser Submergence	9.8	ft
Required Volume of Each Aeration Basin	3,574	ft³
Surface Area of Each Basin	346	ft²
Width to Length Ratio (1:X)	2.5	
Required Width of Each Basin	12.0	ft
Required Length of Each Basin	30	ft
Proposed Volume of Each Aeration Basin	3,641	ft³
Proposed Total Aeration Basin Volume	7,283	ft ³



WASTEWATER CHARACTERIS	STICS	
Description	Value	Unit
Influent BOD₅	300.0	mg/L
Influent TSS	300.0	mg/L
Influent NH₃	40.0	mg/L
Daily Flow (Q _{AVE})	100,000.0	gpd
Daily Flow (Q _{AVE})	69.4	gpm
Daily Flow (Q _{AVE})	0.155	cfs
2-hr Peak Flow (Q _{PK})	400,000	gpd
2-hr Peak Flow (QPK)	277.8	gpm
2-hr Peak Flow (Q _{PK})	0.620	cfs
NH ₃	33.4	lbs/day
BOD₅	250.8	lbs/day
TSS	250.8	lbs/day

Description		
Conventional Activated Sludge w/ Nitrification, @ Min. Temp > 15°C		
SECONDARY CLARIFIER		
Description	Value	Unit
Number of Clarifiers	1.0	Ea
Average Flow Per Clarifier	0.10	MGD
Peak Flow Per Clarifier	0.40	MGD
Clarifier Shape (Round, Octagonal, Square)	Round	
Design Weir Shape (Round, Segmented)	Round	
Design Number of Segments (Leave Blank If Designed Round)		

SURFACE AREA DESIGN - TCEQ 217.154 (c)(1)			
TCEQ Max Surface Loading (Q _{AVG}) TCEQ 317.4 (d)(5)	700	gal/day/ft ²	
TCEQ Max Surface Loading (QPK) TCEQ 217.154 (c)(1)	1,200	gal/day/ft ²	
Design Diameter	34.0	ft	
Surface Area Required at Peak Flow Per Clarifier	333.3	ft ²	
Surface Area Required for All Clarifiers at Peak Flow	333.3	ft ²	
Proposed Surface Area Per Clarifier	907.9	ft ²	
Total Proposed Surface Area for All Clarifiers	907.9	ft ²	
Actual Design Surface Loading at Design Flow (Q _{AVE})	110.1	gal/day/ft ²	
Actual Design Surface Loading at Peak Flow (Q _{PK})	440.6	gal/day/ft ²	

SIDE WATER DEPTH - TCEQ 217.152 (g)		
Side Water Depth For Clarifier Surface Area Greater Than 300 sqft.	10	ft
Side Water Depth For Clarifier Surface Area Equal To Or Less Than 300 sqft.	8	ft
Controlling Minimum Depth Requirement	10.0	ft
Proposed Clarifier Side Water Depth (Not Total Depth)	10.0	ft
Design Floor Slope (1:X)	12.0	
Design Cone Depth (Including 1:12, sloped bottom)	1.4	ft
Free Board (Minimum 1 feet)	1.0	ft
Total Depth of Clarifier	12.417	ft
Design Total Depth of Clarifier	12.5	ft



WASTEWATER CHARACTERISTICS		
Description	Value	Unit
HYDRAULIC DETENTION TIME - TCEQ 217.154 (c)(1)		
TCEQ Min Detention Time (Q _{AVE})	2.6	hours
TCEQ Min Detention Time (QPK)	1.8	hours
Flow per Clarifier for Hydraulic Detention Time @ Design Flow (w/ Recycle)	0.10	MGD
Flow per Clarifier for Hydraulic Detention Time @ Design Flow (w/ Recycle)	0.40	MGD
Required Treatment Volume At Design Flow for Each Clarifier	1,448.3	ft ³
		ft ³
Required Treatment Volume At Peak Flow for Each Clarifier	4,010.7	
Proposed Treatment Volume for Each Clarifier	9,079.2	ft ³
Actual Hydraulic Detention Time at Design Flow	16.3	hours
Actual Hydraulic Detention Time at Peak Flow	4.1	hours
SOLIDS LOADING RATE - TCEQ 317.4 (d)(5)		
Totals Solids to Clarifier	10,008.0	lbs/day
Proposed Surface Area of Clarifier	907.9	ft ²
Loading Rate of Solids to Clarifier	11.0	lbs/day/ft ²
TCEQ Maximum Loading Rate	50.0	lbs/day/ft ²
Total Mariania Escaring Nate	36.0	1.25, 0.07, 1.0
EFFLUENT WEIR DESIGN - TCEQ 217.152 (d)		
Weir loading (For Plants with Design Flows 1.0 MGD or less)	20,000	gal/day/ft
Weir loading (For Plants with Design Flows Over 1.0 MGD)	30,000	gal/day/ft
Controlling Weir Loading Criteria	20,000.0	gal/day/ft
Total Length of Weir Required Per Clarifier @ Peak Flow	20.0	ft
Total Length of Weir Required For All Clarifiers @ Peak Flow	20.0	ft
Proposed Weir Distance from Wall	1.0	ft
Diameter of Effluent Weir	32.0	ft
Design Weir Length Per Clarifier	100.5	ft
Total Design Weir Length	100.5	ft
Actual Surface Area Loading @ Peak Flow	3,978.9	gal/day/ft ²
Actual Surface Area Loading @ Average Flow	994.7	gal/day/ft ²
TORQUE RATINGS OF DRIVES AND RAKES Resistive Force of Secondary Sludge (W)	6.0	lb/ft
Running Torque (Wr²)	1,734.0	ft-lbs
Running Torque (WI-)	1,754.0	11-105
RETURN ACTIVATED SLUDGE FLOW RATES - TCEQ 217.152 (j)		
Lower Limit Underflow Rate - TCEQ 217.152(j)	200	gpd/ft²
Minimum RAS Flow Rate (per clarifier)	126.1	gpm
Upper Limit Underflow Rate - TCEQ 217.152(j)	400	gpd/ft²
Maximum RAS Flow Rate (per clarifier)	252.2	gpm
Combined Upper Limit RAS Underflow Rate for Plant	252.2	gpm
STILLING WELL DESIGN		
Maximum Stilling Well Velocity (@ Peak Flow) TCEQ 217.152 (a)(4)	0.15	ft/sec
Peak Flow For Individual Clarifier	0.15	MGD
Total Area Required	4.1	ft ²
Diameter of Each Stilling Well	6.0	ft £12
Area of Each Stilling Well	28.3	ft ²



TCEQ DESIGN CRITERIA (CHAPTER	317.5 (B))	
Minimum Detention Time	15.0	days
Volume Requirement	20.0	ft³/lb BOD₅/day
Aeration Requirement	30.0	scfm/1000 ft ³
If Mechanical Aeration is Used	1.5	HP/1000 ft ³
TCEQ DESIGN CRITERIA (CHAPTER 217, 9	SUBCHAPTER J)	,
Minimum Temperature	15.0	deg C
Required Minimum Detention Time	60.0	days
Minimum Volatile Solids Loading Rate	100.0	lb/1000 ft ³ /day
Maximum Volatile Solids Loading Rate	200.0	lb/1000 ft ³ /day
Aeration Requirement	20.0	SCFM/1000 ft ³
NOTE: Aerobic digester has to be sized for	average day flow	
Biodegradable Volatile Solids in WAS	0.7	lb VS/BOD removed
Destruction	0.3	lb VS/BOD removed
Note: Typical minimum Solids Retention Time (SRT) maintained in WWTPs is 8 d		
Influent Solids	250	lbs/day
Digested Solids Production	198	lbs/day
Average Digested Solids Production	224	lbs/day
Total Sludge Production, lbs/day	224	lbs/day
Assumed Average Dig. Conc., mg/l	15,000.0	mg/l
Total Sludge to Aerobic Digester	1,790.00	gal/d
Volume Required Based on Min. Detention Time @ 60 Days	14,358.29	ft ³
Volume Required Based on Min. Detention Time @ 15 Days	3,589.57	ft ³
CHECK IF CHAPTER 217 VOLATILE SOLIDS LOADING RAT		I 11 / 1
Volatile Suspended Solids Loading	175	lbs/day
Volatile Solids Loading Rate for 60 Days Storage Volume	0.00073	lb/1000 ft ³
Volatile Solids Loading Rate Note: It is not possible to meet both the min. required detention time and min. I	ERROR!	
significant thickening before the sludge is stabilized in the digester. Hence, it is palone. Also, if the sludge is to be disposed of in a landfill, sludge stabilization will necessary. When a full detention time is not provided, the basin will not be a trusludge holding tank. SLUDGE HOLDING TANK DESIGN	I not be required and a full dete	ntion time is not
Number of Basins	2.0	Ea
Freeboard	1.5	ft
Side Water Depth	10.5	ft
Total Required Depth	12.0	ft
Actual Tank Depth	12.0	ft
Width	12.0	ft
Length	22.0	ft
Design Volume	5,544	ft ³
DESIGN CHECK		
Detention Time Design Volume to Loading Ratio	23.17 22.16	days ft³/lb BOD₅/day



WASTEWATER CHARACTERISTICS		
Design Flow Rate (Average Daily Flow)	0.10	MGD
Design Flow Rate (2-Hour Peak Flow)	0.40	MGD

CHLORINE CONTACT CHAMBER			
Description	Value	Unit	
TCEQ Min Detention Time (Q _{PK}) (TCEQ217.281(b)(1)	20.0	min	
TCEQ Required Minimum Volume	742.7	ft ³	
TCEQ Required Minimum Volume	5,555.6	gal	

Chlorine Contact Basin Sizing (Excluding Chlorine Mixing Chamber)			
Design Number of Trains	1.0		
Design Side Water Depth at Peak Flow	9.5	ft	
Design Width of Basin	12.0	ft	
Design Channel Width	2.0	ft	
Design Channel Length (Assumes 40:1 L:W ratio per TCEQ 217.281(a)(2))	80.0	ft	
Number of Partition	8.0	ea	
DESIGN LENGTH OF BASIN	18.0	ft	
PROPOSED VOLUME	1,520.0	ft ³	
	1,320.0		
ACTUAL CCB VOLUME	2,052.0	ft ³	
	+ -	ft ³ min	

SODIUM HYPOCHLORITE DOSAGE CALCULATIONS		
WASTEWATER CHARACTERISTICS		
Design Flow Rate (Average Daily Flow)	0.10	MGD
Design Flow Rate (2-Hour Peak Flow)	0.40	MGD
SODIUM HYPOCHLORITE DOSAGE		
Chlorine Dosage Rate (Table K.1, TCEQ 217.272 (B))	12.5	mg/l
Concentration of NaOCI	12.5%	
Specific Gravity of NaOCl	1.17	
Calculated Chlorine Dosage Rate @ Design Flow Eq. K.1 TCEQ 217.272 (a)	10.4	lbs/day
Calculated Chlorine Dosage Rate @ Peak Flow Eq. K.1 TCEQ 217.272 (a)	41.7	lbs/day
NaOCI Required @ Design Flow	83.4	lbs/day
NaOCl Required @ Peak Flow	333.6	lbs/day
Volume of NaOCI requied @ Design Flow	8.5	gpd
Volume of NaOCl requied @ Peak Flow	34.2	gpd

Note: TCEQ 217.280(d)(1)(A) and (B). For NaOCI conc >10%, 15 days of storage based on avg. daily consumption. For NaOCI conc <10%, 30 days of storage based on avg daily consumption

Storage Volume of NaOCI (15 Days)	128.2	gal
Number of Storage Tanks	1	Ea
SODIUM HYPOCHLORITE PUMP DESIGN		
Metering Pump Design Flow (Eq. K.4)	0.1	gph
Minimum Number of Chemical Pumps	2.0	Ea



PROJECT NAME: Alvin 350 WWTP Ph II DATE: 4/16/2025

CLIENT: South Central Wastewater BY: AA
PROJECT NUMBER: 40003-018 QC: ENW

WASTEWATER AND PLANT CHARACTERIZATION

PHASE II

Flow Ra	<u>tes</u>									
	Annual Average			0.35	MGD	243	GPM	0.54	CFS	
	Peak Month	Factor	1.5	0.53	MGD	365	GPM	0.81	CFS	
	Peak 2-Hour	Factor	4	1.40	MGD	972	GPM	2.17	CFS	
	Min. Month	Factor	0.5	0.18	MGD	122	GPM	0.27	CFS	

Raw Wastewater Concentrations	Avg.	2-Hour Peak	Peak Month	Min. Month	
BOD (total)	300	100	250	200 mg/L	Assumed
BOD (soluble)	180			mg/L	
TSS	300			mg/L	
VSS	240			mg/L	
TKN	50			mg/L	
NH3-N	40			mg/L	
TP				mg/L	

Effluent Requirements

BOD	10	mg/L
TSS	15	mg/L
NH3-N	2	mg/L
TP		mg/L
DO		mg/L

Select Treatment Processes from the List

Preliminary Treatment Coarse Screening

Primary Treatment None

Biological Treatment Conventional Activated Sludge w/ Nitrification, @ Min.

Solids Treatment Aerobic Digestion + Dewatering



WASTEWATER CHAR	ACTERISTICS	
INFLUENT MASS LOADING		
BOD5 (AVG)	875.7	lbs/day
BOD5 (2-HR PEAK)	1,167.6	lbs/day
BOD5 (PEAK MONTH)	1,094.6	lbs/day
BOD5 (MIN MONTH)	291.9	lbs/day
TSS	875.7	lbs/day
NH ₃	116.8	lbs/day
TKN	146.0	lbs/day
EFFLUENT COMPOSITION (ASSUMED FOR CONSERVATIVE DESIGN)		
BOD5	10.0	mg/L
TSS	15.0	mg/L
PHASE II	3.0	mg/L
TKN	0.0	mg/L

AERATION BASIN		
Conventional Activated Sludge w/ Nitrification, @ Min. Temp > 15°C		
Description	Value	Unit
AERATION BASIN CALCULATIONS - TCEQ TRADITIONAL DESIGN - TCEQ 217, SUBCHAPTER F		
Aeration Basin Maximum Organic Loading	35.0	lbs/day/1000 ft ³
Minimum Number of Basins (For Flow < 0.4 MGD)	2.0	EA
BOD Removal Credit for Preliminary and Primary Treatment (Optional)	0%	
Total Peak BOD Loading (Based on Design Flow)	876	lbs/day
Total Aeration Basin Volume Required	25,020	ft ³

AERATION BASIN SIZING		
Proposed Number of Basins	8.0	
Side Water Depth of Basins	10.3	ft
Freeboard	1.5	ft
Total Depth of Basin	12.0	ft
Diffuser Submergence	9.8	ft
Required Volume of Each Aeration Basin	3,128	ft ³
Surface Area of Each Basin	303	ft ²
Width to Length Ratio (1:X)	2.5	
Required Width of Each Basin	12.0	ft
Required Length of Each Basin	30	ft
Proposed Volume of Each Aeration Basin	3,641	ft³
Proposed Total Aeration Basin Volume	29,131	ft ³



WASTEWATER CHARACTER	RISTICS	
Description	Value	Unit
Influent BOD₅	300.0	mg/L
Influent TSS	300.0	mg/L
Influent NH₃	40.0	mg/L
Daily Flow (Q _{AVE})	350,000.0	gpd
Daily Flow (Q _{AVE})	243.1	gpm
Daily Flow (Q _{AVE})	0.543	cfs
2-hr Peak Flow (Q _{PK})	1,400,000	gpd
2-hr Peak Flow (Q _{PK})	972.2	gpm
2-hr Peak Flow (Q _{PK})	2.170	cfs
NH ₃	117.0	lbs/day
PHASE II	877.8	lbs/day
TSS	877.8	lbs/day

Description		
Conventional Activated Sludge w/ Nitrification, @ Min. Temp > 15°C		
SECONDARY CLARIFIER		
Description	Value	Unit
Number of Clarifiers	2.0	Ea
Average Flow Per Clarifier	0.175	MGD
Peak Flow Per Clarifier	0.70	MGD
Clarifier Shape (Round, Octagonal, Square)	Round	
Design Weir Shape (Round, Segmented)	Round	
Design Number of Segments (Leave Blank If Designed Round)		

SURFACE AREA DESIGN - TCEQ 217.154 (c)(1)		
TCEQ Max Surface Loading (Q _{AVG}) TCEQ 317.4 (d)(5)	700	gal/day/ft ²
TCEQ Max Surface Loading (QPK) TCEQ 217.154 (c)(1)	1,200	gal/day/ft ²
Design Diameter	34.0	ft
Surface Area Required at Peak Flow Per Clarifier	583.3	ft ²
Surface Area Required for All Clarifiers at Peak Flow	1,166.7	ft ²
Proposed Surface Area Per Clarifier	907.9	ft ²
Total Proposed Surface Area for All Clarifiers	1,815.8	ft ²
Actual Design Surface Loading at Design Flow (Q _{AVE})	192.7	gal/day/ft ²
Actual Design Surface Loading at Peak Flow (Q _{PK})	771.0	gal/day/ft ²

SIDE WATER DEPTH - TCEQ 217.152 (g)		
Side Water Depth For Clarifier Surface Area Greater Than 300 sqft.	10	ft
Side Water Depth For Clarifier Surface Area Equal To Or Less Than 300 sqft.	8	ft
Controlling Minimum Depth Requirement	10.0	ft
Proposed Clarifier Side Water Depth (Not Total Depth)	10.0	ft
Design Floor Slope (1:X)	12.0	
Design Cone Depth (Including 1:12, sloped bottom)	1.4	ft
Free Board (Minimum 1 feet)	1.0	ft
Total Depth of Clarifier	12.417	ft
Design Total Depth of Clarifier	12.5	ft



WASTEWATER CHARACTERISTICS		
Description	Value	Unit
HYDRAULIC DETENTION TIME - TCEQ 217.154 (c)(1)		
TCEQ Min Detention Time (QAVE)	2.6	hours
TCEQ Min Detention Time (QPK)	1.8	hours
	-	
Flow per Clarifier for Hydraulic Detention Time @ Design Flow (w/ Recycle) Flow per Clarifier for Hydraulic Detention Time @ Peak Flow (w/ Recycle)	0.18 0.70	MGD MGD
		ft ³
Required Treatment Volume At Design Flow for Each Clarifier	2,534.5	
Required Treatment Volume At Peak Flow for Each Clarifier	7,018.7	ft ³
Proposed Treatment Volume for Each Clarifier	9,079.2	ft ³
Actual Hydraulic Detention Time at Design Flow	9.3	hours
Actual Hydraulic Detention Time at Peak Flow	2.3	hours
SOLIDS LOADING RATE - TCEQ 317.4 (d)(5)		
Totals Solids to Clarifier	17,514.0	lbs/day
Proposed Surface Area of Clarifier	907.9	ft ²
Loading Rate of Solids to Clarifier	19.3	lbs/day/ft ²
TCEQ Maximum Loading Rate	50.0	lbs/day/ft ²
TCLQ Waximum Loading Nate	30.0	ibs/uay/it
EFFLUENT WEIR DESIGN - TCEQ 217.152 (d)		
Weir loading (For Plants with Design Flows 1.0 MGD or less)	20,000	gal/day/ft
Weir loading (For Plants with Design Flows Over 1.0 MGD)	30,000	gal/day/ft
Controlling Weir Loading Criteria	20,000.0	gal/day/ft
Total Length of Weir Required Per Clarifier @ Peak Flow	35.0	ft
Total Length of Weir Required For All Clarifiers @ Peak Flow	70.0	ft
Proposed Weir Distance from Wall	1.0	ft
Diameter of Effluent Weir	32.0	ft
Design Weir Length Per Clarifier	100.5	ft
Total Design Weir Length	201.1	ft
Actual Surface Area Loading @ Peak Flow	6,963.0	gal/day/ft ²
Actual Surface Area Loading @ Average Flow	1,740.8	gal/day/ft ²
TOROUT DATINGS OF DRIVES AND DAVES		
TORQUE RATINGS OF DRIVES AND RAKES Resistive Force of Secondary Sludge (W)	6.0	lb/ft
Running Torque (Wr ²)	1,734.0	ft-lbs
Adminig Torque (WT)	1,734.0	11-103
RETURN ACTIVATED SLUDGE FLOW RATES - TCEQ 217.152 (j)		
Lower Limit Underflow Rate - TCEQ 217.152(j)	200	gpd/ft²
Minimum RAS Flow Rate (per clarifier)	126.1	gpm
Upper Limit Underflow Rate - TCEQ 217.152(j)	400	gpd/ft²
Maximum RAS Flow Rate (per clarifier)	252.2	gpm
Combined Upper Limit RAS Underflow Rate for Plant	504.4	gpm
STILLING WELL DESIGN		
Maximum Stilling Well Velocity (@ Peak Flow) TCEQ 217.152 (a)(4)	0.15	ft/sec
Peak Flow For Individual Clarifier	0.70	MGD
	7.2	ft ²
Total Area Required		
Total Area Required Diameter of Each Stilling Well	6.0	ft



TCEQ DESIGN CRITERIA (CHAPTER 31	17 5 (R))	
Minimum Detention Time	15.0	days
Volume Requirement	20.0	ft³/lb BOD₅/day
· · · · · · · · · · · · · · · · · · ·		
Aeration Requirement	30.0	scfm/1000 ft ³
If Mechanical Aeration is Used	1.5	HP/1000 ft ³
TCEQ DESIGN CRITERIA (CHAPTER 217, SU		don C
Minimum Temperature Required Minimum Detention Time	15.0 60.0	deg C
·		days
Minimum Volatile Solids Loading Rate	100.0	lb/1000 ft ³ /day
Maximum Volatile Solids Loading Rate	200.0	lb/1000 ft ³ /day
Aeration Requirement	20.0	SCFM/1000 ft ³
NOTE: Aerobic digester has to be sized for a		
PHASE II	0.7	lb VS/BOD removed
Destruction	0.3	lb VS/BOD removed
Note: Typical minimum Solids Retention Time (SRT) maintained in WWTPs is 8 day	<u> </u>	
Influent Solids	876	lbs/day
Digested Solids Production	692	lbs/day
Average Digested Solids Production	784	lbs/day
Total Sludge Production, lbs/day	784	lbs/day
Assumed Average Dig. Conc., mg/l	15,000.0	mg/l
Total Sludge to Aerobic Digester	6,265.00	gal/d
Volume Required Based on Min. Detention Time @ 60 Days	50,254.01	ft³
Volume Required Based on Min. Detention Time @ 15 Days	12,563.50	ft ³
CHECK IF CHAPTER 217 VOLATILE SOLIDS LOADING RATE I	 	
Volatile Suspended Solids Loading	613	lbs/day
Volatile Solids Loading Rate for 60 Days Storage Volume	0.00073	lb/1000 ft ³
Volatile Solids Loading Rate Note: It is not possible to meet both the min. required detention time and min. required detention time and min.	ERROR!	
significant thickening before the sludge is stabilized in the digester. Hence, it is prual one. Also, if the sludge is to be disposed of in a landfill, sludge stabilization will necessary. When a full dettention time is not provided, the basin will not be a true sludge holding tank. SLUDGE HOLDING TANK DESIGN	not be required and a full deter	ntion time is not
Number of Basins	8.0	Ea
Freeboard	1.5	ft
Side Water Depth	10.5	ft
Total Required Depth	12.0	ft
Actual Tank Depth	12.0	ft
Width	12.0	ft
Length	22.0	ft
Design Volume	22,176	ft ³
DESIGN CHECK		
Detention Time Design Volume to Loading Ratio	26.48	days
	25.32	ft ³ /lb BOD₅/day



WASTEWATER CHARACTERISTICS		
Design Flow Rate (Average Daily Flow)	0.35	MGD
Design Flow Rate (2-Hour Peak Flow)	1.40	MGD

CHLORINE CONTACT CHAMBER				
Description	Value	Unit		
TCEQ Min Detention Time (Q _{PK}) (TCEQ217.281(b)(1)	20.0	min		
TCEQ Required Minimum Volume	2,599.5	ft ³		
TCEQ Required Minimum Volume	19,444.4	gal		

Chlorine Contact Basin Sizing (Excluding Chlorine Mixing Chamber)		
Design Number of Trains	2.0	
Design Side Water Depth at Peak Flow	9.5	ft
PHASE II	12.0	ft
Design Channel Width	2.0	ft
Design Channel Length (Assumes 40:1 L:W ratio per TCEQ 217.281(a)(2))	80.0	ft
Number of Partition	8.0	ea
DESIGN LENGTH OF BASIN	18.0	ft
PROPOSED VOLUME	3,040.0	ft ³
ACTUAL CCB VOLUME	4,104.0	ft ³
Actual Detention Time at Peak Flow	31.6	min
ACTUAL CHANNEL LENGTH	108.0	ft

CODUM LIVEOCIU ODITE DOCACE CALCIU ATIONS		
SODIUM HYPOCHLORITE DOSAGE CALCULATIONS		
WASTEWATER CHARACTERISTICS		
Design Flow Rate (Average Daily Flow)	0.35	MGD
Design Flow Rate (2-Hour Peak Flow)	1.40	MGD
SODIUM HYPOCHLORITE DOSAGE		
Chlorine Dosage Rate (Table K.1, TCEQ 217.272 (B))	12.5	mg/l
Concentration of NaOCI	12.5%	
Specific Gravity of NaOCl	1.17	
Calculated Chlorine Dosage Rate @ Design Flow Eq. K.1 TCEQ 217.272 (a)	36.5	lbs/day
Calculated Chlorine Dosage Rate @ Peak Flow Eq. K.1 TCEQ 217.272 (a)	146.0	lbs/day
NaOCI Required @ Design Flow	291.9	lbs/day
NaOCl Required @ Peak Flow	1,167.6	lbs/day
Volume of NaOCl requied @ Design Flow	29.9	gpd
Volume of NaOCl requied @ Peak Flow	119.7	gpd

Note: TCEQ 217.280(d)(1)(A) and (B). For NaOCI conc >10%, 15 days of storage based on avg. daily consumption. For NaOCI conc <10%, 30 days of storage based on avg daily consumption

Storage Volume of NaOCI (15 Days)	448.7	gal
Number of Storage Tanks	1	Ea
SODIUM HYPOCHLORITE PUMP DESIGN		
Metering Pump Design Flow (Eq. K.4)	0.1	gph
Minimum Number of Chemical Pumps	2.0	Ea



PROJECT NAME: Alvin 350 WWTP Ph III DATE: 4/16/2025

CLIENT: South Central Wastewater BY: AA
PROJECT NUMBER: 40003-018 QC: ENW

WASTEWATER AND PLANT CHARACTERIZATION

PHASE III

Flow Rates								
Annual Average			0.60 MGD	417	GPM	0.93	CFS	
Peak Month	Factor	1.5	0.90 MGD	625	GPM	1.40	CFS	
Peak 2-Hour	Factor	4	2.40 MGD	1,667	GPM	3.72	CFS	
Min Month	Factor	0.5	0.30 MGD	208	GPM	0.47	CES	

Raw Wastewater Concentrations	Avg.	2-Hour Peak	Peak Month	Min. Month	
BOD (total)	300	100	250	200	mg/L Assumed
BOD (soluble)	180				mg/L
TSS	300				mg/L
VSS	240				mg/L
TKN	50				mg/L
NH3-N	40				mg/L
TP					mg/I

Effluent Requirements

BOD	10	mg/L
TSS	15	mg/L
NH3-N	2	mg/L
TP		mg/L
DO		mg/L

Select Treatment Processes from the List

Preliminary Treatment Coarse Screening

Primary Treatment None

Biological Treatment Conventional Activated Sludge w/ Nitrification, @ Min.

Solids Treatment Aerobic Digestion + Dewatering



WASTEWATER CHARACTERISTI	CS	
INFLUENT MASS LOADING		
BOD5 (AVG)	1,501.2	lbs/day
BOD5 (2-HR PEAK)	2,001.6	lbs/day
BOD5 (PEAK MONTH)	1,876.5	lbs/day
BOD5 (MIN MONTH)	500.4	lbs/day
TSS	1,501.2	lbs/day
NH ₃	200.2	lbs/day
TKN	250.2	lbs/day
EFFLUENT COMPOSITION (ASSUMED FOR CONSERVATIVE DESIGN)		
BOD5	10.0	mg/L
TSS	15.0	mg/L
NH ₃	3.0	mg/L
TKN	0.0	mg/L

AERATION BASIN		
Conventional Activated Sludge w/ Nitrification, @ Min. Temp > 15°C		
Description	Value	Unit
AERATION BASIN CALCULATIONS - TCEQ TRADITIONAL DESIGN - TCEQ 217, SUBCHAPTER F		
Aeration Basin Maximum Organic Loading	35.0	lbs/day/1000 ft ³
Minimum Number of Basins (For Flow < 0.4 MGD)	2.0	EA
BOD Removal Credit for Preliminary and Primary Treatment (Optional)	0%	
Total Peak BOD Loading (Based on Design Flow)	1,501	lbs/day
Total Aeration Basin Volume Required	42,891	ft ³

AERATION BASIN SIZING		
Proposed Number of Basins	12.0	
Side Water Depth of Basins	10.3	ft
Freeboard	1.5	ft
Total Depth of Basin	12.0	ft
Diffuser Submergence	9.8	ft
Required Volume of Each Aeration Basin	3,574	ft³
Surface Area of Each Basin	346	ft²
Width to Length Ratio (1:X)	2.5	
Required Width of Each Basin	12.0	ft
Required Length of Each Basin	30	ft
Proposed Volume of Each Aeration Basin	3,641	ft³
Proposed Total Aeration Basin Volume	43,696	ft ³



SECONDARY CLARIFIERS		
WASTEWATER CHARACTERISTICS	S	
Description	Value	Unit
Influent BOD₅	300.0	mg/L
Influent TSS	300.0	mg/L
Influent NH₃	40.0	mg/L
Daily Flow (Q _{AVE})	600,000.0	gpd
Daily Flow (Q _{AVE})	416.7	gpm
Daily Flow (Q _{AVE})	0.930	cfs
2-hr Peak Flow (QPK)	2,400,000	gpd
2-hr Peak Flow (Q _{PK})	1,666.7	gpm
2-hr Peak Flow (Q _{PK})	3.720	cfs
NH ₃	200.6	lbs/day
BOD ₅	1,504.8	lbs/day
TSS	1,504.8	lbs/day

Description		
Conventional Activated Sludge w/ Nitrification, @ Min. Temp > 15°C		
SECONDARY CLARIFIER	₹	
Description	Value	Unit
Number of Clarifiers	3.0	Ea
Average Flow Per Clarifier	0.20	MGD
Peak Flow Per Clarifier	0.80	MGD
Clarifier Shape (Round, Octagonal, Square)	Round	
Design Weir Shape (Round, Segmented)	Round	
Design Number of Segments (Leave Blank If Designed Round)		

SURFACE AREA DESIGN - TCEQ 217.154 (c)(1)		
TCEQ Max Surface Loading (Q _{AVG}) TCEQ 317.4 (d)(5)	700	gal/day/ft ²
TCEQ Max Surface Loading (QPK) TCEQ 217.154 (c)(1)	1,200	gal/day/ft ²
Design Diameter	34.0	ft
Surface Area Required at Peak Flow Per Clarifier	666.7	ft²
Surface Area Required for All Clarifiers at Peak Flow	2,000.0	ft²
Proposed Surface Area Per Clarifier	907.9	ft ²
Total Proposed Surface Area for All Clarifiers	2,723.8	ft²
Actual Design Surface Loading at Design Flow (Q _{AVE})	220.3	gal/day/ft ²
Actual Design Surface Loading at Peak Flow (QPK)	881.1	gal/day/ft ²

SIDE WATER DEPTH - TCEQ 217.152 (g)		
Side Water Depth For Clarifier Surface Area Greater Than 300 sqft.	10	ft
Side Water Depth For Clarifier Surface Area Equal To Or Less Than 300 sqft.	8	ft
Controlling Minimum Depth Requirement	10.0	ft
Proposed Clarifier Side Water Depth (Not Total Depth)	10.0	ft
Design Floor Slope (1:X)	12.0	
Design Cone Depth (Including 1:12, sloped bottom)	1.4	ft
Free Board (Minimum 1 feet)	1.0	ft
Total Depth of Clarifier	12.417	ft
Design Total Depth of Clarifier	12.5	ft



WASTEWATER CHARACTERISTICS		•
Description	Value	Unit
HYDRAULIC DETENTION TIME - TCEQ 217.154 (c)(1)		
TCEQ Min Detention Time (Q _{AVE})	2.6	hours
• •		
TCEQ Min Detention Time (Q _{PK})	1.8	hours
Flow per Clarifier for Hydraulic Detention Time @ Design Flow (w/ Recycle)	0.20	MGD
Flow per Clarifier for Hydraulic Detention Time @ Peak Flow (w/ Recycle)	0.80	MGD
Required Treatment Volume At Design Flow for Each Clarifier	2,896.6	ft ³
Required Treatment Volume At Peak Flow for Each Clarifier	8,021.4	ft ³
Proposed Treatment Volume for Each Clarifier	9,079.2	ft ³
Actual Hydraulic Detention Time at Design Flow	8.1	hours
Actual Hydraulic Detention Time at Peak Flow	2.0	hours
COLIDS LOADING DATE. TOTO, 247 4 /41/51		
SOLIDS LOADING RATE - TCEQ 317.4 (d)(5) Totals Solids to Clarifier	20,016.0	lbs/day
Proposed Surface Area of Clarifier	907.9	ft ²
·		
Loading Rate of Solids to Clarifier	22.0	lbs/day/ft ²
CEQ Maximum Loading Rate	50.0	lbs/day/ft ²
FFLUENT WEIR DESIGN - TCEQ 217.152 (d)		
Weir loading (For Plants with Design Flows 1.0 MGD or less)	20,000	gal/day/ft
Neir loading (For Plants with Design Flows Over 1.0 MGD)	30,000	gal/day/ft
Controlling Weir Loading Criteria	20,000.0	gal/day/ft
Fotal Length of Weir Required Per Clarifier @ Peak Flow	40.0	ft
Total Length of Weir Required For All Clarifiers @ Peak Flow	120.0	ft
Proposed Weir Distance from Wall	1.0	ft
Diameter of Effluent Weir	32.0	ft
Design Weir Length Per Clarifier	100.5	ft
Total Design Weir Length	301.6	ft
Actual Surface Area Loading @ Peak Flow	7,957.7	gal/day/ft ²
Actual Surface Area Loading @ Average Flow	1,989.4	gal/day/ft ²
	,	g. r. r. n
ORQUE RATINGS OF DRIVES AND RAKES		
Resistive Force of Secondary Sludge (W)	6.0	lb/ft
Running Torque (Wr²)	1,734.0	ft-lbs
RETURN ACTIVATED SLUDGE FLOW RATES - TCEQ 217.152 (j)		
ower Limit Underflow Rate - TCEQ 217.152 (j)	200	gpd/ft²
Minimum RAS Flow Rate (per clarifier)	126.1	gpm
Jpper Limit Underflow Rate - TCEQ 217.152(j)	400	gpd/ft²
Maximum RAS Flow Rate (per clarifier)	252.2	gpm
Combined Upper Limit RAS Underflow Rate for Plant	756.6	gpm
STILLING WELL DESIGN		
Maximum Stilling Well Velocity (@ Peak Flow) TCEQ 217.152 (a)(4)	0.15	ft/sec
Peak Flow For Individual Clarifier	0.80	MGD
Total Area Required	8.3	ft ²
Diameter of Each Stilling Well	6.0	ft
Area of Each Stilling Well	28.3	ft ²



AEROBIC DIGESTER		
TCEQ DESIGN CRITERIA (CHAPTER		
Minimum Detention Time	15.0	days
Volume Requirement	20.0	ft³/lb BOD₅/day
Aeration Requirement	30.0	scfm/1000 ft ³
If Mechanical Aeration is Used	1.5	HP/1000 ft ³
TCEQ DESIGN CRITERIA (CHAPTER 217,	SUBCHAPTER J)	
Minimum Temperature	15.0	deg C
Required Minimum Detention Time	60.0	days
Minimum Volatile Solids Loading Rate	100.0	lb/1000 ft ³ /day
Maximum Volatile Solids Loading Rate	200.0	lb/1000 ft ³ /day
Aeration Requirement	20.0	SCFM/1000 ft ³
NOTE: Aerobic digester has to be sized for	average day flow	
Biodegradable Volatile Solids in WAS	0.7	lb VS/BOD remove
Destruction	0.3	lb VS/BOD remove
Note: Typical minimum Solids Retention Time (SRT) maintained in WWTPs is 8 d	lays. Secondary	
Influent Solids	1,501	lbs/day
Digested Solids Production	1,186	lbs/day
Average Digested Solids Production	1,344	lbs/day
Total Sludge Production, lbs/day	1,344	lbs/day
Assumed Average Dig. Conc., mg/l	15,000.0	mg/l
Total Sludge to Aerobic Digester	10,740.00	gal/d
Volume Required Based on Min. Detention Time @ 60 Days	86,149.73	ft ³
Volume Required Based on Min. Detention Time @ 15 Days	21,537.43	ft ³
CHECK IF CHAPTER 217 VOLATILE SOLIDS LOADING RAT		1
Volatile Suspended Solids Loading	1,051	lbs/day
Volatile Solids Loading Rate for 60 Days Storage Volume	0.00073	lb/1000 ft ³
Volatile Solids Loading Rate Note: It is not possible to meet both the min. required detention time and min.	ERROR!	
significant thickening before the sludge is stabilized in the digester. Hence, it is palone. Also, if the sludge is to be disposed of in a landfill, sludge stabilization will necessary. When a full dettention time is not provided, the basin will not be a trackludge holding tank. SLUDGE HOLDING TANK DESIGN	ll not be required and a full dete	ntion time is not
Number of Basins	12.0	Ea
Freeboard	1.5	ft
Side Water Depth	10.5	ft
Total Required Depth	12.0	ft
Actual Tank Depth	12.0	ft
Width	12.0	ft
	22.0	ft
Length		
-	33,264	ft ³
Design Volume DESIGN CHECK		
Length Design Volume DESIGN CHECK Detention Time	23.17	ft ³ days



WASTEWATER CHARACTERISTICS		
Design Flow Rate (Average Daily Flow)	0.60	MGD
Design Flow Rate (2-Hour Peak Flow)	2.40	MGD

CHLORINE CONTACT CHAMBER		
Description	Value	Unit
TCEQ Min Detention Time (Q _{PK}) (TCEQ217.281(b)(1)	20.0	min
TCEQ Required Minimum Volume	4,456.3	ft ³
TCEQ Required Minimum Volume	33,333.3	gal

Chlorine Contact Basin Sizing (Excluding Chlorine Mixing Chamber)		
Design Number of Trains	3.0	
Design Side Water Depth at Peak Flow	9.5	ft
Design Width of Basin	12.0	ft
Design Channel Width	2.0	ft
Design Channel Length (Assumes 40:1 L:W ratio per TCEQ 217.281(a)(2))	80.0	ft
Number of Partition	8.0	ea
DESIGN LENGTH OF BASIN	18.0	ft
PROPOSED VOLUME	4,560.0	ft ³
ACTUAL CCB VOLUME	6,156.0	ft ³
Actual Detention Time at Peak Flow	27.6	min

CODULA LIVEOCIU ODITE DOCACE CALCIU ATIONIC		
SODIUM HYPOCHLORITE DOSAGE CALCULATIONS		
WASTEWATER CHARACTERISTICS		
Design Flow Rate (Average Daily Flow)	0.60	MGD
Design Flow Rate (2-Hour Peak Flow)	2.40	MGD
SODIUM HYPOCHLORITE DOSAGE		
Chlorine Dosage Rate (Table K.1, TCEQ 217.272 (B))	12.5	mg/l
Concentration of NaOCI	12.5%	
Specific Gravity of NaOCI	1.17	
Calculated Chlorine Dosage Rate @ Design Flow Eq. K.1 TCEQ 217.272 (a)	62.6	lbs/day
Calculated Chlorine Dosage Rate @ Peak Flow Eq. K.1 TCEQ 217.272 (a)	250.2	lbs/day
NaOCI Required @ Design Flow	500.4	lbs/day
NaOCl Required @ Peak Flow	2,001.6	lbs/day
Volume of NaOCI requied @ Design Flow	51.3	gpd
Volume of NaOCl requied @ Peak Flow	205.1	gpd

Note: TCEQ 217.280(d)(1)(A) and (B). For NaOCl conc >10%, 15 days of storage based on avg. daily consumption. For NaOCl conc <10%, 30 days of storage based on avg daily consumption

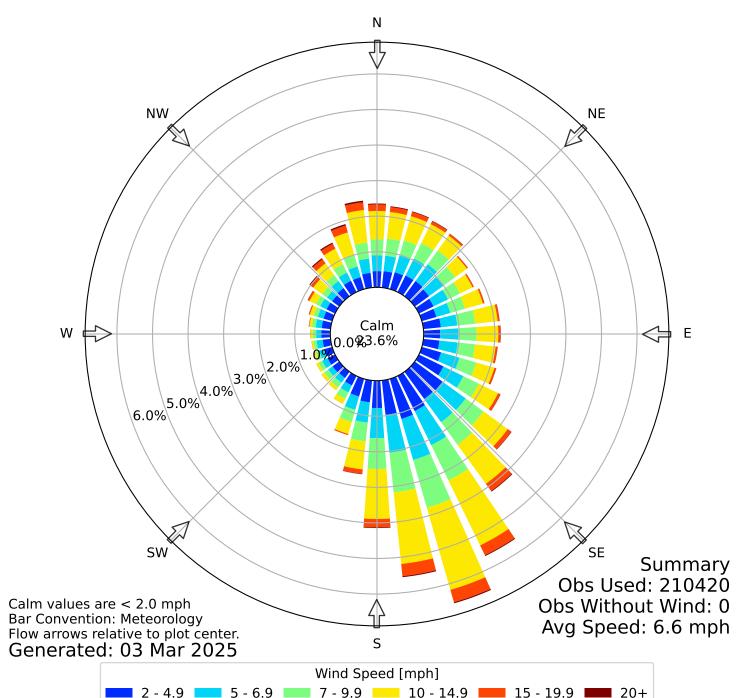
Storage Volume of NaOCl (15 Days)	769.2	gal
Number of Storage Tanks	1	Ea
SODIUM HYPOCHLORITE PUMP DESIGN		
Metering Pump Design Flow (Eq. K.4)	0.1	gph
Minimum Number of Chemical Pumps	2.0	Ea

Appendix O

Wind Rose



Windrose Plot for [LVJ] Pearland Regional Obs Between: 01 Nov 1998 01:53 AM - 30 Sep 2024 11:53 PM America/Chicago



Appendix P

Solids Management Plan

ALVIN 350 WWTP 40003-018

SLUDGE MANAGEMENT PLAN PH I - 0.1 MGD

I.PARAMETERS

% CAPACITIES	100%	75%	50%	25%
AVG. FLOW (MGD)	0.100	0.075	0.0375	0.009

CBOD5 REMOVAL			
Influent Concentration	300	mg/l	
Effluent Concentration	0	mg/l	
Net Removal	300	mg/l	

DIGESTER VOLUME		
	Vol. (cu. ft.)	Vol. (Gal)
Digester No. 1	2,772	20,735
Digester No. 2	2,772	20,735
Total	5,544	41,469

II. DAILY SLUDGE PRODUCTIONS

CAPACITY	100%	75%	50%	25%
BOD REMOVED (LBS)	250	188	125	63
DRY SLUDGE PRODUCED ⁽¹⁾ (LBS)	79	59	39	20
WET SLUDGE PRODUCED ⁽²⁾ (LBS)	3,941	2,955	1,970	985
VOL WET SLUDGE PRODUCED (GPD)	473	354	236	118
REMOVAL SCHEDULE (DAYS)	87	117	175	351

(1) Assuming 0.315 lbs of dry sludge produced per pound of BOD5 removed (2) Assuming 2% Solids

Sludge will be removed from digester when digester is full of thickened solids. Sludge will be removed by a registered transporter and hauled to a permitted disposal site.

At 100% Capacity, sludge shall be removed from basins every 87 days



ALVIN 350 WWTP 40003-018

SLUDGE MANAGEMENT PLAN PH II - 0.35 MGD

I.PARAMETERS

% CAPACITIES	100%	75%	50%	25%
AVG. FLOW (MGD)	0.350	0.2625	0.13125	0.033

CBOD ₅ REMOVAL			
Influent Concentration	300	mg/l	
Effluent Concentration	0	mg/l	
Net Removal	300	mg/l	

DIGESTER VOLUME		
	Vol. (cu. ft.)	Vol. (Gal)
Digester No. 1	2,772	20,735
Digester No. 2	2,772	20,735
Digester No. 3	2,772	20,735
Digester No. 4	2,772	20,735
Digester No. 5	2,772	20,735
Digester No. 6	2,772	20,735
Digester No. 7	2,772	20,735
Digester No. 8	2,772	20,735
Total	22,176	165,876

II. DAILY SLUDGE PRODUCTIONS

CAPACITY	100%	75%	50%	25%
BOD REMOVED (LBS)	876	657	438	219
DRY SLUDGE PRODUCED ⁽¹⁾ (LBS)	276	207	138	69
WET SLUDGE PRODUCED ⁽²⁾ (LBS)	13,792	10,344	6,896	3,448
VOL WET SLUDGE PRODUCED (GPD)	1654	1240	827	413
REMOVAL SCHEDULE (DAYS)	100	133	200	401

(1) Assuming 0.315 lbs of dry sludge produced per pound of BOD5 removed (2) Assuming 2% Solids

Sludge will be removed from digester when digester is full of thickened solids. Sludge will be removed by a registered transporter and hauled to a permitted disposal site.

At 100% Capacity, sludge shall be removed from basins every 100 days



ALVIN 350 WWTP 40003-018

SLUDGE MANAGEMENT PLAN PH III - 0.6 MGD

I.PARAMETERS

% CAPACITIES	100%	75%	50%	25%
AVG. FLOW (MGD)	0.600	0.45	0.225	0.056

CBOD5 REMOVAL				
Influent Concentration	300	mg/l		
Effluent Concentration	0	mg/l		
Net Removal	300	mg/l		

DIGESTER VOLUME				
	Vol. (cu. ft.)	Vol. (Gal)		
Digester No. 1	4,851	36,285		
Digester No. 2	4,851	36,285		
Digester No. 3	4,851	36,285		
Digester No. 4	4,851	36,285		
Digester No. 5	4,851	36,285		
Digester No. 6	4,851	36,285		
Digester No. 7	4,851	36,285		
Digester No. 8	4,851	36,285		
Digester No. 9	4,851	36,285		
Digester No. 10	4,851	36,285		
Digester No. 11	4,851	36,285		
Digester No. 12	4,851	36,285		
Total	58,212	435,426		

II. DAILY SLUDGE PRODUCTIONS

CAPACITY	100%	75%	50%	25%
BOD REMOVED (LBS)	1501	1126	751	375
DRY SLUDGE PRODUCED ⁽¹⁾ (LBS)	473	355	236	118
WET SLUDGE PRODUCED ⁽²⁾ (LBS)	23,644	17,733	11,822	5,911
VOL WET SLUDGE PRODUCED (GPD)	2835	2126	1418	709
REMOVAL SCHEDULE (DAYS)	153	204	307	614

⁽¹⁾ Assuming 0.315 lbs of dry sludge produced per pound of BOD5 removed (2) Assuming 2% Solids

Sludge will be removed from digester when digester is full of thickened solids. Sludge will be removed by a registered transporter and hauled to a permitted disposal site.

At 100% Capacity, sludge shall be removed from basins every 153 days