Texas Commission on Environmental Quality
Waste Permits Division Correspondence Cover Sheet

Date: 07/25/2025
Facility Name: Austin County Waste Solutions
Permit or Registration No.: _____

Nature of Correspondence:
☐ Initial/New
☒ Response/Revision to TCEQ Tracking No.: 31732866 (from subject line of TCEQ letter regarding initial submission)

Affix this cover sheet to the front of your submission to the Waste Permits Division. Check appropriate box for type of correspondence. Contact WPD at (512) 239-2335 if you have questions regarding this form.

Table 1 - Municipal Solid Waste Correspondence

Applications	Reports and Notifications
☐ New Notice of Intent	☐ Alternative Daily Cover Report
☒ Notice of Intent Revision	☐ Closure Report
☐ New Permit (including Subchapter T)	☐ Compost Report
☐ New Registration (including Subchapter T)	☐ Groundwater Alternate Source Demonstration
☐ Major Amendment	☐ Groundwater Corrective Action
☐ Minor Amendment	☐ Groundwater Monitoring Report
☐ Limited Scope Major Amendment	☐ Groundwater Background Evaluation
☐ Notice Modification	☐ Landfill Gas Corrective Action
☐ Non-Notice Modification	☐ Landfill Gas Monitoring
☐ Transfer/Name Change Modification	☐ Liner Evaluation Report
☐ Temporary Authorization	☐ Soil Boring Plan
☐ Voluntary Revocation	☐ Special Waste Request
☐ Subchapter T Disturbance Non-Enclosed Structure	☐ Other:
☐ Other:	

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Responses
☐ New	☐ Annual/Biennial Site Activity Report
☐ Renewal	☐ CPT Plan/Result
☐ Post-Closure Order	☐ Closure Certification/Report
☐ Major Amendment	☐ Construction Certification/Report
☐ Minor Amendment	☐ CPT Plan/Result
☐ CCR Registration	☐ Extension Request
☐ CCR Registration Major Amendment	☐ Groundwater Monitoring Report
☐ CCR Registration Minor Amendment	☐ Interim Status Change
☐ Class 3 Modification	☐ Interim Status Closure Plan
☐ Class 2 Modification	☐ Soil Core Monitoring Report
☐ Class 1 ED Modification	☐ Treatability Study
☐ Class 1 Modification	☐ Trial Burn Plan/Result
☐ Endorsement	☐ Unsaturated Zone Monitoring Report
☐ Temporary Authorization	☐ Waste Minimization Report
☐ Voluntary Revocation	☐ Other:
☐ 335.6 Notification	
☐ Other:	

Cover Letter
Revisions

CERTIFICATION

Permit/Registration No._____

Applicant: 7 R Solutions

I, Blake Giese Owner
Typed or printed name *Title*

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 this document and can provide documentation in proof of such authorization upon request.

Signature: [illegible] Date: 7/28/2025

TYPE V LIQUID PROCESSING REGISTRATION APPLICATION

Austin County Waste Solutions

Type V Liquid Waste Processing Facility
Bellville, Texas
Austin County

Prepared by:

7 R Solutions, LLC
3655 Woodley Ln
Bellville, Texas 77418

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

Intended for Permitting Purposes Only
December 2024

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Regulatory Checklist

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
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F-10131
7/10/25

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ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

Cover Letter

December 30, 2024

Electronically submitted via TCEQ Secure FTP Site
Hardcopy transmitted via FedEx delivery to:

Texas Commission on Environmental Quality (TCEQ)
Municipal Solids Waste Permit Section, Waste Permits Division, MC-124
12100 Park 35 Circle, Bldg. F
Austin, Texas 78753

Re: Austin County Waste Solutions
Type V Liquid Waste Processing Facility
Registration Application
Bellville, Austin County, Texas
CN- 606353829 / RN- 112143748

To whom it may concern:

7 R Solutions, LLC is submitting a Registration Application (RA) for the Texas Commission on Environmental Quality (TCEQ) Municipal Solid Waste (MSW) Permit Section, Waste Permits Division. This RA pertains to the operation of a Type V Liquid Waste Processing Facility located in Austin County, Texas, outside of the extraterritorial jurisdiction of the City of Bellville. The Austin County Waste Solutions processing facility encompasses 2 acres and is located 1500 feet from the intersection of Oil Field Road and School Road on the North Side of School Road.

This cover letter accompanies the following items, as required by 30 TAC 330.57 and applicable Chapter 330 rules for a RA:

- A TCEQ Core Data.
- Four Sets of mailing labels of the adjacent landowners
- A Plain Language Summary (PLS) in English and Spanish
- A completed Public Involvement Plan Form (TCEQ- 20960)
- A completed Regulatory Checklist (TCEQ Administrative and Technical Review Checklist for a Type V Liquid Waste Processing Facility RA.)
- One original and three copies of the RA, containing the required Part I Application Form, Parts I through IV.

If further information or documentation is required, please do not hesitate to contact me at (281) 725-0121.

Sincerely,

Blake Giese
SW0007814
7 R Solutions, LLC

TCEQ CORE DATA FORM (Form- 10400)

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 606353829		RN 112143748

SECTION II: Customer Information

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

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

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

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

7 R Solutions LLC

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
805192923		93-3165230	

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☒ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees

☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☒ **Yes** ☐ **No**

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

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

15. Mailing Address:							
3655 Woodley Lane							
City	Bellville	**State**	TX	**ZIP**	77418	**ZIP + 4**	

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

(281) 725-0121		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Austin County Waste Solutions

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	3655 Woodley LN							
	City	Bellville	**State**	TX	**ZIP**	77418	**ZIP + 4**	
24. County								

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

25. Description to Physical Location:	1500 feed SE from intersection from Oil Field Rd and School Rd.

26. Nearest City	**State**	**Nearest ZIP Code**
Bellville	TX	77418

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:		30.0100	**28. Longitude (W) In Decimal:**		96.0710
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	01	00	96	07	10

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952	4952	562991	339992

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Septage processing and disposal

34. Mailing Address:	**3655 Woodley Ln**							
	City	**Bellville**	**State**	**TX**	**ZIP**	**77418**	**ZIP + 4**	

35. E-Mail Address:	**austincountywastesolutions@gmail.com**

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 725-0121		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

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

SECTION IV: Preparer Information

40. Name:	Blake Giese	**41. Title:**	Owner

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(281) 725-0121		( ) -	austincountywastesolutions@gmail.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	7 R Solutions LLC	**Job Title:**	Owner
Name *(In Print):*	Blake Giese	**Phone:**	(281) 725- **0121**
Signature:	Blake Giese	**Date:**	7/25/2025

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

☐ Renewal *(Core Data Form should be submitted with the renewal form)*

☒ Other **Property Owner**

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN		**RN**

SECTION II: Customer Information

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

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

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

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

Kenneth Woodley

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

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

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

13. Independently Owned and Operated?
☐ Yes ☐ No

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

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

15. Mailing Address:							
2178 Wiestruck Rd							
City	Bellville	**State**	TX	**ZIP**	77418	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	agrigrowers23@gmail.com

(979) 885-8914		( ) -

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22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

7 R Solutions, LLC

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	3655 Woodley Ln							
	City	Bellville	**State**	TX	**ZIP**	77418	**ZIP + 4**	
24. County	Austin							

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

25. Description to Physical Location:		
26. Nearest City	**State**	**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

34. Mailing Address:								
	City		**State**		**ZIP**		**ZIP + 4**	

35. E-Mail Address:		
36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
( ) -		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

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

SECTION IV: Preparer Information

40. Name:		**41. Title:**	
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
( ) -		( ) -	

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:		**Job Title:**	Property owner
Name *(In Print):*	Kenneth Woodley	**Phone:**	(979) 885- **8914**
Signature:	Kenneth Woodley	**Date:**	8-5-25

Plain Language Summary- English

Texas Commission on Environmental Quality

Plain Language Summary of Municipal Solid Waste Permit or Permit Amendment Application

Applicants are required by public notice rules in Title 30 Texas Administrative Code, Chapter 39, Section 39.405(k)[1] to provide this summary of an application.

A. Purpose of the Proposed Facility

The Austin County Waste Solutions ("Facility") will be operated as a Type-V Liquid Waste Processing Facility, recieving domestic septage only and processing and staged before sending for disposal at an authorized TCEQ Benifecial Field Unit (BFU).

B. Information About the Applicant

Name: Blake Giese

Applicant Type: MSW Type V Liquid Waste Processing Facility

Facility Name: Austin County Waste Solutions

Permit Application Number:

Customer Number (CN): 606353829

Regulated Entity Reference Number (RN): 112143748

C. Location of the Proposed Facility

Facility Address (or description of site location if no address):

3655 Woodley Lane
Bellville, Texas 77418

Link to Map of Facility Location (TCEQ Location Mapper[2]): https://arcg.is/SqvmP

D. Information about Facility Operation

What types of waste would be received?

The Facility will recieve domestic spetage only. The Facility will recover about .5% of solids trash (tampon applicators, wipes, hot wheel cars and other "trophies") will be screened, loaded in to a dumpster for disposal at an approved off-site TCEQ permitted landfill with in 60 miles of the facility. The other 99.5% of the incoming domestic septage will be processed and sent to an TCEQ permitted BFU site.

What geographical area would the wastes come from?

The source these waste streams shall be made from residential and commercial septic systems with int the counties of the Houston- Galveston Area and Brazos Valley Council of Governements.

[1] www.tceq.texas.gov/goto/view-30tac
[2] www.tceq.texas.gov/gis/hb-610-viewer

What days and hours would the facility operate?

The Facility will recieve and process waste at a maxium 24 hours per day, 7 days a week. Hours of operation may vary slightly based on waste recieving.

At what rate would wastes be accepted?

The maximum daily volume of incoming waste is approximately 42,000 Gallons.

How would wastes be managed?

In general, waste will be recieved in the West South West side of the facility via hose. The septage will be seperated by screen liquid will continue and solid debris will be loaded into a dumpster to be sent to TCEQ approved landfill. Liquid will continue to move through process to be mixed with lime to 12 ph for above 30 minutes, then pumped to TCEQ approved BFU site.

E. Pollution Control Methods

What methods would the facility use for containing wastes and odors, and monitoring for releases?

The design capacity of the liquid waste processing facility will not be exceeded during operation. The Facility will not accumulate liquid waste in quantities that cannot be processed in such a time as to avoid the creation of adverse conditions such as odors, insect breeding or harborage of other vectors. If such events occur, additional liquid waste will not be received until the current waste is processed. In the event that the Facility becomes inoperable for periods longer than 24 hours, the Facility will restrict the receipt of liquid waste, and incoming waste stream will be diverted to another Type V liquid Waste processing facility registered with the state.

What methods would the facility use or require for preventing litter or spills, and for cleanup of litter and spills?

We will utilize portable collection buckets under all receiving connections (cam locks) to prevent spills at connections. A concrete pad where the trucks unload will also be able to catch spills and will be cleaned up via vacuum truck. Spills will be disposed of into the beginning head works of the facility. A walk through of the receiving area will be monitored periodically throughout the day. The Facility will be walked daily for spills and wind-blown waste.

Plain Language Summary- Spanish

Comisión de Calidad Ambiental de Texas

Resumen en lenguaje sencillo de la solicitud de permiso municipal de residuos sólidos o de modificación del permiso

Los solicitantes están obligados por las normas de notificación pública del Título 30 del Código Administrativo de Texas, Capítulo 39, Sección 39.405(k)[1] a proporcionar este resumen de una solicitud.

A. Objetivo de la instalación propuesta

Austin County Waste Solutions ("Instalación") será operada como una Instalación de Procesamiento de Residuos Líquidos Tipo-V, recibiendo solo sépticos domésticos y se procesará y preparará antes de enviarlo para su eliminación en una Unidad de Campo Benifecial (BFU) autorizada por TCEQ.

B. Información sobre el solicitante

Nombre: Blake Giese

Tipo de solicitante: Planta de Procesamiento de Residuos Líquidos RSU Tipo V

Nombre de la instalación: Austin County Waste Solutions

Número de solicitud de permiso:

Número de cliente (CN): 606353829

Número de referencia de la entidad regulada (RN): 112143748

C. Ubicación de la instalación propuesta

Dirección del establecimiento (o descripción de la ubicación del sitio si no hay dirección):

3655 Woodley Lane
Bellville, Texas 77418

Enlace al mapa de ubicación de las instalaciones en TCEQ Location Mapper[2]:

https://arcg.is/SqvmP

D. Información sobre el funcionamiento de las instalaciones

¿Qué tipos de residuos se recibirían?

La instalación solo recibirá septaje doméstico. La instalación recuperará alrededor del .5% de los sólidos, la basura / escombros serán cribados, cargados en un contenedor de basura para su eliminación en un vertedero aprobado fuera del sitio con permiso TCEQ a menos de 60 millas de la instalación. El otro 99.5% del séptico doméstico entrante se procesará y se enviará a un sitio de BFU autorizado por TCEQ.

¿De qué zona geográfica procederían los residuos?

La fuente de estos flujos de desechos provendrá de sistemas sépticos residenciales y comerciales con los condados del área de Houston-Galveston y el Consejo de Gobiernos del Valle de Brazos.

[1] www.tceq.texas.gov/goto/view-30tac
[2] www.tceq.texas.gov/gis/hb-610-viewer

¿Qué días y horas funcionará la instalación?

La instalación recibirá y procesará los residuos como máximo las 24 horas del día, los 7 días de la semana. El horario de atención puede variar ligeramente en funci

¿A qué ritmo se aceptarían los residuos?

El volumen diario máximo de residuos entrantes es de aproximadamente 42,000 galones.

¿Cómo se gestionarían los residuos?

En general, los residuos se recibirán en el lado oeste suroeste de la instalación a través de una manguera. El líquido de la pantalla continuará y los escombros sólidos se cargarán en un contenedor de basura para enviarlos al vertedero aprobado por TCEQ. El líquido continuará moviéndose a través del proceso para mezclarse con cal a pH 12 durante más de 30 minutos, luego se bombeará al sitio de BFU aprobado por TCEQ.

E. Métodos de control de la contaminación

¿Qué métodos utilizará la instalación para contener los residuos y los olores, y para controlar las emisiones?

La capacidad de diseño de la instalación de procesamiento de residuos líquidos no se excederá durante la operación. La Instalación no acumulará desechos líquidos en cantidades que no puedan ser procesadas en un tiempo tal que evite la creación de condiciones adversas como olores, reproducción de insectos o refugio de otros vectores. Si ocurren tales eventos, no se recibirán residuos líquidos adicionales hasta que se procese el residuo actual. En el caso de que la Instalación quede inoperativa por períodos superiores a 24 horas, la Instalación restringirá la recepción de desechos líquidos a la Instalación y el flujo de desechos entrante se desviará a otra Instalación de Procesamiento de Desechos Líquidos Tipo V registrada en el e

¿Qué métodos utilizaría o exigiría la instalación para evitar la basura o los derrames, y para la limpieza de la basura y los derrames?

Utilizaremos cubos de recolección portátiles debajo de todas las conexiones de recepción (camlocks) para evitar derrames en las conexiones. Una plataforma de hormigón donde los camiones descargan también podrá recoger los derrames y se limpiará con un camión de vacío. Los derrames se eliminarán en las obras iniciales de la instalación. Un recorrido por el área de recepción será monitoreado periódicamente diariamente. La instalación será recorrida diariamente para detectar otros derrames y desechos arrastrados por el viento.

TCEQ Public Involvement Plan Form (Form- 20960)

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

☒ New Permit or Registration Application

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

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

Section 2. Secondary Screening

☒ Requires public notice,

☐ Considered to have significant public interest, **and**

☒ Located within any of the following geographical locations:

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

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

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

The MSW property boundaries and the 1/4 mile notifications are all within the Woodley Ranch property. Being all on Ranch property, it seems to 7R Solutions, there is no significant public impact.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

(City)

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

Regulatory Checklist

Administrative and Technical Review Checklist for Municipal Solid Waste (MSW) Permits, Registrations and Amendments

This checklist is designed to provide guidance for the Municipal Solid Waste (MSW) rules found in Title 30 Texas Administrative Code (30 TAC) Chapter 330, for Type I, IV and V registration, permit, and permit amendment applications. Areas of the checklist that are shaded in gray are for information purposes only.

Please fill out application information before selecting and filling out a checklist.

Applicant Information

Company:	7 R Soultions, LLC		
First name:	Blake	Last name	Giese
Applicant Title:		Prefix:	Mr
Street Address:	3655 Woodley Ln		
City:	Bellville	State: TX	Zip code: 77418
Applicant E-Mail:	[redacted]		

Consultant Information

First name:		Last name:	
Consultant Title:		Prefix:	
Consultant Firm:			
Consultant Address:			
City:		State:	Zip code:
Consultant E-Mail:			

Application Information

Facility Name:	Austin County Waste Solutions		
Application Date	12/24/2024		
CN:	606353829	MSW ID:	
RN:	112143748	Authorization Type:	Registration
County:	Austin	Application Type:	New Registration

ID	App. Part	Checklist Item	Item Type	Citation	Complete?	Location	Applicant Comments	Application Area
1	General	Submit all four parts of the permit, permit amendment or registration application	Required	330.57(a) & (b)	Yes	Registration Application	Registration Application submittal of one original and three copies in a 3- ring binders	Format-Application
2	General	Submit TCEQ Part I Form (Form No. 0650)	Required	330.57(c)(1)	Yes	Part I, Part I Application Form		Forms
8	General	Part II of the application contains location and coordination information.	Informational	330.57(c)(2)				Format-Application
9	General	Part III of the application contains design information	Informational	330.57(c)(3)				Format-Application
10	General	Part IV of the application contains the site operating plan	Informational	330.57(c)(4)				Format-Application
11	General	The application should address all aspects of application and design requirements, even to show why not applicable (N/A)	Informational	330.57(d)				Format-Application
12	General	Submit data of sufficient completeness, accuracy and clarity	Required	330.57(d)	Yes	Registration Application		Format-Application
13	General	Failure to provide complete information may be cause for ED to return application.	Informational	330.57(d)				Format-Application
14	General	Provide 4 Copies for Initial Submittal (1 original and 3 copies)	Required	330.57(e)	Yes	Registration Application	Registration Application submittal of one original and three copies in a 3- ring binders	Format-Application
15	General	Provide 4 copies for NOD Responses including 1 copy with marked revisions (redline/strikeout)	Required	330.57(g)(6)	Yes	NA- This is a initial submittal, with no NOD's at this time	NA- This is a initial submittal, with no NOD's at this time	Format-Application
16	General	Application must be prepared in accordance with Texas Occupations Code, Texas Engineering Practice Act, Chapter 1001 and Texas Geoscience Practice Act, Chapter 1002	Informational	330.57(f)				Format-Application
17	General	Provide a PE signature, seal and date on the title page of each bound engineering report or individual engineering plan, and on each engineering drawing	Required	330.57(f)(1)	Yes	PE signature, seal and date on all title pages, Table of contents, and drawings		Format-Application
18	General	Provide PG sign, seal, & date for applicable items	Required	330.57(f)(2)	Yes	NA- No PG applicable items		Format-Application
19	General	Applications that are not sealed are incomplete and shall be returned	Informational	330.57(f)(3)				Format-Application
20	General	Submit the application in three ring-binders	Required	330.57(g)(1)	Yes	Registration Application submittal of one original and three copies in a 3- ring binders		Format-Application
21	General	Submit Title Page with Name, Application No., Site Operator Name, Operator Name (if applicable), Location, Date Prepared and Revision Date(s)	Required	330.57(g)(2)	Yes	Included in Registration Application		Format-Application
22	General	Provide Table of Contents with PE seal	Required	330.57(g)(3)	Yes	Included in Registration Application		Format-Application
23	General	Use 8.5x11 inch or 11x17 paper (folded to 8.5x11 inch)	Required	330.57(g)(4)	Yes	Included in Registration Application		Format-Application
24	General	Provide pages with date (original and revised) and sequential page numbers	Required	330.57(g)(5)	Yes	Included in Registration Application		Format-Application
25	General	Provide legible drawings/maps	Required	330.57(h)(1)	Yes	Included in Registration Application		Format-Maps/Drawings
26	General	Provide color coding on all figures and drawings that is legible and distinct after copying in black & white	Required	330.57(h)(2)	Yes	Included in Registration Application		Format-Maps/Drawings
27	General	Provide a standard engineering scale on each figure or drawing	Required	330.57(h)(3)	Yes	Included in Registration Application		Format-Maps/Drawings
28	General	Provide a dated title block on each figure or drawing	Required	330.57(h)(4)(A)	Yes	Included in Registration Application		Format-Maps/Drawings
29	General	Provide a bar scale at least 1 inch on all figures and drawings	Required	330.57(h)(4)(B)	Yes	Included in Registration Application		Format-Maps/Drawings
30	General	Provide a revision block on all figures and drawings	Required	330.57(h)(4)(C)	Yes	This is initial submittal, any revisions will include revision block.		Format-Maps/Drawings
31	General	Provide a PE or PG seal ,if required, on all figures and drawings	Required	330.57(h)(4)(D)	Yes	Included in Registration Application		Format-Maps/Drawings
32	General	Include drawing number and a page number on each drawing and figure	Required	330.57(h)(4)(E)	Yes	Included in Registration Application		Format-Maps/Drawings
33	General	Include a north arrow on each map or plan drawing	Required	330.57(h)(5)(A)	Yes	Included in Registration Application		Format-Maps/Drawings
34	General	Include a reference to base map & date of most current base map used, if the map is based upon another map	Required	330.57(h)(5)(B)	Yes	Included in Registration Application		Format-Maps/Drawings
35	General	Include a legend on each map or plan drawing	Required	330.57(h)(5)(C)	Yes	Included in Registration Application		Format-Maps/Drawings
36	General	Provide match lines and section lines that reference the drawing where the match or section is shown.	Required	330.57(h)(6)	Yes	Included in Registration Application		Format-Maps/Drawings

45	General	Acknowledge that the construction and operation of the waste management facility shall comply with Subchapter U of 30 TAC Chapter 330 (relating to Standard Air Permits for Municipal Solid Waste Landfill Facilities and Transfer Stations) or other approved air authorizations. Owners or operators of these types of facilities should consult with the Air Permits Division on or before the date that the municipal solid waste application is filed with the executive director	Acknowledgement	330.55(a)	Yes	Part I Report- Section 2.3		Other Authorizations
46	General	Acknowledge that all liquids resulting from the operation of solid waste facilities shall be disposed of in a manner that will not cause surface water or groundwater pollution. Facilities shall provide for the treatment of wastewaters resulting from waste management activities and from cleaning and washing. Owners or operators shall ensure that storm water and wastewater management is in compliance with the regulations of the commission.	Acknowledgement	330.55(a)	Yes	Part I Report- Section 2.3		Other Authorizations
49	General	It is the responsibility of an owner or operator to possess or acquire a sufficient interest in or right to the use of the surface estate of the property for which a permit is issued, including the access route. The granting of a permit does neither convey any property rights or interest in either real or personal property; nor does it authorize any injury to private property, invasion of personal rights, or impairment of previous contract rights; nor any infringement of federal, state, or local laws or regulations outside the scope of the authority under which a permit is issued	Informational	330.67(a)				General Information
51	General	Executive director approval or a permit will be required if any on-site operations subsequent to closure of a landfill facility involve disturbing the cover or liner of the landfill.	Informational	330.67(c)				General Information
52	General	It is the responsibility of an owner or operator to obtain any permits or approvals that may be required by local agencies such as for building construction, discharge of uncontaminated waters into ditches under control of a drainage district, discharge of effluent into a local sanitary sewer system, etc.	Informational	330.67(d)				General Information
58	General	If at any time during the life of the facility the owner or operator becomes aware of any condition in the permit or registration that necessitates a change to accommodate new technology or improved methods or that makes it impractical to keep the facility in compliance, the owner or operator shall submit to the executive director requested changes to the permit or registration in accordance with 30 TAC §305.62 or §305.70 and must be approved prior to their implementation	Informational	330.73(a)				General Information
60	General	The owner or operator shall obtain and submit certification by a Texas-licensed professional engineer that the facility has been constructed as designed in accordance with the issued registration or permit and in general compliance with the regulations prior to initial operation. The owner or operator shall maintain that certification on site for inspection	Informational	330.73(d)				General Information
61	General	After all initial construction activity has been completed and prior to accepting any solid waste, the owner or operator shall contact the executive director and region office in writing and request a pre-opening inspection. A pre-opening inspection shall be conducted by the executive director within 14 days of notification by the owner or operator that all construction activities have been completed, accompanied by representatives of the owner or operator and the engineer	Informational	330.73(e)				General Information

62	General	The MSW facility shall not accept solid waste until the executive director has confirmed in writing that all applicable submissions required by the permit or registration and this chapter have been received and found to be acceptable, and that construction is in compliance with the permit or registration and the approved site development plan. If the executive director has not provided a written or verbal response within 14 days of completion of the pre-opening inspection, the facility shall be considered approved for acceptance of waste	Informational	330.73(f)				General Information
63	General	Identify if the Regulated Entity or Customer has any delinquent fees	Required	330.59(h), 330.671, 330.675	Yes	Part I Report- Section 2.4		Delinquent Fees
64	Part I	Provide a copy of the application, including all revisions and supplements on a publicly accessible Web site	Required in Part I Form	330.57(i)(1)				Part I Form
65	Part I	Provide the commission with the Web address link for the application materials	Required in Part I Form	330.57(i)(1)				Part I Form
66	Part I	Signature Page must have signature and notarization	Required in Part I Form	330.59(a)(1)				Part I Form
67	Part I	Applicant's name, mailing address & phone no.	Required in Part I Form	330.59(a)(1)				Part I Form
68	Part I	Description of the nature of the business	Required in Part I Form	330.59(a)(1)				Part I Form
69	Part I	Activities that require a permit (conducted at the facility)	Required in Part I Form	330.59(a)(1)				Part I Form
70	Part I	Location description, facility name & mailing address	Required in Part I Form	330.59(b)(1); 305.45(a)(1)				Part I Form
71	Part I	Access routes	Required in Part I Form	330.59(b)(2)				Part I Form
72	Part I	Lat. & Long. of the facility	Required in Part I Form	330.59(b)(3)				Part I Form
73	Part I	Lat. & Long. depicted	Required in Part I Form	330.59(c)(1)(A)				Part I Form
74	Part I	All maps should show the facility location	Required in Part I Form	305.45(a)(6)				Part I Form
76	Part I	All maps should show other structures or locations regarding the regulated facility and associated activities	Required in Part I Form	305.45(a)(6)				Part I Form
77	Part I	At least one map with a scale not less than 1 inch = 1 mile	Required in Part I Form	305.45(a)(6)				Part I Form
78	Part I	Permit/Registration boundary and 1 mile beyond to show the following:	Required in Part I Form	330.59(c)(1)(B)				Part I Form
79	Part I	Wells, springs, surface water bodies	Required in Part I Form	305.45(a)(6)(A)				Part I Form
80	Part I	Character of adjacent land including public roads, towns, development as residential, commercial, agricultural, etc.	Required in Part I Form	305.45(a)(6)(B)				Part I Form
81	Part I	Location of any waste disposal activities conducted on the tract but not included in the application	Required in Part I Form	305.45(a)(6)(C)				Part I Form
82	Part I	General location map, TXDOT, scale of ½ inch = 1 mile and most current map used	Required in Part I Form	330.59(c)(2)				Part I Form
83	Part I	Land Ownership Map, within ¼ mile & mineral interest ownership	Required in Part I Form	330.59(c)(3)(A)				Part I Form
84	Part I	Land Ownership List both in hardcopy and electronic form (alternatively pre-printed mailing labels)	Required in Part I Form	330.59(c)(3)(B)				Part I Form
85	Part I	Legal description of property or other documentation of ownership	Required in Part I Form	330.59(d)(1)(A)				Part I Form
86	Part I	If Platted; plat record with county, book, page number and acreage information	Required in Part I Form	330.59(d)(1)(B)				Part I Form
87	Part I	Signed, sealed and dated surveyed metes and bounds description of the facility	Required in Part I Form	330.59(d)(1)(C)				Part I Form
88	Part I	Signed & sealed metes & bounds drawing	Required in Part I Form	330.59(d)(1)(D)				Part I Form
89	Part I	Signed property owner affidavit	Required in Part I Form	330.59(d)(2)				Part I Form
90	Part I	Acknowledge that State may hold owner responsible	Required in Part I Form	330.59(d)(2)(A)				Part I Form
92	Part I	Acknowledge that the owner & State shall have access during life of the facility and during closure	Required in Part I Form	330.59(d)(2)(C)				Part I Form
94	Part I	Verified legal status of applicant and list of persons with 20% or more ownership in the facility	Required in Part I Form	330.59(e)				Part I Form
95	Part I	Ownership status as federal, state, private, public, or other	Required in Part I Form	305.45(a)(2)				Part I Form
96	Part I	List of all Texas solid waste sites that the owner or operator has owned or operated within the last ten years. The site name, site type, permit or registration number, county, and dates of operation shall also be submitted.	Required in Part I Form	330.59(f)(1)				Part I Form

97	Part I	List of all solid waste sites in all states, territories, or countries in which the owner or operator has a direct financial interest. The type of site shall be identified by location, operating dates, name, and address of the regulatory agency, and the name under which the site was operated.	Required in Part I Form	330.59(f)(2)				Part I Form
98	Part I	Shall employ a licensed solid waste facility supervisor before operating	Required in Part I Form	330.59(f)(3)				Part I Form
99	Part I	Names of principals & supervisors owner or operators organization together with previous affiliations with other organizations involved with solid waste activities	Required in Part I Form	330.59(f)(4)				Part I Form
101	Part I	Signatory meets 305.44, documentation of delegated signatory authority	Required in Part I Form	330.59(g)				Part I Form
102	Part I	Corporations – signed by a corporate officer	Required in Part I Form					Part I Form
103	Part I	Partnership or proprietorship –signed by a general partner or proprietor	Required in Part I Form					Part I Form
104	Part I	Municipality, public agency –signed by an executive officer or elected official	Required in Part I Form					Part I Form
105	Part I	Signatory certification statement	Required in Part I Form					Part I Form
106	Part I	Hazardous Waste Management	Required in Part I Form	305.45(a)(7)(A)				Part I Form
107	Part I	Underground Injection Control	Required in Part I Form	305.45(a)(7)(B)				Part I Form
108	Part I	NPDES	Required in Part I Form	305.45(a)(7)(C)				Part I Form
109	Part I	Prevention of Significant Deterioration	Required in Part I Form	305.45(a)(7)(D)				Part I Form
110	Part I	Nonattainment Program	Required in Part I Form	305.45(a)(7)(E)				Part I Form
111	Part I	NESHAPS	Required in Part I Form	305.45(a)(7)(F)				Part I Form
112	Part I	Ocean dumping permit	Required in Part I Form	305.45(a)(7)(G)				Part I Form
113	Part I	Dredge & fill permit	Required in Part I Form	305.45(a)(7)(H)				Part I Form
114	Part I	Licenses under the TRCA	Required in Part I Form	305.45(a)(7)(I)				Part I Form
115	Part I	Other environmental permits	Required in Part I Form	305.45(a)(7)(K)				Part I Form
116	Part I	Permit Application Fee is $2050.00	Required in Part I Form	THSC 361.0675				Part I Form
117	Part I	A copy of the payment receipt to the MSW Permits Section, if paid by check.	Required in Part I Form	330.59(h)(1)				Part I Form
118	Part I	Prepared by PE, PG, or qualified person	Required in Part I Form	330.57(f)				Part I Form
119	Part I	Description of facility & systems	Required in Part I Form	305.45(a)(8)(A)				Part I Form
120	Part I	Volume, average & max rate of disposal for each place of disposal	Required in Part I Form	305.45(a)(8)(B)(i)				Part I Form
121	Part I	Physical, chemical, thermal, organic, bacteriological, radiological properties of waste	Required in Part I Form	305.45(a)(8)(B)(ii)				Part I Form
122	Part I	Other reasonable information	Required in Part I Form	305.45(a)(8)(C)				Part I Form
123	Part II	Provide the sources and characteristics of all waste to be accepted.	Required	330.61(b)(1)	Yes	Part II Report- Section 1.1		Waste Acceptance Plan
124	Part II	Specify parametric limitations of each type of waste to be managed by the facility	Required	330.61(b)(1)	Yes	Part II Report- Section 1.1		Waste Acceptance Plan
125	Part II	Provide a brief description of the general sources and generation areas contributing wastes to the facility. This description shall include an estimate of the population or population equivalent served by the facility	Required	330.61(b)(1)(A)	Yes	Part II Report- Section 1.2		Waste Acceptance Plan
126	Part II	Provide a descriptive narrative that describes the percentage of incoming waste that must be recovered and its intended use	Required if Requested	330.61(b)(1)(A)	Yes	Information will be provided if requested		Waste Acceptance Plan
130	Part II	Provide any site specific conditions that require special design considerations & possible mitigation of conditions identified under sections (h) – (o)	Required	330.61(a)	Yes	Part II Report- Section 2		Facility Impact
131	Part II	Provide information regarding the likely impacts of the facility on cities, communities, groups of property owners, or individuals.	Required	330.61(h)	Yes	Part II Report- Section 2.2		Facility Impact
132	Part II	Provide information on the compatibility of the facility with surrounding land use, zoning in the vicinity, community growth patterns, and other factors associated with the public interest.	Required	330.61(h)	Yes	Part II Report- Section 2.2		Facility Impact
133	Part II	Provide information on the character of surrounding land use within one mile	Required	330.61(h)(2)	Yes	Part II Report- Section 2.2.2		Existing Conditions
134	Part II	Provide information about the growth trends within five miles & directions of development	Required	330.61(h)(3)	Yes	Part II Report- Section 2.2.3		Existing Conditions

135	Part II	Indicate the proximity to residences & items listed in 330.61(c)(4) & (12), ~ no. of residences & commercial establishments including direct & distance to nearest, population density, all within one mile.	Required	330.61(h)(4)	Yes	Part II Report- Section 2.2.4		Existing Conditions
136	Part II	Indicate all wells and the well density within 500 ft.	Required	330.61(h)(5)	Yes	Part II Report- Section 2.2.5		Existing Conditions
137	Part II	Provide any other information requested by the ED	Required	330.61(h)(6)	Yes	Part II Report- Section 2.2.6		Existing Conditions
138	Part II	Provide data on availability & adequacy of access roads	Required	330.61(i)(1)	Yes	Part II Report- Section 2.3.1		Transportation
139	Part II	Provide the existing & expected traffic volumes on access roads within one mile of the facility during the expected life of the facility	Required	330.61(i)(2)	Yes	Part II Report- Section 2.3.2		Transportation
140	Part II	Provide an estimate of traffic volume generated by the facility on access roads within one mile of the facility	Required	330.61(i)(3)	Yes	Part II Report- Section 2.3.3		Transportation
141	Part II	Provide documentation of coordination for roadway improvements and documentation of coordination with TXDOT for traffic and location restrictions	Required	330.61(i)(4)	Yes	Part II Report- Attachment IIC-1		Transportation
146	Part II	Provide notice to the airport & the FAA for MSW units within 6 miles of a small airport or within 5 miles of a large commercial airport.	Required	330.545(b)	Yes	Part II Report- Section 2.4		Transportation
148	Part II	Discuss in general terms the geology and soils of the proposed site	Required	330.61(j)(1)	Yes	Part II Report- Section 2.5		Geology
152	Part II	Provide data on site specific groundwater conditions	Required	330.61(k)(1)	Yes	Part II Report- Section 2.6.1		Groundwater and Surface Water
153	Part II	Provide data on surface water at or near the site	Required	330.61(k)(2)	Yes	Part II Report- Section 2.6.2		Groundwater and Surface Water
154	Part II	Provide information on how facility will comply with applicable Texas Pollutant Discharge Elimination System (TPDES) storm water permitting requirements and the Clean Water Act, §402, as amended.. This may include the information requires by 30 TAC 330.61(k)(3)(A) & (B)	Required	330.61(k)(3)	Yes	.Part II Report- Section 2.6.3		Groundwater and Surface Water
155	Part II	As applicable, provide a certification statement indicating the owner/operator will obtain the appropriate TPDES permit coverage when required	Required	330.61(k)(3)(A)	Yes	Part II Report- Section 2.6.4		Groundwater and Surface Water
156	Part II	As applicable, provide a copy of permit number under an individual wastewater permit	Required	330.61(k)(3)(B)	Yes	Part II Report- Section 2.6.4		Groundwater and Surface Water
157	Part II	Provide the location of any water wells.	Required	330.61(l)(1)	Yes	Part II Report- Section 2.2.5.1		Abandoned Oil and Water Wells
158	Part II	All water supply wells must be outside monitoring system or approved in the permit	Informational	330.61(l)(1)				Abandoned Oil and Water Wells
160	Part II	Provide the location of oil & gas wells production wells may remain if identified & don't disrupt operations	Required	330.61(l)(2)	Yes	Part II Report- Section 2.2.5.2		Abandoned Oil and Water Wells
161	Part II	Production wells may remain if identified & they do not disrupt facility operations	Informational	330.61(l)(2)				Abandoned Oil and Water Wells
162	Part II	Indicate if the facility is within the 100yr floodplain. If facility within a floodplain see location restrictions in 30 TAC Chapter 330 Subchapter M	Required	330.61(m)(1)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
165	Part II	Acknowledge that the construction and operation of the facility shall not result in the destruction or adverse modification of the critical habitat or cause or contribute to the taking of endangered or threatened species.	Acknowledgement	330.61(n)(1)	Yes	Part II Report- Section 2.9		Endangered Species
165	Part II	Acknowledge that the construction and operation of the facility shall not result in the destruction or adverse modification of the critical habitat or cause or contribute to the taking of endangered or threatened species. If the WWTP permit contains a coordination and a review letter from the United States Fish and Wildlife Service and the Texas Parks and Wildlife Department, the owner or operator shall submit these documents as an attachment/appendix to the registration application and by referencing where this information is addressed in the WWTP Permit and/or permit application.	Acknowledgement	330.61(n)(1)	Yes	Part II Report- Section 2.9.1		Endangered Species
166	Part II	Provide a demonstration of whether facility is located within species range and provide a biological assessment.	Required	330.61(n)(2)	Yes	Part II Report- Attachments IIE-1, IIE-2		Endangered Species

166	Part II	Provide a demonstration of whether facility is located within species range and provide a biological assessment. If the WWTP permit contains a coordination and a review letter from the United States Fish and Wildlife Service and the Texas Parks and Wildlife Department, the owner or operator shall submit these documents as an attachment/appendix to the registration application and by referencing where this information is addressed in the WWTP Permit and/or permit application.	Required	330.61(n)(2)	Yes	Part II Report- Section 2.9.1		Endangered Species
167	Part II	Provide documentation of compliance with Natural Resource Code, Chapter 191 (Texas Antiquities Code)	Required	330.61(o)	Yes	Part II Report- Section 2.10		Historical Commission
167	Part II	Provide documentation of compliance with Natural Resource Code, Chapter 191 (Texas Antiquities Code). If the WWTP permit contains coordination and a review letter from the Texas Historical Commission, the owner or operator shall submit these documents as an attachment/appendix to the registration application and by referencing where this information is addressed in the WWTP Permit and/or permit application.	Required	330.61(o)	Yes	Part II Report- Attachment IIA-1		Historical Commission
168	Part II	Provide documentation that Parts I and II of the application were submitted for review to the applicable council of governments for compliance with regional solid waste plans.	Required	330.61(p)	Yes	Part II Report- Attachment IIF		COG Review
169	Part II	Acknowledgement that the owner or operator requested a review letter from any local government, as appropriate for compliance with local solid waste plans. A review letter is not a prerequisite to a final determination on a permit or registration application.	Acknowledgement	330.61(p)	Yes	Part II Report- Section 2.11		COG Review
170	Part II	Provide a constructed map showing boundary, zoning, & land use within one mile including info from 330.61(c)(4), (5), & (10) (schools, hospitals, etc.)	Required	330.61(g)	Yes	Part II Report- Section 2.2.2		Maps/Drawings
171	Part II	Provide the prevailing wind direction with a wind rose.	Required	330.61(c)(1)	Yes	Part II Report- Figure II-4		Maps/Drawings
172	Part II	Provide the location of all known water wells within 500 feet of the proposed permit boundary with the state well numbering system designation for Water Development Board "located wells".	Required	330.61(c)(2)	Yes	Part II Report- Figure II-5		Maps/Drawings
173	Part II	Provide the location of all structures and inhabitable buildings within 500 feet of the facility	Required	330.61(c)(3)	Yes	Part II Report- Figure II-5		Maps/Drawings
174	Part II	Provide the location of all schools, licensed day-cares, churches, hospitals, cemeteries, ponds, lakes, residential, commercial, & recreational areas within one mile of the facility	Required	330.61(c)(4)	Yes	Part II Report- Section 2.2.2		Maps/Drawings
175	Part II	Provide the location and surface type of roads used for access within one mile of the facility	Required	330.61(c)(5)	Yes	Part II Report- Section 2.3.1 & Figure II-8		Maps/Drawings
176	Part II	Provide the latitude & longitude of the facility	Required	330.61(c)(6)	Yes	Part II Report- Figure II-1		Maps/Drawings
177	Part II	Provide the location of all area streams	Required	330.61(c)(7)	Yes	Part II Report- Figure II-2A		Maps/Drawings
178	Part II	Provide the location of all airports within six miles	Required	330.61(c)(8)	Yes	Part I Report- Figure I-1		Maps/Drawings
179	Part II	Indicate the property boundary of facility	Required	330.61(c)(9)	Yes	Part II Report- Figure II-1		Maps/Drawings
180	Part II	Indicate all drainage, pipeline, and utility easements within & adjacent to the facility	Required	330.61(c)(10)	Yes	Part 2 Report- Figure II-10		Maps/Drawings
181	Part II	Provide the location of all access control features	Required	330.61(c)(11)	Yes	Part II Report- Figure II-1		Maps/Drawings
182	Part II	Provide the location of all archaeological sites, historical sites, and sites with an aesthetic quality adjacent to the facility	Required	330.61(c)(12)	Yes	Part II Report- Figure II-2		Maps/Drawings
183	Part II	Provide a facility layout map	Required	330.61(d)	Yes	Part 2 Report Figure II-14		Maps/Drawings
184	Part II	A set of maps may be provided	Informational	330.61(d)				Maps/Drawings
185	Part II	Provide an outline of solid waste management units	Required	330.61(d)(1)	Yes	Part II Report- Page 35		Maps/Drawings
186	Part II	Provide the location of interior roads	Required	330.61(d)(2)	Yes	Part II Report- Figure II-1		Maps/Drawings
187	Part II	Indicate the location of monitor wells	Required	330.61(d)(3)	Yes	Part II Report- Figure II-5		Maps/Drawings
188	Part II	Provide the location of all facility buildings	Required	330.61(d)(4)	Yes	Part II Report- Figure II-1		Maps/Drawings
189	Part II	Provide notes on sequence of development	Required	330.61(d)(5)	Yes	Part 2 Report Section 2.1.2		Maps/Drawings
190	Part II	Indicate the location of all facility fencing	Required	330.61(d)(6)	Yes	Part 2 Report Figure II-14		Maps/Drawings
192	Part II	Indicate the location of site entrance roads	Required	330.61(d)(8)	Yes	Part II Report- Figure II-1		Maps/Drawings

198	Part II	Provide a general topographic maps: USGS 7.5 minute or equivalent one map at scale 1 in. = 2,000 ft.	Required	330.61(e)	Yes	Part II Report- Figure II-2A		Maps/Drawings
199	Part II	Provide Aerial Photograph(s) that are at least 9 in. by 9 in. at scale range of one inch = 1,667-3,334 ft. that covers an area at least one mile in radius of the site. Facility boundary and fill areas (as applicable) must be shown.	Required	330.61(f)	Yes	Part II Report- Figure II-3		Maps/Drawings
200	Part II	A series of photos showing growth trends may be used	Informational	330.61(f)(2)				Maps/Drawings
201	Part II	All submitted prints & photocopies must be legible	Informational	330.61(f)(3)				Maps/Drawings
202	Part II	Provide zoning map within two miles and a copy of any nonconforming use or special permit required for the facility	Required	330.61(h)(1)	Yes	Part II Report- Section 2.2.1 & Figure II-11		Maps/Drawings
210	Part II	No solid waste disposal operations are permitted in the 100yr. floodway	Informational	330.547(a)				Floodplains and Wetlands
211	Part II	Demonstrate that, a facility located in 100 year flood plains, does not restrict the flow of the 100 yr. flood, reduce temporary storage capacity, or result in washout of solid waste so as to pose a hazard to human health and the environment	Required	330.547(b)	Yes	Part II Report- Figure II-8		Floodplains and Wetlands
212	Part II	Demonstrate that storage and processing facilities are located outside of the 100 year floodplain.	Required	330.547(c)	Yes	Part II Report- Figure II-8		Floodplains and Wetlands
213	Part II	For storage and processing facilities located within the 100 year floodplain, please provide a demonstration that the facility is designed to prevent washout during a 100 year storm event, or a conditional letter of map amendment from the Federal Emergency Management Administration administrator	Required	330.547(c)	Yes	Part II Report- Figure II-8		Floodplains and Wetlands
214	Part II	Acknowledge if the facility will be located in wetlands.	Acknowledgement	330.553(a) & (b)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
215	Part II	Demonstrate, if located within wetlands, that there is no practicable alternative location	Required	330.553(b)(1)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
216	Part II	Acknowledge that the facility's construction & operations shall not cause or contribute to violations of state water quality standards, violation of any applicable toxic effluent standard or prohibition under the Clean Water Act §307; jeopardize the continued existence of endangered or threatened species or result in the destruction or adverse modification of a critical habitat, protected under the Endangered Species Act of 1973, or violate any requirement under the Marine protection, Research, & Sanctuaries Act	Acknowledgement	330.553(b)(2)(A) - (D)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
217	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing erosion, stability, & migration potential of native wetland soils, muds, and deposits used to support the landfill unit	Required	330.553(b)(3)(A)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
218	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing erosion, stability, & migration potential of dredged and fill materials used to support the landfill	Required	330.553(b)(3)(B)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
219	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing the volume and chemical nature of the waste managed in the landfill unit	Required	330.553(b)(3)(C)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
220	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing the impacts on fish, wildlife, and other aquatic resources and their habitat for the release of solid waste	Required	330.553(b)(3)(D)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
221	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing the potential effects of catastrophic release of waste to the wetlands and the resulting impacts on the environment	Required	330.553(b)(3)(E)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
222	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing any additional factors, as necessary, to demonstrate that ecological resources in the wetland are sufficiently protected	Required	330.553(b)(3)(F)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands
223	Part II	Sufficient information shall be provided to the ED to allow a reasonable determination to be made with respect to the demonstrations cited in 30 TAC §330.553(b)	Informational	330.553(b)(5)				Floodplains and Wetlands
224	Part II	Provide the steps taken to achieve no net loss of wetlands	Required	330.553(b)(4)	Yes	Part II Report- Section 2.8		Floodplains and Wetlands

225	Part II	Acknowledge that the operation of this facility shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species	Acknowledgement	330.551(a)	Yes	Part II Report- Section 2.9		Endangered Species
226	Part II	The term "Harassing" means; An intentional or negligent act or omission that creates the likelihood of injury to wildlife	Informational	330.551(b)(1)				Endangered Species
227	Part II	The term "Harming" means; An act of omission that actually injures or kills wildlife, including acts that annoy it to such an extent as to significantly disrupt essential behavioral patterns	Informational	330.551(b)(2)				Endangered Species
228	Part II	The term "Taking" means; collecting an endangered or threatened species or attempting to engage in such conduct	Informational	330.551(b)(3)				Endangered Species
229	Part II	Acknowledge that no solid waste unloading, storage, disposal, or processing operations shall occur within any easement, buffer zone, or right-of-way that crosses the facility	Acknowledgement	330.543(a)	Yes	Part II Report- Section 2.12		Easements and Buffer Zone
231	Part II	Demonstrate that a 50 ft. buffer zone will be provided and maintained between feedstock or final product storage areas; solid waste storage, processing, Type IAE landfill units, Type IV landfill units, and Type IVAE landfill units within and adjacent to the facility boundary on property owned or controlled by the owner or operator	Required	330.543(b)(1)	Yes	Part II Report- Section 2.12		Easements and Buffer Zone
268	Part II	Submit information for on-site local geologic or geomorphologic features	Required	330.559(2)	Yes	Part II Report- Section 2.5.1		Geology
269	Part II	Identify local human-made features or events	Required	330.559(3)	Yes	Part II Report- Section 2.5.1		Geology
270	Part III	Describe facility access control features	Required	330.63(b)(1)	Yes	Part III- Section 2.1.1		General Facility Design
271	Part III	Submit a process design for the facility [that includes items 330.63(b)(2)(A) through 330.63(b)(2)(I)]	Required	330.63(b)(2)	Yes	Part III- Figure III-3		General Facility Design
272	Part III	Submit a flow diagram(s) to describe the storage, processing, and disposal sequences for each type of waste and/or feedstock/recyclable	Required	330.63(b)(2)(A)	Yes	Part III- Figure III-4		General Facility Design
273	Part III	Submit a schematic view drawing(s) showing phases for collection, separation and processing/disposal of each type of waste and/or feedstock/recyclable material	Required	330.63(b)(2)(B)	Yes	Part III- Figure III-4		General Facility Design
274	Part III	Provide ventilation & odor control measures for each unit	Required	330.63(b)(2)(C)	Yes	Part III Report- Section 2.2.3		General Facility Design
275	Part III	Provide construction details of storage, processing units & components, dimensions, capacity, materials used, etc.	Required	330.63(b)(2)(D)	Yes	Part III Report- Section 2.2.4		General Facility Design
276	Part III	Provide performance data for all storage and processing units and ancillary equipment	Required	330.63(b)(2)(D)	Yes	Part III Report- Section 2.2.4		General Facility Design
277	Part III	Provide construction details of slab & subsurface supports	Required	330.63(b)(2)(E)	Yes	Part III Report- Section 2.2.4		General Facility Design
278	Part III	Submit location and engineering designs for containment of storage, processing and loading & unloading areas including freeboard	Required	330.63(b)(2)(F)	Yes	Part 3 Report- Section 3.1 & (Attachment III-C)		General Facility Design
279	Part III	Describe the storage and handling of grease, oil and sludge, including the maximum time waste will be on-site and details of ultimate disposition	Required	330.63(b)(2)(G)	Yes	Part III Report- Section 2.2.5		General Facility Design
280	Part III	Provide details of effluent disposal	Required	330.63(b)(2)(H)	Yes	Part III Report- Section 2.2.6		General Facility Design
281	Part III	Provide designs for noise pollution control	Required	330.63(b)(2)(I)	Yes	Part III Report- Section 2.2.7		General Facility Design
282	Part III	Describe how the processing areas will be designed for proper cleaning and to prevent surface water runoff onto, into, and off the treatment areas	Required	330.63(b)(3)(A)	Yes	Part III Report- Section 2.3.1		General Facility Design
283	Part III	Describe construction material used for walls and floors that can be hosed down and scrubbed	Required	330.63(b)(3)(B)	Yes	Part III Report- Section 2.3.2		General Facility Design
284	Part III	Describe water or steam connections and equipment for cleaning	Required	330.63(b)(3)(C)	Yes	Part III Report- Section 2.3.3		General Facility Design
285	Part III	Provide adequate floor drains and/or sumps	Required	330.63(b)(3)(D)	Yes	Part III Report- Section 2.3.4		General Facility Design
286	Part III	Describe proper disposal of liquids resulting from waste processing, cleaning, and washing and provide for the treatment of waste water	Required	330.63(b)(4)	Yes	Part III Report- Section 2.3.5		General Facility Design
287	Part III	Describe how facility will be designed to protect endangered species	Required	330.63(b)(5)	Yes	Part III Report- Section 2.4		General Facility Design
288	Part III	Acknowledge that the facility design complies with the requirements of 30 TAC 330.303(a) - (b)	Acknowledgement	330.63(c)	Yes	Part III Report- Section 3		Surface Water Drainage Report
336	Part III	Submit if applicable, a floodplain development permit from any agency with jurisdiction over the proposed improvements	Required if Requested	330.63(c)(2)(D)(ii)	Yes	N/A		Surface Water Drainage Report
337	Part III	Submit if applicable a Conditional Letter of Map Amendment from FEMA	Required if Requested	330.63(c)(2)(D)(iii)	Yes	N/A		Surface Water Drainage Report

338	Part III	Submit if applicable, Corps of Engineers Section 404 Specification of Disposal Sites for Dredged or Fill Material permit for construction of all necessary improvements	Required if Requested	330.63(c)(2)(D)(iv)	Yes	N/A		Surface Water Drainage Report
339	Part III	Provide for storage & transfer units a description of design features for the rapid processing and minimum detention of solid waste at the facility	Required	330.63(d)(1)(A)	Yes	Part III Report- Section 4.1		Waste Management Unit Design
340	Part III	Provide design features for a facility to prevent the creation of nuisances or public health hazards	Required	330.63(d)(1)(A)	Yes	Part III Report- Section 4.1.1		Waste Management Unit Design
341	Part III	Provide a design to control and contain spills and contaminated water from leaving the facility. Unenclosed containment areas shall also account for precipitation from a 25-year, 24-hour rainfall event	Required	330.63(d)(1)(B)	Yes	Part III Report- Section 4.1.2		Waste Management Unit Design
342	Part III	Provide the maximum amount of time processed and unprocessed waste are to remain on site	Required	330.63(d)(1)(C)	Yes	Part III Report- Section 4.1.3		Waste Management Unit Design
545	Part III	Indicate that a characterization of the contaminated groundwater, including concentrations of assessment constituents as defined in §330.409	Required	330.63(f)(7)(A)	Yes	Part III Report- Section 4.1.4		Groundwater Sampling & Analysis Plan
701	Part III	Specify in the closure plan that the operator will begin closure no later than 30 days after final receipt of waste or no later than one year if the unit has remaining capacity and additional waste may be received	Required	330.457(f)(3)	Yes	Part III Report- Section 5.3		Closure Plan
702	Part III	Provide for closure activities to be completed within 180 days of initiation	Required	330.457(f)(4)	Yes	Part III Report- Section 5.3		Closure Plan
704	Part III	Acknowledge that following receipt of closure documents and the inspection report by the TCEQ region, the ED may acknowledge termination of operation & closure & deem the facility properly closed	Acknowledgement	330.457(f)(6)	Yes	Part III Report- Section 5.4		Closure Plan
706	Part III	Indicate that notice of closure will be published in the newspaper of largest circulation 90 days prior to the initiation of a final facility closure. The notice shall provide the name, address, and physical location of the facility; the TCEQ authorization number; and the last date of intended receipt of waste.	Required	330.461(a)	Yes	Part III Report- Attachment IIIA- Section 2.1		Closure Plan
707	Part III	Acknowledge that notice of closure will be provided to the ED 90 days prior to the initiation of a final facility closure and that the owner or operator will also make available an adequate number of copies of the approved final closure and post-closure plans (if applicable) for public access and review	Acknowledgement	330.461(a)	Yes	Part III Report- Attachment IIIA- Section 2.1		Closure Plan
708	Part III	Acknowledge that least one closure sign will be posted at every point of access and notify all persons who utilize the facility of the date of closure and the prohibition against further receipt of waste materials.	Acknowledgement	330.461(b)	Yes	Part III Report- Attachment IIIA- Section 2.2		Closure Plan
709	Part III	Indicate that suitable barriers will be installed at all access points to adequately prevent the unauthorized dumping of solid waste at the closed facility.	Required	330.461(b)	Yes	Part III Report- Attachment IIIA- Section 2.2		Closure Plan
710	Part III	Indicate that an Affidavit to the Public will be submitted to the ED by registered mail, if waste will remain onsite and indicate that The Owner or Operator will also record a certified notation on the deed to the facility property that the land has been used as a landfill and submit a certified copy of the modified deed to the ED.	Required if Requested	330.461(c)(1)	Yes	Part III Report- Attachment IIIA- Section 3		Closure Plan
711	Part III	Acknowledge that a certification, signed by a P.E., will be provided within 10 days of final closure activities, verifying that final facility closure has been completed in accordance with the approved closure plan and will include all applicable documentation necessary for certification	Acknowledgement	330.461(c)(2)	Yes	Part III Report- Attachment IIIA- Section 3		Closure Plan
713	Part III	The owner or operator may request permission from the ED to remove the notation from the deed if all wastes are removed from the facility	Informational	330.461(d)				Closure Plan
714	Part III	Submit a closure plan for Storage and Processing units to remove all waste, waste residues, and any recovered materials. Units shall be dismantled and removed off-site or decontaminated.	Required	330.459(a)	Yes	Part III Report- Attachment IIIA- Section 2.3		Closure Plan For Processing Facilities
715	Part III	Provide plans for the evacuation of all material on-site to an authorized facility and the disinfecting of all contaminated water handling units, tipping areas, processing and post-processing areas (as applicable)	Required	330.459(b)	Yes	Part III Report- Attachment IIIA- Section 2.4		Closure Plan For Processing Facilities

716	Part III	Acknowledge that if there is evidence of a release, the ED may require an investigation, assessment, and or corrective action.	Acknowledgement	330.459(c)	Yes	Part III Report- Attachment IIIA- Section 2.5		Closure Plan For Processing Facilities
717	Part III	Submit a plan (if combustible material is stored outdoors) for closure of a recycling facility that includes collecting processed and unprocessed materials, and transporting the materials to an authorized facility for disposition	Required	330.459(d)(1)	Yes	Part III Report- Attachment IIIA- Section 2.6		Closure Plan For Processing Facilities
718	Part III	Provide for the closure plan to be implemented (if combustible material is stored outdoors) and completed within 180 days following the most recent acceptance of processed or unprocessed materials	Required	330.459(d)(2)	Yes	Part III Report- Attachment IIIA- Section 2.6		Closure Plan For Processing Facilities
737	Part III	Submit cost estimates for closure & post-closure. Existing facilities must submit a copy of the financial assurance documentation. New facilities must submit financial assurance within 60 days prior to receipt of waste	Required	330.63(j)	Yes	Part III Report- Attachment IIIA- Table IIIB-1-Section 1		Closure Cost Estimates
742	Part III	Provide cost estimates to close a Recycling facility that stores combustible materials outdoors.	Required	330.505(a)(1)	Yes	Part III Report- Attachment IIIA- Table IIIB-1-Section 1.2.1		Closure Cost Estimates
743	Part III	Provide a closure cost estimate that equals the costs of closure of the facility, including disposition of the maximum inventories of all waste; processed and unprocessed combustible materials stored outdoors on site during the life of the facility	Required	330.505(a)(2)(A)	Yes	Part III Report- Attachment IIIA- Table IIIB-1-Section 1.2.2		Closure Cost Estimates
744	Part III	Provide a closure cost estimate that is based on the costs of hiring a third party that is not affiliated with the owner or operator; and is based on a per cubic yard and/or short ton measure for collection and disposition costs.	Required	330.505(a)(2)(B-(C)	Yes	Part III Report- Attachment IIIA- Table IIIB-1-Section 1.2.3		Closure Cost Estimates
745	Part III	Provide for the closure cost estimate & financial assurance to be increased if conditions change which increase the maximum cost of closure at any time during the active life of the facility	Required	330.505(a)(3)	Yes	Part III Report- Attachment IIIA- Table IIIB-1-Section 1.3.1		Closure Cost Estimates
746	Part III	A reduction in the closure cost estimate and the amount of financial assurance may be approved if the cost estimate exceeds the maximum cost of closure at any time during the remaining life of the facility.	Required if Requested	330.505(a)(4)	Yes	Not Requested		Closure Cost Estimates
747	Part III	Provide for the maintenance of financial assurance for Recycling facilities that store combustible materials outdoors or that pose a risk	Required	330.505(b)(1)	Yes	Part III Report- Attachment IIIA- Table IIIB-1-Section 1.3.3		Closure Cost Estimates
748	Part III	Provide for the maintenance of financial assurance until closure is approved by ED.	Required	330.505(b)(2)	Yes	Part III Report- Attachment IIIA- Table IIIB-1-Section 1.3.4		Closure Cost Estimates
758	Part IV	A site operating plan shall cover all on-site units in accordance with Subchapters D & E of Chapter 330.	Informational	330.65(a)				Site Operating Plan
785	Part IV	Indicate that the facility will provide the reports required by 30 TAC §330.675 to the Executive Director	Required	330.675	Yes	Part IV Report- Section 1.1		Site Operating Plan
988	Part IV	Provide information identifying any permit required under the TPDES and any permit requirements imposed by other agencies for a grease, grit, & septage processing facility	Required	330.65(d)	Yes	Part IV Report- Section 1.2		Site Operating Plan
989	Part IV	Identify source & characteristics of wastes that will be received and Specify any limiting parameters that may influence the design and operation of the facility	Required	330.203(a)	Yes	Part IV Report- Section 2		Site Operating Plan
990	Part IV	Provide estimate of the amount of each waste to be received daily, max amount stored at any one time, max & average time waste will remain on-site, max & average processing time, intended destination of generated wastes, & description of how 10% will be recovered if applicable.	Required	330.203(b)	Yes	Part IV Report- Section 2.1		Site Operating Plan
991	Part IV	Acknowledge that 10% recovery of material for beneficial use is considered to be the recovery of fats, oil, and greases, but does not include the recovery of water.	Acknowledgement	330.203(b)	Yes	Part IV Report- Section 2.2		Site Operating Plan
992	Part IV	Provide a description of the method of sampling and analysis for the effluent discharged to a trap, interceptor, or treatment facility permitted under Texas Water Code, Chapter 26. At a minimum, the method of sampling, the frequency of sampling, and the tests to be made shall be part of the sampling and analysis plan. All sampling and analysis shall be done according to approved United States Environmental Protection Agency (EPA) methods.	Required	330.203(c)(1)	Yes	Part IV Report- Section 2.2.4		Site Operating Plan
993	Part IV	Indicate that records of sampling analysis of wastes and effluent shall be maintained for a three-year period.	Required	330.203(c)(1)	Yes	Part IV Report- Section 2.2.4		Site Operating Plan

994	Part IV	Provide a sampling and analysis plan that includes at minimum analyses for benzene, lead, & TPH for waste received	Required	330.203(c)(2)	Yes	Part IV Report- Section 2.2.4		Site Operating Plan
995	Part IV	Provide for the annual analysis of grit trap wastes for BOD, TSS, benzene, TPH, & lead	Required	330.203(c)(2)	Yes	Part IV Report- Section 2.2.4		Site Operating Plan
996	Part IV	Indicate that sludges to be landfilled must be analyzed annually for benzene, lead, & TPH.	Required	330.203(c)(2)	Yes	Part IV Report- Section Non Applicable End of Report		Site Operating Plan
997	Part IV	Indicate that effluent must be analyzed annually for TPH, fats, oil & grease, & pH	Required	330.203(c)(2)	Yes	Part IV Report- Section 2.2.4		Site Operating Plan
998	Part IV	Indicate if applicable that grit trap waste proposed to be accepted is solely from commercial car washes and not from other generators.	Required If Requested	330.9(g)	Yes	Part IV Report- Section Non Applicable End of Report		Site Operating Plan
999	Part IV	Acknowledge that a report with supporting documentation shall be submitted on a quarterly basis to demonstrate at least 10% of the volume of the waste received was processed to recover solid material that was recycled or reused	Acknowledgement	330.9(g)(1)	Yes	Part IV Report- Section 2.2.3.1		Site Operating Plan
1000	Part IV	Acknowledge that failure to achieve the relevant 10 percent recycling rate in any two quarters within any one-year period will cause a registration to terminate and will require the owner or operator of the facility to obtain a permit to continue facility operations.	Acknowledgement	330.9(g)(1)	Yes	Part IV Report- Section 2.2.3.1		Site Operating Plan
1001	Part IV	Provide for a quarterly report to be submitted that will include volume of waste received, percent solids, and the method of determining the percent solids, processed, disposed, and recycled or reused.	Required	330.9(g)(1)	Yes	Part IV Report- Section 2.2.3.1		Site Operating Plan
1002	Part IV	Provide in the quarterly report, the method(s) utilized to achieve at least 10% recycling or reuse of incoming material	Required	330.9(g)(1)	Yes	Part IV Report- Section 2.2.3.1		Site Operating Plan
1003	Part IV	Submit a quarterly report that reconciles the volume of waste with the amounts on manifests, shipping documents, or trip tickets and indicate where the recyclable material was taken for recycling.	Required	330.9(g)(1)	Yes	Part IV Report- Section 2.2.3.1		Site Operating Plan
1004	Part IV	Acknowledge that the addition of any material such as lime, polymer, or flocculent added as part of the recycling process is not allowed to be considered as part of the 10% recovery of material from the waste stream and must be subtracted from the material considered as recycled.	Acknowledgement	330.9(g)(1)	Yes	Part IV Report- Section 2.2.3.1		Site Operating Plan
1005	Part IV	Acknowledge that diverting material from the waste stream without processing is not considered to be recycling as part of this activity.	Acknowledgement	330.9(g)(1)	Yes	Part IV Report- Section 2.2.3.1		Site Operating Plan
1006	Part IV	Provide the characteristics and constituent concentrations of wastes generated by the facility and indicate that documentation that all wastes leaving the facility can be adequately managed by other authorized facilities will be provided	Required	330.205(a)	Yes	Part IV Report- Section 3.1.1		Site Operating Plan
1007	Part IV	Indicate that all wastes generated by a facility must be processed or disposed at an authorized solid waste management facility	Required	330.205(b)	Yes	Part IV Report- Section 3.1.2		Site Operating Plan
1008	Part IV	Indicate that all wastewaters generated by a facility shall be managed as contaminated water in accordance with 330.207	Required	330.205(c)	Yes	Part IV Report- Section 3.1.5		Site Operating Plan
1010	Part IV	Indicate that the facility shall be designed and operated to produce a sludge that is acceptable at municipal solid waste landfills and does not exceed standards specified in 30 TAC §330.205(d)	Required If Requested	330.205(d)	Yes	Part IV Report- Section 3.1.4		Site Operating Plan
1011	Part IV	Indicate that sludges exceeding the limits shall not be disposed in municipal solid waste landfills and must be sent to an authorized facility for further processing or disposal as a hazardous waste, as appropriate or disposed in a municipal solid waste landfill with dedicated Class 1 industrial solid waste cells if the sludge is nonhazardous.	Required If Requested	330.205(d)	Yes	Part IV Report- Section 3.1.4		Site Operating Plan
1012	Part IV	The owner or operator shall not discharge contaminated water without specific written authorization.	Informational	330.207(a)				Site Operating Plan
1013	Part IV	Provide a plan that describes how all liquids resulting from the operation of the facility shall be disposed of in a manner that will not cause surface water or groundwater pollution.	Required	330.207(a)	Yes	Part IV Report- Section 3.1.5		Site Operating Plan
1014	Part IV	Indicate that contaminated water shall be collected and contained until properly managed.	Required	330.207(b)	Yes	Part IV Report- Section 3.1.6		Site Operating Plan
1015	Part IV	Indicate that leachate shall be collected and contained until properly managed.	Required	330.207(b)	Yes	Part IV Report- Section 3.1.7		Site Operating Plan

1016	Part IV	Indicate that collection units other than storage tanks shall have a clay or synthetic liner and the liner shall be constructed in accordance with 30 TAC §330.331(b)	Required If Requested	330.207(b)	Yes	Part IV Report- Section 3.1.6 & 3.1.8		Site Operating Plan
1018	Part IV	Indicate that the use of leachate & gas condensate in mining process is prohibited.	Required	330.207(c)	Yes	Part IV Report- Section 3.1.9		Site Operating Plan
1019	Part IV	Indicate that the facility will not discharge to a septic system	Required	330.207(d)	Yes	Part IV Report- Section 3.1.9		Site Operating Plan
1020	Part IV	Indicate that off-site discharge of contaminated waters shall be made only after approval under the Texas Pollutant Discharge Elimination System authority	Required	330.207(e)	Yes	Part IV Report- Section 3.1.10		Site Operating Plan
1021	Part IV	Acknowledge that wastewaters discharged to a facility permitted under Texas Water Code, Chapter 26 must not interfere with or pass-through the treatment facility processes or operations, interfere with or pass-through its sludge processes, use, or disposal or otherwise be inconsistent with the prohibited discharge standards, including 40 Code of Federal Regulations Part 403, General Pretreatment Regulations for Existing and New Source Pollution	Acknowledgement	330.207(f)(1)	Yes	Part IV Report- Section 3.1.11		Site Operating Plan
1022	Part IV	Indicate that the daily effluent design standard for oil and grease concentration leaving the facility and entering a public sewer system shall not exceed 200 milligrams per liter, the concentration established in the wastewater discharge permit pretreatment limit or the concentration established by the treatment facility permitted under Texas Water Code, Chapter 26, the National Pollutant Discharge Elimination System, or the limits established in 30 TAC §330.207, if the discharge points do not require compliance with locally set limits.	Required	330.207(g)	Yes	Part IV Report- Section 3.1.12		Site Operating Plan
1023	Part IV	Indicate that lagoons, open-top storage tanks, open vessels, and underground storage units are prohibited at liquid waste transfer facilities	Required	330.207(h)	Yes	Part IV Report- Section 3.1.14		Site Operating Plan
1024	Part IV	Provide plans demonstrating that all waste shall be stored in such a manner that it does not constitute a fire, safety, or health hazard or provide food or harborage for animals and vectors, and shall be contained or bundled so as not to result in litter	Required	330.209(a)	Yes	Part IV Report- Section 3.2.1		Site Operating Plan
1025	Part IV	Provide a description of on-site storage area for source-separated or recyclable materials that is separate from a transfer station or process area and provides for the control of odors, vectors, and windblown waste	Required If Requested	330.209(b)	Yes	Part IV Report- Section 3.2.2		Site Operating Plan
1026	Part IV	Provide plans for process area of transfer stations that recover material from putrescible or liquid waste. Such plans shall provide for the storage of processed and unprocessed waste & recycled materials in enclosed buildings, vessels, or containers.	Required If Requested	330.209(c)	Yes	Part IV Report- Section 3.2.3		Site Operating Plan
1027	Part IV	Provide a plan that describes how all waste containing food wastes shall be stored in covered or closed containers that are leak-proof, durable, and designed for safe handling and easy cleaning	Required	330.211	Yes	Part IV Report- Section 3.3.1		Site Operating Plan
1028	Part IV	Indicate that nonreusable containers shall be of suitable strength to minimize vector scavenging or rupturing.	Required	330.211(1)	Yes	Part IV Report- Section 3.3.2		Site Operating Plan
1029	Part IV	Indicate that reusable containers must be maintained in a clean condition as not to constitute a nuisance, harbor, feed, and propagate vectors.	Required	330.211(2)	Yes	Part IV Report- Section 3.3.3		Site Operating Plan
1030	Part IV	Indicate that any containers emptied manually must be capable of being serviced without physical contact with waste.	Required	330.211(2)(A)	Yes	Part IV Report- Section 3.3.4		Site Operating Plan
1031	Part IV	Indicate that containers that are mechanically handled must be designed to prevent spillage/leakage during storage, handling, and transport.	Required	330.211(2)(B)	Yes	Part IV Report- Section 3.3.5		Site Operating Plan
1032	Part IV	Provide a plan that describes how a citizen's collection stations shall be operated in accordance with 30 TAC §330.213	Required If Requested	330.213(a)	Yes	Part IV Report- Section 3.3.4		Site Operating Plan
1033	Part IV	Indicate that it is the responsibility of the person that owns or operates the collection center to provide for the collection of deposited waste on a scheduled basis and supervise the facility in order to maintain it in a sanitary condition.	Required If Requested	330.213(a)	Yes	Part IV Report- Section 3.3.4		Site Operating Plan

1034	Part IV	A citizen's collection station may accept sharps from single-family or multi-family dwellings, hotels, motels, or other establishments that provide lodging and related services for the public. The sharps will not be considered medical waste, as defined in 30 TAC §330.3	Required If Requested	330.213(b)	Yes	Part IV Report- Section 3.3.4		Site Operating Plan
1035	Part IV	Provide operational standards for stationary compactors that describe how they will operated and maintained in such a way as not to create a public nuisance through material loss or spillage, odor, vector breeding or harborage, or other condition.	Required If Requested	330.215(1) and (2)	Yes	Part IV Report- Section 3.3.5		Site Operating Plan
1036	Part IV	Indicate that a copy of the permit or registration, application, and any other plans or related documents, and as-built plans will be maintained in the site operating record and shall be made available for inspections by agency representatives or other interested parties	Required	330.219(a)	Yes	Part IV Report- Section 4.1.1		Site Operating Plan
1037	Part IV	Indicate that operator shall record & retain location restriction demonstrations, inspection records, training procedures, closure plans, monitoring, testing, analytical data relating to closure, cost estimates, financial assurance documents, all correspondence, modification, approvals, manifests, shipping documents, tickets relating to special waste, & documents as specified by the executive director in the operating record.	Required	330.219(b)(1) – (7)	Yes	Part IV Report- Section 4.1.2		Site Operating Plan
1038	Part IV	Indicate that trip tickets will be maintained according to the record retention provisions in 30 TAC §312.145.	Required	330.219(b)(8)	Yes	Part IV Report- Section 4.1.2- Table IV-2		Site Operating Plan
1040	Part IV	Indicate that all reports will be signed by a person who is a duly authorized as a signatory for reports. A person is duly authorized if authorized in in writing by the owner or operator in accordance with 30 TAC §305.44(a) and the authorization specifies individual or position with responsibility and this written authorization is submitted to the executive director	Required	330.219(c)(1)(A) - (C)	Yes	Part IV Report- Section 4.1.3		Site Operating Plan
1041	Part IV	Acknowledge that if the authorization to sign is not longer accurate a new authorization will be submitted	Acknowledgement	330.219(c)(2)	Yes	Part IV Report- Section 4.1.4		Site Operating Plan
1042	Part IV	Indicate that any person signing a report shall make the certification in 305.44(b).	Required	330.219(c)(3)	Yes	Part IV Report- Section 4.1.5		Site Operating Plan
1043	Part IV	Indicate that the operator shall maintain records on-site, available for inspection by the executive director for a period consisting of the two most recent calendar years	Required	330.219(d)	Yes	Part IV Report- Section 4.1.6		Site Operating Plan
1045	Part IV	Indicate that the results of final product testing under 30 TAC §330.613 or §332.71 will be maintained in the site operating record	Required	330.219(d)(2)	Yes	Part IV Report- Section 4.1.6		Site Operating Plan
1046	Part IV	Indicate that copies of annual reports will be maintained in the site operating record for 5yrs	Required	330.219(d)(3)	Yes	Part IV Report- Section 4.1.6		Site Operating Plan
1047	Part IV	Indicate that the site operating record shall be furnished and available for inspection by executive director.	Required	330.219(e)	Yes	Part IV Report- Section 4.1.6		Site Operating Plan
1048	Part IV	Indicate that the operator shall retain site operating record for the life of the facility.	Required	330.219(f)	Yes	Part IV Report- Section 4.1.7		Site Operating Plan
1049	Part IV	Indicate that the executive director may set alternative recordkeeping & notification schedules.	Required	330.219(g)	Yes	Part IV Report- Section 4.1.8		Site Operating Plan
1051	Part IV	Provide a fire protection plan that describes the source of fire protection (a local fire department, fire hydrants, fire extinguishers, water tanks, water well, etc.), procedures for using the fire protection source, and employee training and safety procedures. The fire protection plan shall comply with local fire codes.	Required	330.221(c)	Yes	Part IV Report- Section 5.1.1		Site Operating Plan
1052	Part IV	Provide a description of the availability of water under pressure for firefighting purposes	Required	330.221(a)	Yes	Part IV Report- Section 5.1.2		Site Operating Plan
1053	Part IV	Provide a description of on-site firefighting equipment	Required	330.221(b)	Yes	Part IV Report- Section 5.1.3		Site Operating Plan
1054	Part IV	Indicate that all employees shall be trained in the contents and use of the fire protection plan	Required	330.221(c)	Yes	Part IV Report- Section 5.1.4		Site Operating Plan
1055	Part IV	Provide a description of the artificial barriers, natural barriers, or a combination of both, appropriate to protect human health and safety and the environment that are used to control access to the facility and indicate that uncontrolled access to the facility shall be prevented.	Required	330.223(a)	Yes	Part IV Report- Section 5.2.1		Site Operating Plan

1056	Part IV	Provide a description of the, minimum two lane, access road from the public road and how it is designed for expected traffic volumes and adequate turning radii.	Required	330.223(b)	Yes	Part IV Report- Section 5.2.2		Site Operating Plan
1057	Part IV	Provide a description of vehicle parking for equipment, employees, and visitors. Indicate that safety bumpers at hoppers must be provided for vehicles. And provide a description of the positive means to control dust and mud	Required	330.223(b)	Yes	Part IV Report- Section 5.2.3		Site Operating Plan
1058	Part IV	Provide a description of perimeter control fencing that includes having lockable gates and attendant on site during operating hours. Operating and transport areas shall be enclosed by walls or fencing	Required	330.223(c)	Yes	Part IV Report- Section 5.2.4		Site Operating Plan
1059	Part IV	Provide a description of the unloading areas and indicate that unloading areas will be confined to as small an area as practical and be monitored by attendant.	Required	330.225(a)	Yes	Part IV Report- Section 5.3		Site Operating Plan
1060	Part IV	Provide a description of the signs & forced access lanes used to prevent indiscriminate dumping	Required	330.225(a)	Yes	Part IV Report- Section 5.3.1		Site Operating Plan
1061	Part IV	Indicate that the facility is not required to accept any solid waste that he/she determines will cause or may cause problems in maintaining full and continuous compliance	Required	330.225(a)	Yes	Part IV Report- Section 5.3.2		Site Operating Plan
1062	Part IV	Provide procedures to ensure that waste in unauthorized areas is removed immediately and disposed of properly.	Required	330.225(b)	Yes	Part IV Report- Section 5.3.3		Site Operating Plan
1063	Part IV	Provide procedures for the detection and prevention of the unloading of processing of prohibited wastes.	Required	3330.225©	Yes	Part IV Report- Section 5.3.4		Site Operating Plan
1064	Part IV	Indicate that prohibited waste must be returned immediately to the transporter or generator.	Required	330.225(c)	Yes	Part IV Report- Section 5.3.5		Site Operating Plan
1065	Part IV	Provide a description of how storage & processing areas are designed to control and contain worst case spill or release and will account for precipitation from a 25-year, 24-hour storm.	Required	330.227	Yes	Part IV Report- Section 5.4		Site Operating Plan
1066	Part IV	Specify the waste acceptance and facility operating hours	Required	330.229(a)	Yes	Part IV Report- Section 5.5.1		Site Operating Plan
1067	Part IV	The waste acceptance hours may be any time between the hours of 7:00 a.m. and 7:00 p.m., Monday through Friday, unless otherwise approved by the executive director or commission for a permit. The operating hours for operating heavy equipment and transporting materials on- or off-site may be any time between the hours of 5:00 a.m. and 9:00 p.m., Monday through Friday, unless otherwise approved in the authorization.	Required	330.229(a)	Yes	Part IV Report- Section 5.5.2		Site Operating Plan
1068	Part IV	Specify alternative operating hours of up to five days in a calendar year to accommodate special occasions, special purpose events, holidays, or other special occurrences	Required	330.229(b)	Yes	Part IV Report- Section 5.5.3		Site Operating Plan
1069	Part IV	Indicate that the facility will record in the site operating record the dates, times, and duration when any alternative operating hours are utilized.	Required	330.229(d)	Yes	Part IV Report- Section 5.5.4		Site Operating Plan
1070	Part IV	Indicate that the commission's regional offices may allow additional temporary operating hours to address disaster or other emergency situations, or other unforeseen circumstances that could result in the disruption of waste management services in the area.	Required	330.229(c)	Yes	Part IV Report- Section 5.5.5		Site Operating Plan
1071	Part IV	Indicate that a sign measuring at least 4' X 4' must be displayed at all entrances. Indicate that information on the sign must including the facility name and type, hours and days of operation, authorization number, and facility rules.	Required	330.231	Yes	Part IV Report- Section 5.6		Site Operating Plan
1072	Part IV	Indicate that windblown material and litter shall be collected as necessary, throughout the facility, along fences and access roads, and at the gate, at least once per day on days that the facility is in operation, to minimize unhealthy, unsafe, or unsightly conditions.	Required	330.233(a)	Yes	Part IV Report- Section 5.7.1		Site Operating Plan
1073	Part IV	Indicate the measures used to control windblown waste.	Required	330.233(a)(1)	Yes	Part IV Report- Section 5.7.2		Site Operating Plan
1074	Part IV	Provide a description of fence or screen used to minimize windblown waste if the facility is not completely enclosed.	Required	330.233(b)	Yes	Part IV Report- Section 5.7.3		Site Operating Plan
1075	Part IV	Provide procedures to encourage waste hauling vehicles to cover loads that may include posting signs, reporting offenders, and assessing surcharges.	Required	330.235	Yes	Part IV Report- Section 5.8		Site Operating Plan

1076	Part IV	Indicate that the operator must cleanup spilled waste at least once per day along roads used to access the facility within 2 miles from the site entrance and will consult with TXDOT or local government regarding cleanup.	Required	330.235	Yes	Part IV Report- Section 5.8		Site Operating Plan
1077	Part IV	Provide a description of all weather access roads at the facility and how the tracking of mud and debris onto public roadways will be minimized.	Required	330.237(a)	Yes	Part IV Report- Section 5.9		Site Operating Plan
1078	Part IV	Provide procedures use to ensure that dust from on-site and other access roadways shall not become a nuisance to surrounding areas and indicate that a water source and necessary equipment or other means of dust control shall be provided.	Required	330.237(b)	Yes	Part IV Report- Section 5.9.1		Site Operating Plan
1079	Part IV	Provide procedures to be used to maintain on site roads and minimize depressions, ruts, and potholes.	Required	330.237(c)	Yes	Part IV Report- Section 5.9.2		Site Operating Plan
1080	Part IV	Describe screening or other means used to prevent noise pollution & adverse visual impacts.	Required	330.239	Yes	Part IV Report- Section 5.10		Site Operating Plan
1081	Part IV	Provide procedures used to ensure that the design capacity of the facility shall not be exceeded and that waste will not be allowed to accumulate in quantities that create a nuisance, create odors, or harbor vectors.	Required	330.241(a)	Yes	Part IV Report- Section 5.11.1		Site Operating Plan
1082	Part IV	Provide procedures that describe how unprocessed grease, grit, & septage will only be stored up to 72hrs.	Required	330.241(a)(1)	Yes	Part IV Report- Section 5.11.1.2		Site Operating Plan
1083	Part IV	Provide procedures that provide for the restriction, diversion or removal of waste if the facility experiences a significant work stoppage.	Required	330.241(b)	Yes	Part IV Report- Section 5.11.2		Site Operating Plan
1084	Part IV	Provide an alternative processing/disposal procedures for when facility is inoperable for more than 24hrs.	Required	330.241(c)	Yes	Part IV Report- Section 5.11.3		Site Operating Plan
1085	Part IV	Provide procedures for washing down all working surfaces in contact with waste at least weekly or twice per week for facilities that operate continuously.	Required	330.243(a)	Yes	Part IV Report- Section 5.12.1		Site Operating Plan
1086	Part IV	Provide procedures to ensure that wash water shall not be allowed to accumulate without proper treatment.	Required	330.243(b)	Yes	Part IV Report- Section 5.12.2		Site Operating Plan
1087	Part IV	Provide procedures that demonstrate that wash water shall be collected & disposed of in an authorized manner.	Required	330.243(c)	Yes	Part IV Report- Section 5.12.3		Site Operating Plan
1088	Part IV	Acknowledge that air emissions from municipal solid waste facilities must not cause or contribute to a condition of air pollution as defined in the Texas Clean Air Act.	Acknowledgement	330.245(a)	Yes	Part IV Report- Section 5.13.1		Site Operating Plan
1089	Part IV	Indicate that the owner or operator will obtain all required authorizations under Chapter 116 or Subchapter U from Air Permits Division, except as authorized in THSC, 382.004. for the facility and any constructed air pollution abatement devices prior to start of construction.	Acknowledgement	330.245(b)	Yes	Part IV Report- Section 5.13.2		Site Operating Plan
1090	Part IV	Provide a description of odor-retaining containers & vessels used to store liquid and solid waste	Required	330.245(c)	Yes	Part IV Report- Section 3.13.3		Site Operating Plan
1091	Part IV	Provide a description of how the facility has been designed and will be operated to provide adequate ventilation and prevent nuisance odors from leaving boundary of facility	Required	330.245(d)	Yes	Part IV Report- Section 5.13.4		Site Operating Plan
1092	Part IV	Indicate that air pollution emission capture & abatement equipment shall be cleaned and maintained per manufacturer's recommendations and as necessary so that the equipment efficiency can be adequately maintained.	Required	330.245(e)	Yes	Part IV Report- Section 5.13.5		Site Operating Plan
1093	Part IV	Provide a description of the measures/equipment, in accordance with 30 TAC §330.245(f)(1) – (4), that will be use to control odor at the facility.	Required	330.245(f)(1) – (4)	Yes	Part IV Report- Section 5.13.6		Site Operating Plan
1094	Part IV	Indicate that the process areas that recover material from solid waste that contains putrescibles shall be maintained totally within an enclosed building and describe how openings to the process area shall be controlled to prevent releases of nuisance odors from leaving the property boundary of the facility.	Required	330.245(g)	Yes	Part IV Report- Section 5.13.7		Site Operating Plan
1095	Part IV	Provide a description of how facility shall be designed to allow a minimal time of exposure of liquid waste to the air and minimize waste contact with air during unloading of liquid waste into the facility.	Required	330.245(h)	Yes	Part IV Report- Section 5.13.8		Site Operating Plan

1096	Part IV	Acknowledge that the reporting of emissions events shall be made in accordance with §101.201 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements) and reporting of scheduled maintenance shall be made in accordance with §101.211 of this title (relating to Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements).	Acknowledgement	330.245(j)	Yes	Part IV Report- Section 5.13.8		Site Operating Plan
1097	Part IV	Provide procedures for the control of ponded water to avoid its becoming a nuisance and alleviate any objectionable odors	Required	330.245(k)	Yes	Part IV Report- Section 5.13.9		Site Operating Plan
1098	Part IV	Indicate that facility personnel will be trained in the appropriate sections of the facility's health and safety plan.	Required	330.247	Yes	Part IV Report- Section 6		Site Operating Plan
1099	Part IV	Indicate that the facility shall provide potable water and sanitary facilities for all employees and visitors.	Required	330.249	Yes	Part IV Report- Section 5.14		Site Operating Plan

PART I- APPLICATION FORM

Part I Application Form (Form 0650)

Texas Commission on Environmental Quality

Part I Application Form for New Permit, Permit Amendment, or Registration for a Municipal Solid Waste Facility

Instructions for completing this Part I Application Form are provided in TCEQ 00650-instr[1]. Include a Core Data Form (TCEQ 10400)[2] with the application for the facility owner, and Core Data Forms for the operator and property owner if different from the facility owner. If you have questions, contact the Municipal Solid Waste (MSW) Permits Section by email to mswper@tceq.texas.gov, or by phone at 512-239-2335. Rules cited on this form are in Title 30 Texas Administrative Code (30 TAC) and may be viewed online at www.tceq.texas.gov/goto/view-30tac.

Application Tracking Information

Facility Regulated Entity Name[3]:
Austin County Waste Solutions

Site Operator (Permittee or Registrant Name)[4]:
7 R Solutions LLC

MSW Authorization Number: _____

Initial Submission Date: 7/11/2025

Revision Date: 7/25/2025

Application Data

1. Submission Type	
☐ Initial Submission	■ Notice of Deficiency (NOD) Response

2. Authorization Type	
☐ Permit	■ Registration

3. Application Type	
☐ New Permit	
☐ Permit Major Amendment	☐ Permit Limited Scope Major Amendment
■ New Registration	

[1] www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/00650-instr.pdf
[2] www.tceq.texas.gov/goto/coredata
[3] Facility Regulated Entity Name must match the Regulated Entity Name indicated on the TCEQ Core Data Form.
[4] Site Operator is defined in 30 TAC 330.3(148) as the holder of, or the applicant for, an authorization (or license) for a municipal solid waste facility.

4. Application Fee

Amount

☐ $2,050—New Landfill Permits, and Landfill Permit Major Amendments Described in 30 TAC 305.62(j)(1)

☒ $150—Other Permits, Permit Amendments, Limited Scope Major Amendments, and all Registrations

Payment Method

☐ Online through ePay portal www3.tceq.texas.gov/epay/

Enter ePay Trace Number: _____

☒ Check (send to TCEQ Financial Administration Division)

Payor Name: Blake Giese Check Number: 1131

5. Electronic Versions of Application

TCEQ will publish electronic versions of applications online. Applicants are required to submit complete clean (unmarked) copies of their applications in electronic format once they are administratively complete and technically complete. Additionally, applicants must provide electronic copies of responses to notices of deficiencies for publishing online. (Refer to instructions for this form for how to submit electronically.)

6. Party Responsible for Publishing Notice

Indicate who will be responsible for publishing notice:

☒ Applicant ☐ Agent in Service ☐ Consultant

Contact Name: Blake Giese

Title: Owner

Email Address: austincountywastesolutions@gmail.com

7. Alternative Language Notice

Use the Alternative Language Checklist on Public Notice Verification Form TCEQ-20244-Waste-NORI, TCEQ-20244-Waste-NAPD, or TCEQ-20244-Waste-NAORPM available at www.tceq.texas.gov/permitting/waste_permits/msw_permits/msw_notice.html to determine if an alternative language notice is required.

Is an alternative language notice required for this application?

☒ Yes ☐ No

Indicate the alternative language: Spanish

8. Public Place for Copy of Application

Name of the Public Place: Austin County Courthouse

Physical Address: 1 East Main Street

City: Bellvillle County: Austin State: TX Zip Code: 77418

Phone Number: 979-865-5911

9. Consolidated Permit Processing

Is this submittal part of a consolidated permit processing request, in accordance with 30 TAC Chapter 33?

☒ Yes ☐ No

If "Yes", indicate the other TCEQ program authorizations requested:
Application to register a site for the beneficial use of Domestic Septage.

10. Confidential Documents

Does the application contain confidential documents?

☐ Yes ☒ No

If "Yes", reference the confidential documents in the application, but submit the confidential documents as an attachment in a separate binder marked "CONFIDENTIAL."

11. Permits and Construction Approvals

Mark the following table to indicate status of other permits or approvals.

Table 1. Permits and Construction Approvals.

Permit or Approval	Received	Pending	Not Applicable
Hazardous Waste Management Program under Texas Solid Waste Disposal Act			X
Underground Injection Control Program under Texas Injection Well Act			X
National Pollutant Discharge Elimination System Program under Clean Water Act; Waste Discharge Program under Texas Water Code, Chapter 26			X
Prevention of Significant Deterioration Program under Federal Clean Air Act (FCAA); Nonattainment Program under the FCAA			X
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA			X
Ocean Dumping Permits under Marine Protection Research and Sanctuaries Act			X
Dredge or Fill Permits under Clean Water Act			X
Licenses under the Texas Radiation Control Act			X
Other (describe):			
Other (describe):			

12. General Information About the Facility

Facility Regulated Entity Name:
Austin County Waste Solutions

Contact Name: Blake Giese Title: Owner

MSW Authorization Number (if existing): _____

Regulated Entity Reference Number: **RN** 112143748

Physical or Street Address (if available): 3655 Woodley Ln

City: Bellville County: Austin State: TX Zip Code: 77418

Phone Number: 281-725-0121

Latitude (decimal degrees, six decimal places): 30.0100

Longitude (decimal degrees, six decimal places): 96.0710

Elevation (above mean sea level): 260 feet (benchmark elevation for landfills)

Description of facility location with respect to known or easily identifiable landmarks:

1500' from the intersection of Oil Field Rd and School Rd on the left. Entrance to facility is a bright orange cattle guard. The facility is located 0.86 miles northeast of the orange catte guard on the right.

Access routes from the nearest United States or state highway to the facility:

FM 331 to Oil Field Rd to School Rd.
FM 159 to Walton Rd to Oil Field Rd to School Rd.
FM 159 to Racoon Bend Rd to Oil Field Rd to School Rd.

Coastal Management Program

Is the facility within the Coastal Management Program boundary?

☐ Yes ☒ No

13. Facility Types

Facility types are described in 30 TAC 330.5(a).

Indicate facility type (select all that apply):

☐ Type I ☐ Type IV ☒ Type V

☐ Type IAE ☐ Type IVAE ☐ Type VI

14. Activities Conducted at the Facility

☐ Storage ☒ Processing ☐ Disposal

15. Facility Waste Management Units

Check the box for each type of waste management unit proposed.

- ☐ Landfill Unit(s)
- ☐ Incinerator(s)
- ☐ Class 1 Landfill Unit(s)
- ☒ Process Tank(s)
- ☐ Storage Tank(s)
- ☐ Tipping Floor
- ☐ Storage Area
- ☐ Other (specify):
- ☐ Container(s)
- ☐ Roll-off Boxes
- ☐ Surface Impoundment
- ☐ Autoclave(s)
- ☐ Refrigeration Unit(s)
- ☐ Mobile Processing Unit(s)
- ☐ Compost Pile(s) or Vessel(s)

16. Description of Proposed Facility or Changes to Existing Facility

Provide a brief description of the proposed activities if application is for a new facility, or the proposed changes to an existing facility or permit conditions if the application is for an amendment.

The facility will be on 2 acres. We will alternating between two fraq tanks (21,000 Gallons each) 42000 Gallons total capacity. We will be utilizing bar screens for trash collection. The trash will be put into a dumpster to go to a TCEQ autorized landfill. We will have a Lime tank to hold "slurry" hydrated lime. We will have a pump to transfer the lime to the fraq tank to raise the pH to 12 or more for 30 minutes to treat domestic septage. After pH meets 30 TAC 312.82 (C) , and checked again the sludge will be pumped out through an irrigation traveler (rain gun) for beneficial land application (seperate TCEQ BFU site permit). There will be a berm around the fraq tanks to contain any spills. Septic trucks will back up to two of our 4 hoses to offload.

17. Facility Contact Information

Site Operator (Permittee or Registrant)

Name: 7 R Solutions LLC

Customer Reference Number: **CN** 606353829

Contact Name: Blake Giese Title: Owner

Mailing Address: 3655 Woodley Ln

City: Bellville County: Austin State: TX Zip Code: 77418

Phone Number: 281-725-0121

Email Address: austincountywastesolutions@gmail.com

Operator (if different from *Site Operator*)

Name: _____

Customer Reference Number: **CN**_____

Contact Name: _____ Title: _____

Mailing Address: _____

City: _____ County: _____ State: ____ Zip Code: _____

Phone Number: _____

Email Address: _____

Consultant (if applicable)

Firm Name: _____

Consultant Name: _____

Texas Board of Professional Engineers Firm Registration Number: _____

Contact Name: _____ Title: _____

Mailing Address: _____

City: _____ County: _____ State: ____ Zip Code: _____

Phone Number: _____

Email Address: _____

Agent in Service (required for out-of-state applicants)

Name: _____

Mailing Address: _____

City: _____ County: _____ State: TX Zip Code: _____

Phone Number: _____

Email Address: _____

18. Facility Supervisor License

Indicate the level of Municipal Solid Waste Facility Supervisor license, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations, Subchapter F that the individual who supervises or manages the operations will obtain prior to commencing operations.

☐ Class A Supervisor License ■ Class B Supervisor License

19. Facility Ownership

Facility Owner

Does the Site Operator (Permittee or Registrant) own all the facility units and all the facility property?

☐ Yes ■ No

If "No", provide the following information for the other owner, and include a Core Data Form for the other owner. Attach supplemental sheet if more than one other owner.

Other Owner Name: Kenneth Woodley

What is Owned: ☐ Facility Units ■ Property

☐ Other (describe): _____

Mailing Address: 2178 Wiestruck Rd

City: Bellville County: Austin State: TX Zip Code: 77418

Phone Number: 979-885-8914

Email Address: agrigrowers23@gmail.com

20. Other Government Entities Information

Texas Department of Transportation

District: 13

District Engineer's Name: Martin C. Horst, P.E.

Mailing Address: 403 Huck St.

City: Yoakum County: Yoakum State: TX Zip Code: 77995

Phone Number: 361-293-4300

Email Address: martin.horst@txdot.gov

Local Government Authority Responsible for Road Maintenance (if applicable)

Government or Agency Name: _____

Contact Person's Name: _____

Mailing Address: _____

City: _____ County: _____ State: TX Zip Code: _____

Phone Number: _____

Email Address: _____

City Mayor Information

City Mayor's Name: James Harrison
Mailing Address: 30 S. Holland
City: Bellville County: Austin State: TX Zip Code: 77418
Phone Number: 979-865-3136
Email Address: jharrison@cityofbellville.com

City Health Authority

Authority Name: Health Dept Public Health Clinic
Contact Person's Name: Shawn Jackson
Contact Person's Title: City Administrator
Mailing Address: 30 S. Holland St.
City: Bellville County: Austin State: TX Zip Code: 77418
Phone Number: 979-865-3136
Email Address: sjackson@cityofbellville.com

County Judge Information

County Judge's Name: Tim Lapham
Mailing Address: One East Main
City: Bellville County: Austin State: TX Zip Code: 77418
Phone Number: 979-865-5911
Email Address: TLapham@AustinCounty.com

County Health Authority

Agency Name: Public Health Regional Office (Region 6)
Contact Person's Name: Dr. Don Bosse
Contact Person's Title:
Mailing Address: 5425 Polk St. Suite J
City: Houston County: Harris State: TX Zip Code: 77023
Phone Number: 713-767-3000
Email Address: RLHO@dshs.texas.gov

State Representative Information

House District Number: 85
State Representative's Name: Stan Kitzman
District Office Mailing Address: One East Main Suite 202
City: Bellville County: Austin State: TX Zip Code: 77418
Phone Number: 979-865-4560
Email Address: Stan.kitzman@house.texas.gov

State Senator Information

District Number: 18

State Senator's Name: Lois Kolkhorst

District Office Mailing Address: 2000 S. Market St. #101

City: Brenham County: Washington State: TX Zip Code: 77833

Phone Number: 979-251-7888

Email Address: louis.kolkhorst@senate.texas.gov

Council of Governments (COG)

COG Name: Houston-Galveston Area Council

COG Representative's Name: Mr. Chuck Wemple

COG Representative's Title: Member

Mailing Address: 3555 Timmons Lane, Suite 120

City: Houston County: Harris State: TX Zip Code: 77227

Phone Number: 713-993-4514

Email Address: charles.wemple@h-gac.com

River Basin Authority

Authority Name: Brazos River Authority

Contact Person's Name: David Collinsworth

Watershed Sub-Basin Name: _____

Mailing Address: 4600 Cobbs Dr.

City: Waco County: McLennan State: TX Zip Code: 76710

Phone Number: 254-761-3101

Email Address: DavidC@Brazos.org

Local Drainage or Flood Management Authority

Authority Name: Austin County Emergency Management

Contact Person's Name: Roy Mercer

Mailing Address: 1 East Main St

City: Bellville County: Austin State: TX Zip Code: 77418

Phone Number: 979-865-6463

Email Address: contact@achsoem.com

U.S. Army Corps of Engineers District

Indicate the U.S. Army Corps of Engineers district in which the facility is located:

- ☐ Albuquerque, NM
- ☐ Fort Worth, TX
- ☒ Galveston, TX
- ☐ Tulsa, OK

Local Government Jurisdiction

Within City Limits of: N/A

Within Extraterritorial Jurisdiction of: Bellville TX

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing, or disposal of municipal or industrial solid waste?

☐ Yes ☒ No

If "Yes", provide a copy of the ordinance as an attachment.

PAGE REVISION DATE: 7/25/25

Applicant Signature Page

Site Operator (Permittee or Registrant Name) or Authorized Signatory

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.

Name: Blake Giese Title: Owner

Email Address: austincountywastesolutions@gmail.com

Signature: [signature] Date: 7/28/2025

Authorization by Facility Owner for Operator to Submit Application

To be completed by the facility owner if the application is submitted by an operator who is not the facility owner.

I am the owner of the facility that is the subject of this application, and authorize the operator, _____ to submit this application pursuant to 30 TAC 305.43(c).

Name: _____ Title: _____

Email Address: _____

Signature: _____ Date: _____

Notary

SUBSCRIBED AND SWORN to before me by the said _____

On this 28 day of July, 2025

My commission expires on the 28 day of April, 2026

[signature]

Notary Public in and for

Fortbend Texas (notary's jurisdiction, including county and state)

Note: Application Must Bear Signature & Seal of Notary Public

NOTARY PUBLIC STATE OF TEXAS
JIGNESHKUMAR J. PATEL
Notary Public, State of Texas
Comm. Expires 04-28-2026
Notary ID 133734093

PAGE REVISION DATE: 7/25/25

Property Owner Affidavit

Property Owner Affidavit for Landfill Facility

I acknowledge in accordance with 30 TAC 330.59(d)(2) that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure and post-closure care of the facility. For a facility where waste will remain after closure, I acknowledge that I have a responsibility to file with the county deed records an affidavit to the public advising that the land will be used for a solid waste facility prior to the time that the facility actually begins operating as a municipal solid waste landfill facility, and to file a final recording upon completion of disposal operations and closure of the landfill units according to 30 TAC 330.19 (relating to Deed Recordation). I further acknowledge that the facility owner or operator and the State of Texas shall have access to the property during the active life and post-closure care period for the purpose of inspection and maintenance.

Name: _____

Email Address: _____

Signature: _____ Date: _____

Property Owner Affidavit for Processing Facility

I acknowledge in accordance with 30 TAC 330.59(d)(2) that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that the facility owner or operator and the State of Texas shall have access to the property during the active life and post-closure care period for the purpose of inspection and maintenance.

Name: Kenneth Woodley

Email Address: woodley2178@gmail.com

Signature: Kenneth Woodley Date: 8-6-25

Notary

SUBSCRIBED AND SWORN to before me by the said Kenneth Woodley

On this 6th day of August, 2025

My commission expires on the 12th day of December 2028

April Wehring

Notary Public in and for

Austin Co, Texas (notary's jurisdiction, including county and state)

Note: Application Must Bear Signature & Seal of Notary Public

APRIL WEHRING
My Notary ID # 132814917
Expires December 10, 2028

Part I Attachments

Refer to instruction document TCEQ 00650-instr[5] for professional engineer seal requirements.

Attachments Table 1. Required attachments.

Required Attachments	Attachment Number
Supplementary Technical Report [30 TAC 305.45(a)(8)]	Part 1 Report
Property Legal Description [30 TAC 330.59(d)(1)]	Attachment IB-3
Property Metes and Bounds Description [30 TAC 330.59(d)(1)]	Attachment IB-2
Facility Legal Description [30 TAC 330.59(d)(1)]	Attachment IB
Facility Metes and Bounds Description [30 TAC 330.59(d)(1)]	Attachment IB-1
Metes and Bounds Drawings [30 TAC 330.59(d)(1)]	Attachment IB
On-Site Easements Drawing [30 TAC 330.61(c)(10)]	Attachment IB
Land Ownership Map [30 TAC 330.59(c)(3)]	Attachment IA-2
Landowners List [30 TAC 330.59(c)(3)]	Attachment IA-1
Mailing Labels (in electronic file, in Avery 5160 format; see instructions) [30 TAC 281.5(7)]	Attachment IA-3
General Location Maps [30 TAC 330.59(c)(2)]	Figure I-1
Texas Department of Transportation (TxDOT) County Map [30 TAC 330.59(c)(2)]	Figure I-2
General Topographic Maps [30 TAC 330.61(e)]	Figure I-4
Verification of Legal Status / Legal Authority (certificate of incorporation) [30 TAC 281.5 and 330.59(e)]	Attachment IC
Evidence of Competency [30 TAC 330.59(f)]	Part I Report
Signatory Authority Documentation [30 TAC 305.44 and 330.59(g)]	Part I Application
TCEQ Core Data Form(s) TCEQ-10400[6] [30 TAC 281.5(7)]	With Cover Letter

[5] www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/00650-instr.pdf
[6] www.tceq.texas.gov/permitting/central_registry/guidance.html

Attachments Table 2. Additional attachments as applicable.

Additional Attachments (select all that apply and add others as needed)	**Attachment Number**
■ Plain Language Summary Form TCEQ-20947[7] [30 TAC 39.405(k)]	With Cover Letter
■ Public Involvement Plan Form TCEQ-20960[8]	With Cover Letter
■ Fee Payment Receipt	Attachment IE
☐ Confidential Documents	N/A
☐ Waste Storage, Processing and Disposal Ordinances [Texas Health and Safety Code, Section 363.112[9]]	N/A
☐ Final Plat Record of Property Description [30 TAC 330.59(d)(1)(B)]	N/A
Other (describe):	
Other (describe):	
Other (describe):	

[7] www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20947-instr.pdf
[8] www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/pip-form-tceq-20960.pdf www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/instructions-for-pip-form-tceq-20960.pdf
[9] statutes.capitol.texas.gov/Docs/HS/htm/HS.363.htm#363.112

TYPE V LIQUID PROCESSING REGISTRATION APPLICATION, PART I REPORT

Austin County Waste Solutions

Type V Liquid Waste Processing Facility
Bellville, Texas
Austin County

Prepared by:

7 R Solutions, LLC
3655 Woodley Ln
Bellville, Texas 77418

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

Intended for Permitting Purposes Only
December 2024

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FigureI-2 Site Location Map
Figure I-3 Aerial Photograph
Figure I-4 General Topographic Map
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ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

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ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

1. Purpose of the Application

The purpose of this Registration Application ("RA") is to register a new Type V **Austin County Waste Solutions** liquid waste processing ("Facility or "Site") located in Austin County, Texas. The RA is being submitted to the Texas Commission on Environmental Quality (TCEQ) Waste Permits Division by 7 R Solutions, LLC.

2. Supplementary Technical Report

30 TAC 305.45(a)(8)

A supplementary technical report is being submitted in connection with this application. The report has been prepared by either a Texas licensed professional engineer, a Texas licensed professional geoscientist, or by a qualified person who is competent and experienced in the field to which the application relates and thoroughly familiar with the operation or project for which the application is made.

The **Part I Report** has been prepared in accordance with 30 TAC 330.59, pertaining to the contents of Part I of the application.

2.1 Facilities and Systems

30 TAC 305.45(a)(8)(A), 30 TAC 330.9(f)(1)

The Facility meets the requirements for a registration of a Type V Liquid Waste Processing Facility as it will recover at least ten percent or more by weight or weight equivalent of the total incoming waste stream for reuse or recycling and disposes of the remaining waste stream to a TCEQ approved landfill.

The Facility will receive domestic septage only from residential and commercial activities, which will be screened and then processed for debris and reusable liquid for beneficial land use. The reusable waste stream will then be processed with the addition of lime (as required to meet 30 TAC 312.82(c)) then transported via pipe to an approved TCEQ Beneficial Land Unit (BFU) site. The non reusable waste stream (debris) will be containerized and shipped off site to an approved TCEQ landfill for disposal.

2.2 Waste and Volume Rate

30 TAC 305.45(a)(8)(B)

The Austin County Waste Solutions Facility has a projected daily waste acceptance rate of 42,000 Gallons (GAL) Waste volume and rates are discussed in greater detail in the Part II report.

2.3 Other Authorizations 30 TAC 330.55(a)

The construction and operation of this Facility will comply with Subchapter U of 30 TAC Chapter 330 (relating to Standard Air Permits for Municipal Solids Waste Landfill Facilities and Transfer Stations) or other approved air authorizations.

7 R Solutions, LLC will consult with the TCEQ Air Permits Division on or before the date that the municipal solids waste application is filed with the executive director.

Austin County Waste Solutions (ACWS) understands that all liquids resulting from the operation of solid waste facilities shall be disposed of in a manner that will not cause surface water or groundwater pollution. The Facilities shall provide for the treatment of wastewaters resulting from waste management activities and from cleaning and washing. The Facility (ACWS) shall ensure that storm water and wastewater management is in compliance with the regulations of the commission.

2.4 Delinquent Fees 30 TAC 330.59(h), 330.671, 330.675

7 R Solutions, LLC and Austin County Waste Solutions have no delinquent TCEQ fees at this time.

3. Facility Location

30 TAC 330.59(b)(1-3)

The Austin County Waste Solutions Facility is a proposed 2-acre Type V Liquid Processing Facility in Austin County, Texas. The proposed site is located within a 2,200- acre ranch.

The Facility is located outside of the extraterritorial jurisdiction of the City of Bellville, 1500 feet Southeast of the intersection of Oil Field Road and School Road. The Facility entrance is located 0.86 miles East on School Road on the North Side. The site location is shown on **Figure I-1 and I-2**. Additionally, an aerial photograph showing the site is provided as **Figure I-3**, and the general topographical map is included as **Figure I-4**.

The Facility is located on property that is owned by Kenneth Woodley. Authorization or lease agreement is provided in **Attachment ID**. The mailing/physical address for the Facility property is:

Austin County Waste Solutions
c/o 7 R Solutions, LLC
3655 Woodley, Lane
Bellville, Texas 77418

The geographic coordinates of the facility are:

Latitude (degrees, minutes, seconds): 30,01,00
Longitude (degrees, minutes, seconds): 96,07,10

4. Maps

30 TAC 330.59(c)(1-3)

4.1 General Location Maps

The following maps collectively comply with the requirements 30 TAC 330.59(c)(1-2).

A General Location Map showing the county maps prepared by the Texas Department of Transportation (TxDOT) is provided as **Figure I-1**. The scale is of one-half inch equals one mile. TxDOT also provided a second more close map **Figure I-2**.

An aerial Photograph is included as **Figure I-3**. A Drainage, Pipeline, Access, and Utility Easement Location Map is included as **Figure I-5**.

4.2 Land Ownership

A Land Ownership Map is provided as **Figure IA-1, Attachment IA-2**. The Austin County Appraisal District Tax Rolls and Tax Maps were reviewed by 7 R Solutions, LLC to determine land and mineral interest ownership of properties within a one-quarter mile radius of the registration boundary. The Austin County Apprasial District records do not show mineral rights ownership records. Property ownership derived from real property appraisal records as listed on the date that the RA was filed.

The list of adjacent and potentially affected land owners, which corresponds to the Land Ownership Map, along with pre-printed mailing labels as required by 30 TAC 330.59(c)(3)(B), is included as **Attachments IA-1** and **IA-3.**

4.3 Other Maps

Maps required per 30 TAC.45(6) will be provided as figures in **Part II** of this application

5. Property Owner and Operator Information

30 TAC 330.59(d)

Austin County Waste Solutions is located on property owned by Kenneth Woodley. Documentation capturing the permission and acknowledgements are provided as **Attachment ID**. As indicated the property owner has given authorization for 7 R Solutions, LLC to operate Austin County Waste Solutions, "The Facility".

7 R Solutions, LLC is currently applying for a Type V Liquid Waste Processing Facility, which will allow the facility to accept domestic septage. The waste will be sorted for unusable "debris" and reusable materials, limed, then disposed in an approved TCEQ Beneficial Land Unit (BFU). The remaining usable "debris" materials will be loaded for disposal and disposed at an approved off-site TCEQ permitted solid and waste landfill.

5.1 Legal Description

30 TAC 330.59(d)(1)

The legal description and the Austin County Clerk's file numbers for the property are provided in **Attachment IB**. A signed and sealed drawing of the registration boundary metes and bounds, provided by **A-Survey, Inc**. is included in **Attachment IB**. The registration boundary metes and bounds description was also provided by A-Survey, Inc., from a ground survey dated December 20,2024.

5.1.1 Easements

There currently no easements located on the two acres boundary of the processing facility. Since there is no current construction or buildings on the property **Attachment IB** is the most current drawing with no easements. Upon request from the TCEQ after facility is built, 7 R Solutions, LLC. will provide an updated drawing.

5.2 Property Owner Affidavit

30 TAC 330.59(d)(2)

A signed property owner affidavit from Kenneth Woodley is included as **Attachment ID**.

The property owner, Kenneth Woodley, acknowledges that the State of Texas may hold the property owner responsible for the operation, maintenance, and closure and post-closure care of the facility. The affidavit also acknowledges that the State of Texas shall have access to the property during the active life and post-closure care period. If required after closure for the maintenance and inspection of the Facility.

5.3 Legal Authority 30 TAC 330.59(e)

The verification of the legal status of the applicant is provided in **Attachment IC.**

5.4 Ownership Status 30 TAC 330.45(a)(2)

The property is owned 100% owned by Kenneth Woodley.

6. Evidence of Competency

30 TAC 330.59(f)

The following evidence of 7 R Solutions, LLC competency to operate the facility is provided below.

6.1 Solid Waste Facility Operation

30 TAC 330.59(f)(1), 30 TAC 330.59(f)(5)

Blake Giese, owner of 7R Solutions, LLC has been managing the operations of the following facility.

SITE NAME	SITE TYPE	PERMIT/REG#	COUNTY	DATES OF OPERATION
Waller Lime Stabilization Facility	(Lime Stabilization) Liquid Processing Facility	WQ0004538000	Waller	01/04/2021-05/27/2023
El Celoso	Class B Land Application	WQ0004518000	Waller	01/04/2021-05/27/2023
Carl Miller Farms 710084	Class B Land Application	WQ0004450000	Waller	01/04/2021-05/27/2023
Ortega Ranch	Class B Land Application	WQ0005222000	Waller	01/04/2021-05/27/2023
Carl Miller Farms 4	Class B Land Application	WQ0004448000	Waller	01/04/2021-05/27/2023
Carl Miller Farms 3	Class B Land Application	WQ0004445000	Waller	01/04/2021-05/27/2023
Jeffries Ranch	Class B Land Application	WQ0004454000	Waller	01/04/2021-05/27/2023
Carl Miller Farms 1	Class B Land Application	WQ0005248000	Waller	01/04/2021-05/27/2023

LANDFILLING/EARTHMOVING EQUIPMENT TYPES	PERSONNEL EXPERIENCE OR LICENSES
Sprint Sand & Clay/ Dozer, Excavator, Off Road Dump Truck	Operations Manager

7 R Solutions, LLC is applying for a Type V Liquid Waste Processing Facility Registration Application (RA); however, this facility has not been constructed or operated.

6.2 Management and Personnel

30 TAC 330.59(f)(2-4)

The names of the owner and operator principals and supervisors are provided below, along with previous affiliations with other organizations engaged in solid waste activities.

Mr. Blake Giese

Mr. Kenneth Woodley

Both owners of 7 R Solutions, LLC (listed above) have not owned or operated (with any direct financial interest) any facilities in any state, territory, or countries within the past 10 years.

Per 30 TAC 330.59(f)(3), a licensed solid waste facility supervisor will be employed before commencing Facility operations.

MSW Class B Operator License	Blake Giese	SW0007814

6.3 Equipment

30 TAC 330.59(f)(5-6)

These regulation citations are applicable to landfills and mobile liquid waste processing units only, not processes facilities.

7. Application

7.1 Text Appointments 30 TAC 330.59(g)

7 R Solution, LLC has no appointments.

7.2 Existing Permits & Authorizations 30 TAC 330.45(a)(7)

Table I-2. Existing Permits & Authorizations

Status	Program
N/A	Hazardous Waste Management program under the Texas Soid Waste Disposal Act
N/A	Underground Injection Control (UIC) program under the Texas Injection Well Act
N/A	National Pollutant Discharge Elimination System (NPDES) program under the Federal Clean Water Act (CWA) and Waste Discharge program under the Texas Water Code, Chapter 26
N/A	Prevention of Significant Deterioration (PSD) Program under the Federal Clean Air Act
N/A	Nonattainment Program under the Federal Clean Air Act
N/A	National Emission Standards for Hazardous Pollutants (NESHAPS) preconstruction approval under the Federal Clen Air Act
N/A	Ocean dumping permits under the Marine Protection Research and Sanctions Act
N/A	Dredge or fill permits under the Federal Clean Water Act
N/A	License under the Texas Radiation Control Act
N/A	NPDES Stormwater Pollution Control 402 Permit
N/A	U. S. Army Corps of Engineers Dredge and Fill Permit 404
APP	TCEQ Air Quality Permit or Registration
N/A	Other environmental permits (provide list)
APP	Municipal Solid Waste Processing Plant
APP	Texas Pollutant Discharge Elimination System (TPDES)General Stormwater Permit

Notes: RQD = Required
APP = Applied for
REC = Received
N/A = Not Applicable

7.3 Application Fees 30 TAC 330.59(h)

The application fee for a permit, registration, amendment, modification, or temporary authorization is $150. This fee was paid by check in the mail. A copy of the check is **Attachment IF**. This was check number 1131 from the account of Blake and Jordan Giese. It was mailed on 12/23/24 via USPS with a tracking number of 9505 5109 9842 4358 6297 45.

Not Applicable Sections;

None

PART I - ATTACHMENTS

IA	Land Ownership List
IB	Legal Description
IC	Legal Authority
ID	Property Owner Affadavit
IE	Application Fee Payment

ATTACHMENT IA

Attachment IA

Land Ownership

ATTACHMENT IA-1

Attachment IA-1

Land Ownership List

Land Ownership List
Austin County Waste Solutions
Type V Liquid Waste Processing Facility

Quarter Mile Affected Landowners

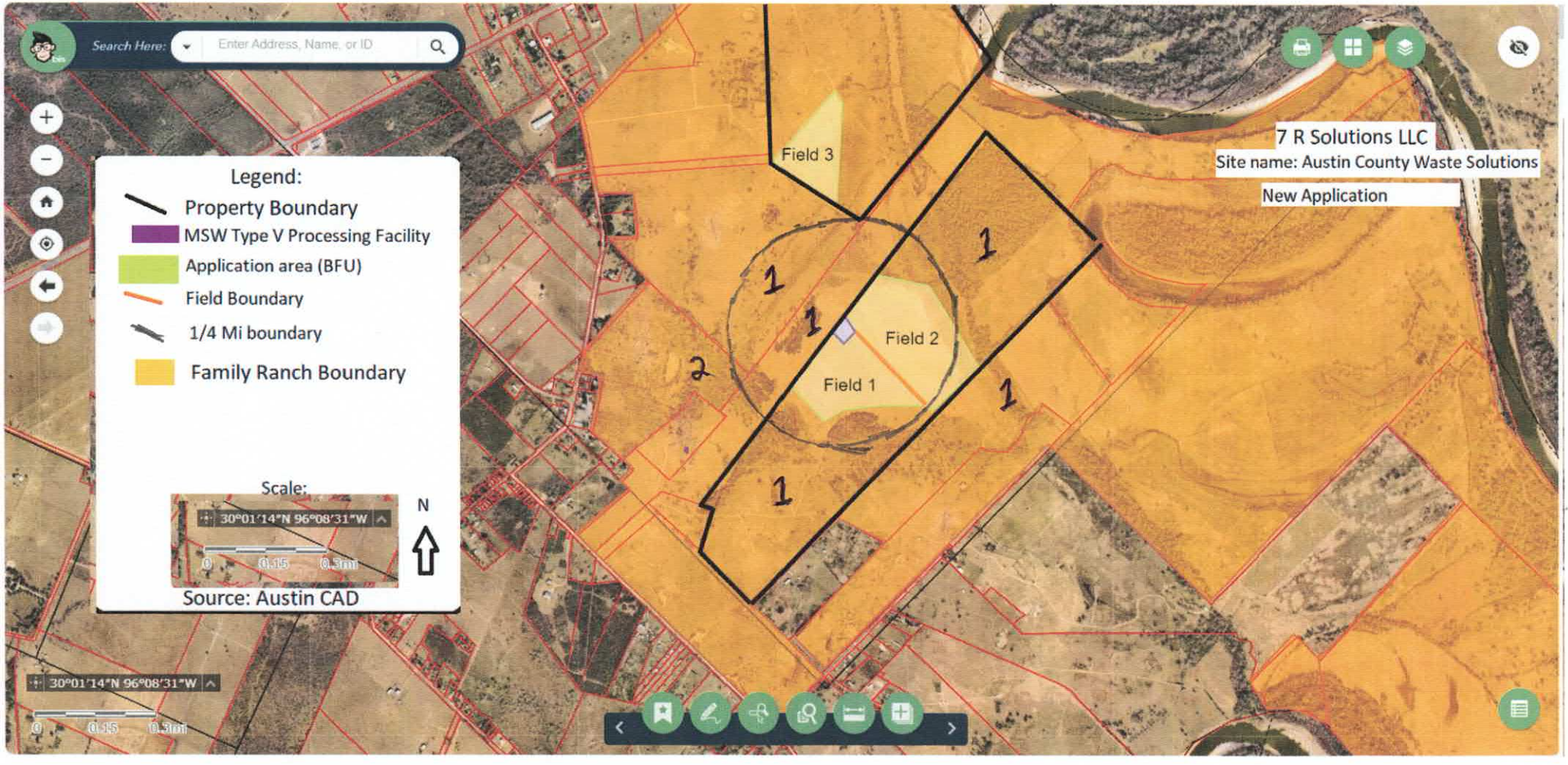
1. Woodley Living Trust
   Ronald B & Carolin
   Woodley Trustees
   122 S Mathews St
   Bellville, TX 77418

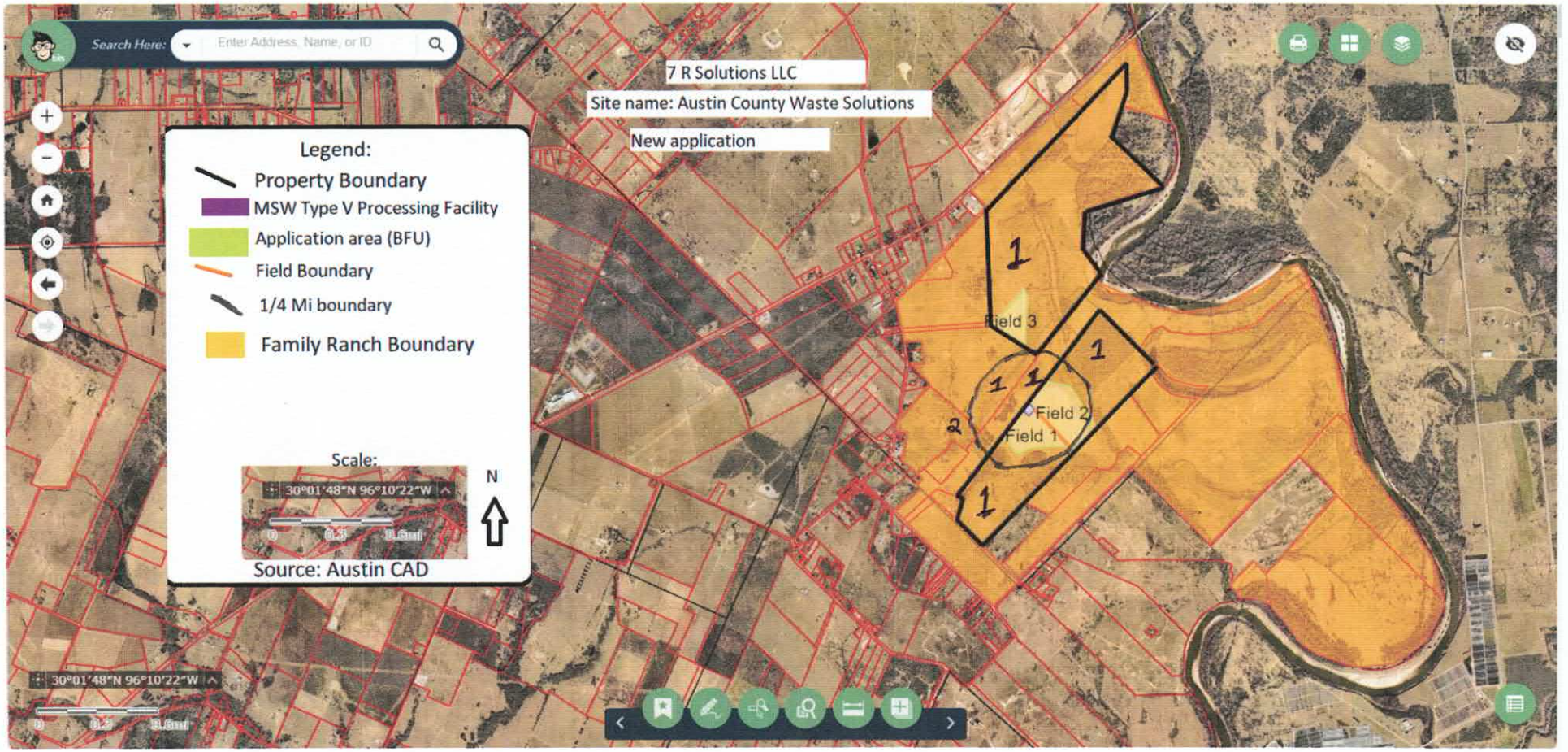
2. Woodley Kenneth & Stacy
   2178 Wietstruck RD
   Bellville, TX 77418

ATTACHMENT IA-2

Attachment IA-2

Land Ownership Map


Search Here:
Enter Address, Name, or ID
Legend:
Property Boundary
MSW Type V Processing Facility
Application area (BFU)
Field Boundary
1/4 Mi boundary
Family Ranch Boundary
Scale:
30°01'14"N 96°08'31"W
0 0.15 0.3mi
N
Source: Austin CAD
Field 3
Field 2
Field 1
1
1
1
1
1
2
7 R Solutions LLC
Site name: Austin County Waste Solutions
New Application
30°01'14"N 96°08'31"W
0 0.15 0.3mi


Search Here:
Enter Address, Name, or ID
7 R Solutions LLC
Site name: Austin County Waste Solutions
New application
Legend:
Property Boundary
MSW Type V Processing Facility
Application area (BFU)
Field Boundary
1/4 Mi boundary
Family Ranch Boundary
Scale:
30°01'48"N 96°10'22"W
N
Source: Austin CAD
Field 3
Field 2
Field 1
1
2

ATTACHMENT IA-3

Attachment IA-3

Mailing Labels - Pre- Printed

Attachment 10

Revised 7/25/2025 Prelim – Review 31732866

WOODLEY LIVING TRUST RONALD B & CAROLIN 122 S MATHEWS ST BELLVILLE TX 77418	WOODLEY KENNETH & STACY 2178 WIESTRUCK RD BELLVILLE TX 77418	BELLVILLE INDEPENDENT SCHOOL DISTRICT 518 SOUTH MATHEWS BELLVILLE TX 77418
WOODLEY LIVING TRUST RONALD B & CAROLIN 122 S MATHEWS ST BELLVILLE TX 77418	WOODLEY KENNETH & STACY 2178 WIESTRUCK RD BELLVILLE TX 77418	BELLVILLE INDEPENDENT SCHOOL DISTRICT 518 SOUTH MATHEWS BELLVILLE TX 77418
WOODLEY LIVING TRUST RONALD B & CAROLIN 122 S MATHEWS ST BELLVILLE TX 77418	WOODLEY KENNETH & STACY 2178 WIESTRUCK RD BELLVILLE TX 77418	BELLVILLE INDEPENDENT SCHOOL DISTRICT 518 SOUTH MATHEWS BELLVILLE TX 77418
WOODLEY LIVING TRUST RONALD B & CAROLIN 122 S MATHEWS ST BELLVILLE TX 77418	WOODLEY KENNETH & STACY 2178 WIESTRUCK RD BELLVILLE TX 77418	BELLVILLE INDEPENDENT SCHOOL DISTRICT 518 SOUTH MATHEWS BELLVILLE TX 77418

ATTACHMENT IB

Attachment IB

Legal Description

ATTACHMENT IB-1

Attachment IB-1

2 Acre MSW Facility Boundary

&

Access Road

METES AND BOUNDS

DESCRIPTION

OF

2.000 ACRES

(OFFICE SITE PARCEL)

IN THE

WILLIAM SMEATHERS SURVEY, ABSTRACT 90

AUSTIN COUNTY, TEXAS

BEING all that certain tract or parcel of land containing 2.000 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being out of that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 2.000 acre tract being more particularly described by metes and bounds, as follows, to wit::

BEGINNING at a ½ inch iron rod set for corner, same being the **POINT OF BEGINNING** and most northerly corner of the tract herein described, same being the most northerly northeast terminus of that certain 6.379 acre 60 Ft. Access Road Parcel this day herein described, from which a ½ inch iron rod found for corner bears North 52 degrees 59 minutes 16 seconds West, a distance of 30.32 feet, same being the centerline terminus of said called 6.379 acre 60 Ft. Access Road Parcel this day herein described;

THENCE, with said common line, South 41 degrees 17 minutes 05 seconds East, a distance of 249.67 feet to a 1/2 inch iron rod set for corner, same being the most easterly corner of the tract herein described;

THENCE, continuing with said common line, South 36 degrees 54 minutes 17 seconds West, a distance of 356.49 feet to a 1/2 inch iron rod set for corner, and same being the most southerly corner of the tract herein described;

THENCE, continuing with said common line, North 41 degrees 17 minutes 05 seconds West, a distance of 249.67 feet to a ½ inch iron rod set for corner, same being in the southeasterly right-of-way line of the aforementioned 6.379 acre 60 Ft. Access Road Parcel this day herein described;

Continued

19 N. Miller Bellville, Texas 77418 A-Survey, Inc. 1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

THENCE, with said common line, and said southeasterly right-of-way line of said 6.379 acre 60 Ft. Access Road Parcel, North 36 degrees 54 minutes 17 seconds East, a distance of 356.49 feet to the **POINT OF BEGINNING** of the tract herein described and containing 2.000 acres of land, more or less. All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

PROJECT NO. 24160A – OFFICE SITE PARCEL

DECEMBER 20, 2024

::COMPILED BY::

STATE OF TEXAS
REGISTERED
RONALD K. BRYANT
4361
PROFESSIONAL
LAND SURVEYOR

METES AND BOUNDS

DESCRIPTION

OF

6.379 ACRE

(ACCESS ROAD PARCEL)

IN THE

WILLIAM SMEATHERS SURVEY, ABSTRACT 90

AUSTIN COUNTY, TEXAS

BEING all that certain tract or parcel of land containing 6.379 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being in the aggregate of that certain called 3.4 – 7.4 acre parcel as described by instrument recorded in Volume 709, Page 698 of the Official Records of Austin County, Texas, and that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 6.379 acre tract being more particularly described by metes and bounds, as follows, to wit::

COMMENCING at a ½ inch iron rod set for corner, same being the **POINT OF BEGINNING** and most southerly southwest terminus of the 60 Ft. Access Road Parcel herein described, same being in the northeasterly right-of-way line of East School Road (Right-of-Way Varies), and same being in a southwesterly line of said called 3.4 – 7.4 acre parcel;

THENCE, departing said northeasterly right-of-way line of said East School Road, and with the centerline of said called 6.379 acre 60 Ft. Access Road Parcel, the following:

THENCE, North 47 degrees 21 minutes 28 seconds East, a distance of 1,006.44 feet to a ½ inch iron rod set for corner, same being a point of curvature in the arc of a curve to the right;

THENCE, along the arc of a curve to the right, a radius of 300.00 feet, an arc length of 184.60 feet, a chord length of 181.70 feet, a chord bearing of North 64 degrees 59 minutes 10 seconds East, a delta angle of 35 degrees 15 minutes 23 seconds to a ½ inch iron rod set for corner at a point of tangency;

THENCE, North 82 degrees 36 minutes 51 seconds East, a distance of 560.40 feet to a ½ inch iron rod set for corner, same being a point of curvature on the arc of a curve to the left;

Continued

19 N. Miller Bellville, Texas 77418 A-Survey, Inc. 1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

THENCE, along the arc of a curve to the left, a radius of 250.00 feet, an arc length of 245.89 feet, a chord length of 236.10 feet, a chord bearing of North 54 degrees 26 minutes 14 seconds East, a delta angle of 56 degrees 21 minutes 13 seconds to a ½ inch iron rod set for corner, same being a point of tangency;

THENCE, North 26 degrees 15 minutes 38 seconds East, a distance of 641.48 feet to a ½ inch iron rod set for corner, same being a point of curvature on the arc of a curve to the right;

THENCE, along the arc of a curve to the right, a radius of 500.00 feet, an arc length of 95.31 feet, a chord length of 95.16 feet, a chord bearing of North 31 degrees 43 minutes 16 seconds East, a delta angle of 10 degrees 55 minutes 17 seconds to a ½ inch iron rod set for corner, same being a point of tangency;

THENCE, North 37 degrees 00 minutes 44 seconds East, a distance of 1,896.72 feet to a ½ inch iron rod set for corner, same being the point of terminus of said 6.379 acre 60 Ft. Access Road Parcel;

All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

PROJECT NO. 24160A – ACCESS ROAD PARCEL

DECEMBER 20, 2024

::COMPILED BY::

STATE OF TEXAS
REGISTERED
RONALD K. BRYANT
4361
PROFESSIONAL
LAND SURVEYOR

19 N. Miller Bellville, Texas 77418 A-Survey, Inc. 1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

BOUNDARY & IMPROVEMENTS SURVEY PLAT
OF
2.000 Acres - OFFICE SITE PARCEL
AND A
6.379 Acre Access Road Parcel
IN THE
WILLIAM SMEATHERS SURVEY, A-90
AUSTIN COUNTY, TEXAS

SM

SCALE: 1" = 200'

200 0 200 Feet

LEGEND

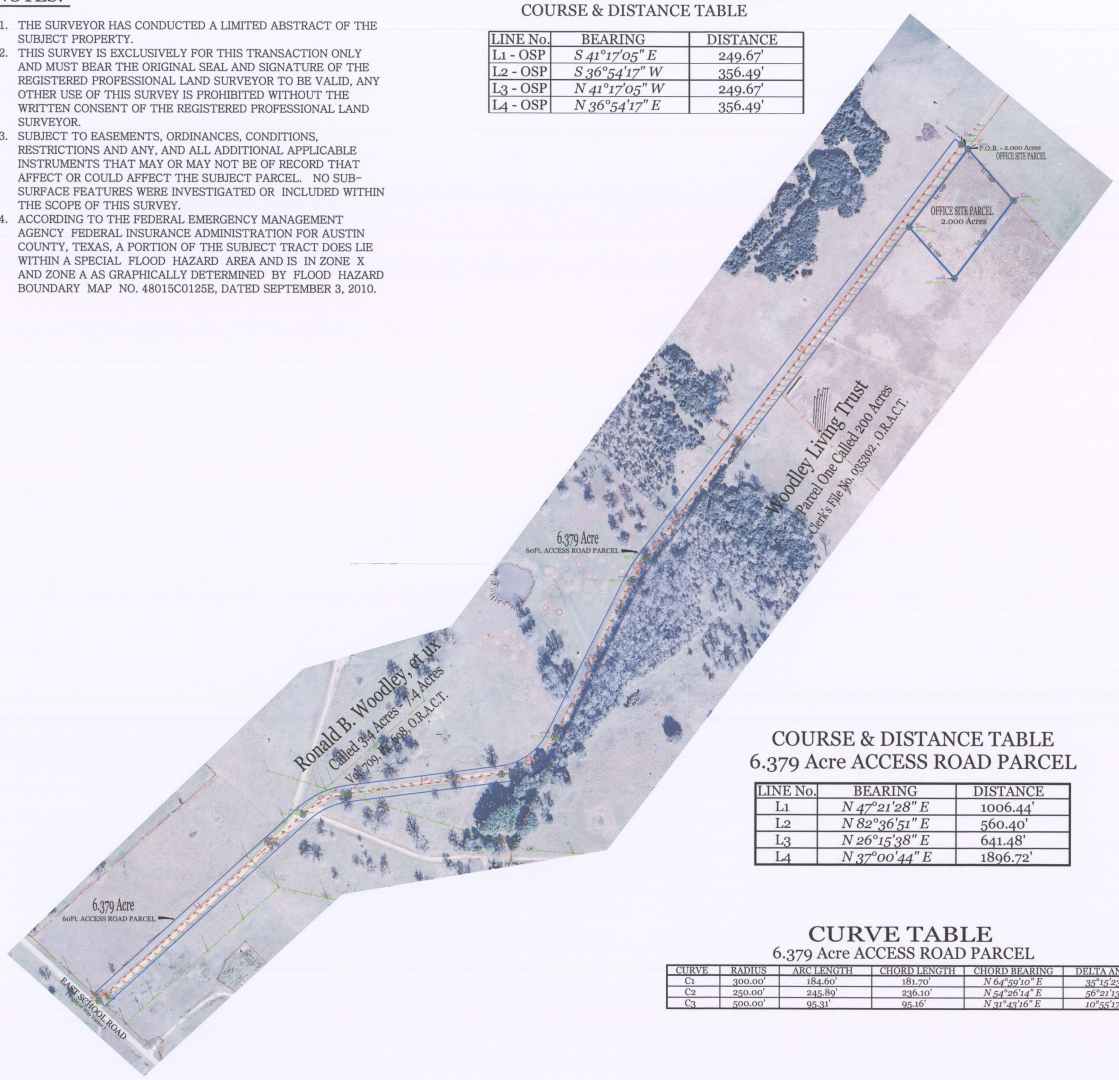
- POWER POLE
- 1/2" IRON ROD SET
- OVERHEAD POWER LINE
- GUY WIRE
- BARBED/WIRE FENCE
- GRAVEL

NOTES:

1. THE SURVEYOR HAS CONDUCTED A LIMITED ABSTRACT OF THE SUBJECT PROPERTY.
2. THIS SURVEY IS EXCLUSIVELY FOR THIS TRANSACTION ONLY AND MUST BEAR THE ORIGINAL SEAL AND SIGNATURE OF THE REGISTERED PROFESSIONAL LAND SURVEYOR TO BE VALID, ANY OTHER USE OF THIS SURVEY IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE REGISTERED PROFESSIONAL LAND SURVEYOR.
3. SUBJECT TO EASEMENTS, ORDINANCES, CONDITIONS, RESTRICTIONS AND ANY, AND ALL ADDITIONAL APPLICABLE INSTRUMENTS THAT MAY OR MAY NOT BE OF RECORD THAT AFFECT OR COULD AFFECT THE SUBJECT PARCEL. NO SUB-SURFACE FEATURES WERE INVESTIGATED OR INCLUDED WITHIN THE SCOPE OF THIS SURVEY.
4. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FEDERAL INSURANCE ADMINISTRATION FOR AUSTIN COUNTY, TEXAS, A PORTION OF THE SUBJECT TRACT DOES LIE WITHIN A SPECIAL FLOOD HAZARD AREA AND IS IN ZONE X AND ZONE A AS GRAPHICALLY DETERMINED BY FLOOD HAZARD BOUNDARY MAP NO. 48015C0125E, DATED SEPTEMBER 3, 2010.

2.000 Acre OFFICE SITE PARCEL
COURSE & DISTANCE TABLE

LINE No.	BEARING	DISTANCE
L1 - OSP	S 41°17'05" E	249.67'
L2 - OSP	S 36°54'17" W	356.49'
L3 - OSP	N 41°17'05" W	249.67'
L4 - OSP	N 36°54'17" E	356.49'



COURSE & DISTANCE TABLE
6.379 Acre ACCESS ROAD PARCEL

LINE No.	BEARING	DISTANCE
L1	N 47°21'28" E	1006.44'
L2	N 82°36'51" E	560.40'
L3	N 26°15'38" E	641.48'
L4	N 37°00'44" E	1896.72'

CURVE TABLE
6.379 Acre ACCESS ROAD PARCEL

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	300.00'	184.60'	181.70'	N 64°59'10" E	35°15'23"
C2	250.00'	245.89'	236.10'	N 54°26'14" E	56°21'13"
C3	500.00'	95.31'	95.16'	N 31°43'16" E	10°55'17"

I HEREBY STATE THAT THIS SURVEY PLAT REPRESENTS THE RESULTS OF AN ACTUAL SURVEY MADE ON THE GROUND UNDER MY SUPERVISION AND THAT NO VISIBLE ENCROACHMENTS WERE FOUND, EXCEPT AS SHOWN AND/OR DEPICTED HEREON.

12-20-2024

RONALD K. BRYANT
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION No. 4361

STATE OF TEXAS REGISTERED RONALD K. BRYANT 4361 PROFESSIONAL LAND SURVEYOR

A-SURVEY, INC.
"THE MASTERS OF MEASUREMENT" ™
19 NORTH MILLER
BELLVILLE, TEXAS 77418
979-865-8111
1-800-4-A-SURVEY
4ASURVEY.COM
4ASURVEY@GMAIL.COM
T.B.P.E.L.S. FIRM REG. LIC. No. 10076700
PROJECT No.: 24160A

TITLE Co.: T.B.D.	GF No.: N.A.
CLIENT: KENNETH WOODLEY	
6.379 Acre ACCESS ROAD PARCEL - 2.000 Acre OFFICE SITE PARCEL	
ADDRESS: REMMERT ROAD, BELLVILLE, AUSTIN COUNTY, TEXAS	

COPYRIGHT © 2024 A-SURVEY, Inc. ALL RIGHTS RESERVED

ATTACHMENT IB-2

Attachment IB-2

Whole Ranch Property Boundary

ACCESS EASEMENT AGREEMENT

DATE: August 14, 2025

GRANTOR: RONALD BLAIR WOODLEY and CAROLIN ANN WOODLEY, Co-Trustees of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018
122 South Mathews Street
Bellville, Austin County, Texas 77418

GRANTEE: KENNETH WAYNE WOODLEY
P.O. Box 213
Bellville, Austin County, Texas 77418

DOMINANT ESTATE PROPERTY:

All that certain tract or parcel of land, lying and being situated in Austin County, Texas, out of the William Smeathers League, Abstract No. 90, containing 2.00 acres of land, more or less, being more fully described by metes and bounds in **Exhibit "A"** attached hereto and incorporated herein for all purposed pertinent.

PROPERTY SUBJECT TO THE EASEMENT:

All that certain tract or parcel of land, lying and being situated in Austin County, Texas, out of the William Smeathers League, Abstract No. 90, containing 198.00 acres of land, more or less, being all that certain 200.00 acres of land, more or less, more fully described as Parcel One in Deed dated August 9, 2003, from Bellville Independent School District to Ronald Blair Woodley and Carolin Ann Woodley, Trustees of The Woodley Living Trust U/T/A dated September 26, 1994, as amended, recorded in under Clerk's File No. 035302, Official Records of Austin County, Texas; LESS HOWEVER all that certain 2.00 acres of land being more fully described by metes and bound on **Exhibit "A"** attached hereto.

EASEMENT PURPOSE: Providing free and uninterrupted vehicular and pedestrian ingress to and egress from the Dominant Estate Property over and across the Property Subject to Easement to and from East School Road, a public road in Austin County, Texas.

CONSIDERATION: Ten and No/100 Dollars ($10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by Grantor.

EXCEPTIONS TO CONVEYANCE AND WARRANTY: All liens, leases, reservations, restrictions, easements, covenants, and rights of way, and other restrictions which may be duly of record in the office of the County Clerk of Austin County, Texas, and that may be located on the Property Subject to the Easement.

GRANT OF EASEMENT: Grantor, for the Consideration and subject to the Exceptions to Conveyance and Warranty and the terms of this Access Easement Agreement, grants and conveys to Grantee and Grantee's heirs, executors, administrators, successors and assigns an access easement over, upon, and across that certain 60-foot wide strip of land described more fully by metes and bounds on **Exhibit "B"**

attached hereto and incorporated herein for all purposes pertinent, which is situated within the Property Subject to the Easement described hereinabove for the Easement Purpose and for the benefit of the Dominant Estate Property, together with all and singular the rights and appurtenances thereto in any way belonging (the "Easement"), to have and hold the Easement to Grantee and Grantee's heirs, executors, administrators, successors and assigns forever. Grantor binds Grantor and Grantor's successors and assigns to warrant and forever defend title to the Easement in Grantee and Grantee's heirs, executors, administrators, successors and assigns against every person whomsoever lawfully claiming or to claim the Easement or any part thereof, except as to the Exceptions to Conveyance and Warranty.

TERMS AND CONDITIONS: The following terms and conditions apply to the Easement granted by this Access Easement Agreement ("Agreement"):

1. Character of Easement. The Easement is appurtenant to and runs with all and any portion of the Dominant Estate Property, whether or not the Easement is referenced or described in any conveyance of all or such portion of the Dominant Estate Property. The Easement is nonexclusive and is for the benefit of Grantee and Grantee's heirs, executors, administrators, successors and assigns who own all or any part of the surface of the Dominant Estate Property (hereinafter the "Holder") during the Duration of Easement.

2 Duration of Easement. The Duration of the Easement is perpetual.

3. Reservation of Rights. Grantor reserves for Grantor and Grantor's successors and assigns the right to continue to use and enjoy the surface of the Easement Property for ingress, egress, and access purposes and all other purposes that do not interfere with or interrupt the use or enjoyment of the Easement by Holder for the Easement Purpose. Grantor further reserves for Grantor and Grantor's successors and assigns the right to use all or part of the Easement in conjunction with Holder and the right to convey to others the right to use all or part of the Easement in conjunction with Holder, as long as such further conveyance is subject to the terms of this Agreement.

4. Road Maintenance. Any road within the Easement shall be constructed, maintained, repaired, and improved at the sole cost of Grantee unless Grantor and Grantee otherwise mutually agree.

5. Equitable Rights of Enforcement. The Easement may be enforced by restraining orders and injunctions (temporary or permanent) prohibiting interference and commanding compliance. Restraining orders and injunctions will be obtainable on proof of the existence of interference or threatened interference, without the necessity of proof of inadequacy of legal remedies or irreparable harm, provided, however, that the act of obtaining an injunction or restraining order will not be deemed to be an election of remedies or a waiver of any other rights or remedies available at law or in equity.

6. Attorney's Fees. If either Party retains an attorney to enforce this Agreement, the prevailing Party at the time of trial is entitled to recover reasonable attorney's fees and expenses.

7. Binding Effect. This Agreement binds and inures to the benefit of the Parties and their respective heirs, executors, administrators, successors and assigns.

8. Choice of Law. This Agreement will be construed under the laws of the State of Texas, without regard to choice-of-law rules of any jurisdiction. Venue is in Austin County, Texas.

9. Waiver of Default. It is not a waiver of or consent to default if the non-defaulting Party fails to declare immediately a default or delays in taking any action. Pursuit of any remedies set forth in this Agreement does not preclude pursuit of other remedies in this Agreement or provided by law.

10. Further Assurances. Each signatory Party agrees to execute and deliver any additional documents and instruments and to perform any additional acts necessary or appropriate to perform all of the terms, provisions, and conditions of this Agreement and all transactions contemplated by this Agreement.

11. Indemnity. Each Party agrees to indemnify, defend, and hold the other Party harmless from any loss, attorney's fees, expenses, or claims attributable to breach or default of any provision of this Agreement by the indemnifying Party.

12. Integration. This Agreement contains the complete agreement of the Parties and cannot be varied except by written agreement of the Parties. The Parties agree that there are no oral agreements, representations, or warranties that are not expressly set forth in this Agreement.

13. Legal Construction. If any provision in this Agreement is for any reason unenforceable, to the extent the unenforceability does not destroy the basis of the bargain among the Parties, the unenforceability will not affect any other provision hereof, and this Agreement will be construed as if the unenforceable provision had never been a part of the Agreement. Whenever context requires, the singular will include the plural and neuter include the masculine or feminine gender, and vice versa. Article and section headings in this Agreement are for reference only and are not intended to restrict or define the text of any section. This Agreement will not be construed more or less favorably between the Parties by reason of authorship or origin of language.

14. Counterparts. This Agreement may be executed in any number of counterparts with the same effect as if all signatory Parties had signed the same document. All counterparts will be construed together and will constitute one and the same instrument.

This instrument was prepared based on information furnished by the parties, and no independent title search has been done. Grantor and Grantee are hereby notified that the law firm of Upchurch & Yates, LLP, has not performed a title examination of the Property and does not represent or warrant in any manner status of title to the Property, and expressly makes no representation or warranty as to the existence or non-existence of any title defect or encumbrances related to the Property.

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]
[SIGNATURES AND ACKNOWLEDGMENTS ON THE FOLLOWING PAGE]

SIGNATURE AND ACKNOWLEDGMENT PAGE OF ACCESS EASEMENT AGREEMENT

GRANTOR:

Ronald Blair Woodley Co-Trustee

RONALD BLAIR WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended

Carolin Ann Woodley - Co Trustee

CAROLIN ANN WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended

GRANTEE:

Kenneth Wayne Woodley

KENNETH WAYNE WOODLEY

ACKNOWLEDGMENTS

STATE OF TEXAS

COUNTY OF WASHINGTON

The foregoing instrument was acknowledged before me on August 14, 2025, by RONALD BLAIR WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended.

JENNY R. NEWMAN
NOTARY PUBLIC - STATE OF TEXAS
NOTARY ID# 128885018
My Comm. Exp. February 10, 2028

Notary Public, State of T E X A S

STATE OF TEXAS

COUNTY OF WASHINGTON

The foregoing instrument was acknowledged before me on August 14, 2025, by CAROLIN ANN WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended.

JENNY R. NEWMAN
NOTARY PUBLIC - STATE OF TEXAS
NOTARY ID# 128885018
My Comm. Exp. February 10, 2028

Notary Public, State of T E X A S

STATE OF TEXAS

COUNTY OF WASHINGTON

This instrument was acknowledged before me on August 14, 2025, by KENNETH WAYNE WOODLEY.

JENNY R. NEWMAN
NOTARY PUBLIC - STATE OF TEXAS
NOTARY ID# 128885018
My Comm. Exp. February 10, 2028

Notary Public, State of T E X A S

AFTER RECORDING RETURN TO:
UPCHURCH & YATES, LLP
315 South Park Street
Brenham, Texas 77833
Telephone (979) 316-1300
Telefax (979) 316-1038

Exhibit "A"

METES AND BOUNDS

DESCRIPTION

OF

2.000 ACRES

(OFFICE SITE PARCEL)

IN THE

WILLIAM SMEATHERS SURVEY, ABSTRACT 90

AUSTIN COUNTY, TEXAS

BEING all that certain tract or parcel of land containing 2.000 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being out of that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 2.000 acre tract being more particularly described by metes and bounds, as follows, to wit::

BEGINNING at a ½ inch iron rod set for corner, same being the POINT OF BEGINNING and most northerly corner of the tract herein described, same being the most northerly northeast terminus of that certain 6.379 acre 60 Ft. Access Road Parcel this day herein described, from which a ½ inch iron rod found for corner bears North 52 degrees 59 minutes 16 seconds West, a distance of 30.32 feet, same being the centerline terminus of said called 6.379 acre 60 Ft. Access Road Parcel this day herein described;

THENCE, with said common line, South 41 degrees 17 minutes 05 seconds East, a distance of 249.67 feet to a 1/2 inch iron rod set for corner, same being the most easterly corner of the tract herein described;

THENCE, continuing with said common line, South 36 degrees 54 minutes 17 seconds West, a distance of 356.49 feet to a 1/2 inch iron rod set for corner, and same being the most southerly corner of the tract herein described;

THENCE, continuing with said common line, North 41 degrees 17 minutes 05 seconds West, a distance of 249.67 feet to a ½ inch iron rod set for corner, same being in the southeasterly right-of-way line of the aforementioned 6.379 acre 60 Ft. Access Road Parcel this day herein described;

Continued
Page 1 of 2

19 N. Miller Bellville, Texas 77418 A-Survey, Inc. 1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

- Page 2 of 2
- Metes and Bounds Description of 2.000 Acres
- In the William Smeathers Survey, Abstract 90, Austin County, Texas

THENCE, with said common line, and said southeasterly right-of-way line of said 6.379 acre 60 Ft. Access Road Parcel, North 36 degrees 54 minutes 17 seconds East, a distance of 356.49 feet to the POINT OF BEGINNING of the tract herein described and containing 2.000 acres of land, more or less. All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

PROJECT NO. 24160A – OFFICE SITE PARCEL

DECEMBER 20, 2024

:COMPILED BY:

STATE OF TEXAS
REGISTERED
RONALD K. BRYANT
4381
PROFESSIONAL
LAND SURVEYOR

19 N. Miller Bellville, Texas 77418 A-Survey, Inc. 1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

Exhibit "B"

METES AND BOUNDS

DESCRIPTION

OF

6.379 ACRE

(ACCESS ROAD PARCEL)

IN THE

WILLIAM SMEATHERS SURVEY, ABSTRACT 90

AUSTIN COUNTY, TEXAS

BEING all that certain tract or parcel of land containing 6.379 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being in the aggregate of that certain called 3.4 – 7.4 acre parcel as described by instrument recorded in Volume 709, Page 698 of the Official Records of Austin County, Texas, and that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 6.379 acre tract being more particularly described by metes and bounds, as follows, to wit::

COMMENCING at a ½ inch iron rod set for corner, same being the POINT OF BEGINNING and most southerly southwest terminus of the 60 Ft. Access Road Parcel herein described, same being in the northeasterly right-of-way line of East School Road (Right-of-Way Varies), and same being in a southwesterly line of said called 3.4 – 7.4 acre parcel;

THENCE, departing said northeasterly right-of-way line of said East School Road, and with the centerline of said called 6.379 acre 60 Ft. Access Road Parcel, the following:

THENCE, North 47 degrees 21 minutes 28 seconds East, a distance of 1,006.44 feet to a ½ inch iron rod set for corner, same being a point of curvature in the arc of a curve to the right;

THENCE, along the arc of a curve to the right, a radius of 300.00 feet, an arc length of 184.60 feet, a chord length of 181.70 feet, a chord bearing of North 64 degrees 59 minutes 10 seconds East, a delta angle of 35 degrees 15 minutes 23 seconds to a ½ inch iron rod set for corner at a point of tangency;

THENCE, North 82 degrees 36 minutes 51 seconds East, a distance of 560.40 feet to a ½ inch iron rod set for corner, same being a point of curvature on the arc of a curve to the left;

Page 1 of 2
Continued

19 N. Miller Bellville, Texas 77418 A-Survey, Inc. 1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

- Page 2 of 2
- Metes and Bounds Description of a 6.379 Acre Parcel
- In the William Smeathers Survey, Abstract 90, Austin County, Texas

THENCE, along the arc of a curve to the left, a radius of 250.00 feet, an arc length of 245.89 feet, a chord length of 236.10 feet, a chord bearing of North 54 degrees 26 minutes 14 seconds East, a delta angle of 56 degrees 21 minutes 13 seconds to a ½ inch iron rod set for corner, same being a point of tangency;

THENCE, North 26 degrees 15 minutes 38 seconds East, a distance of 641.48 feet to a ½ inch iron rod set for corner, same being a point of curvature on the arc of a curve to the right;

THENCE, along the arc of a curve to the right, a radius of 500.00 feet, an arc length of 95.31 feet, a chord length of 95.16 feet, a chord bearing of North 31 degrees 43 minutes 16 seconds East, a delta angle of 10 degrees 55 minutes 17 seconds to a ½ inch iron rod set for corner, same being a point of tangency;

THENCE, North 37 degrees 00 minutes 44 seconds East, a distance of 1,896.72 feet to a ½ inch iron rod set for corner, same being the point of terminus of said 6.379 acre 60 Ft. Access Road Parcel;

All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

PROJECT NO. 24160A – ACCESS ROAD PARCEL

DECEMBER 20, 2024

:COMPILED BY:

STATE OF TEXAS
REGISTERED
RONALD K. BRYANT
4361
PROFESSIONAL
LICENSED SURVEYOR

19 N. Miller Bellville, Texas 77418 A-Survey, Inc. 1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

FILED AND RECORDED

Instrument Number: 253771

Instrument Type: AGREEMENT

Filing and Recording Date: 08/14/2025 12:04 PM

Number of Pages: 10

GRANTOR WOODLEY, RONALD BLAIR

GRANTEE WOODLEY, KENNETH WAYNE

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Austin County, Texas.

Diane Day

Diane Day, County Clerk
Austin County, Texas

NOTICE: It is a crime to intentionally or knowingly file a fraudulent court record or instrument with the Clerk.

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GIFT DEED

DATE: August 14, 2025

GRANTOR: RONALD BLAIR WOODLEY and CAROLIN ANN WOODLEY, Co-Trustees of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended
122 South Mathews Street
Bellville, Austin County, Texas 77418

GRANTEE: KENNETH WAYNE WOODLEY, as his sole and separate property
P.O. Box 213
Bellville, Austin County, Texas 77418

CONSIDERATION: The love and affection which Grantor has and bears towards their son, Kenneth Wayne Woodley.

PROPERTY (INCLUDING ANY IMPROVEMENTS)

All that certain tract or parcel of land, lying and being situated in Austin County, Texas, out of the William Smeathers League, Abstract No. 90, containing 2.000 acres of land, more or less, being more fully described by metes and bound in Exhibit "A" attached hereto and incorporated herein for all purposed pertinent.

RESERVATIONS FROM CONVEYANCE: NONE

EXCEPTIONS TO CONVEYANCE AND WARRANTY:

This conveyance is executed by Grantor and accepted by Grantee as being subject to all liens, leases, reservations, restrictions, easements, covenants, rights of way, and other restrictions and encumbrances which may be duly of record in the office of the County Clerk of Austin County, Texas, that affect the Property and/or that may be located on the Property.

Grantor, subject to the Reservations from Conveyance and Exceptions to Conveyance and Warranty, gives, grants, transfers and conveys to Grantee, as his sole and separate property, the Property, together with all and singular the rights and appurtenances thereto in any wise belonging, to have and hold it to Grantee and Grantee's heirs, executors, administrators, successors and assigns forever. Grantor binds Grantor and Grantor's successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, executors, administrators, successors and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through, or under Grantor, but not otherwise, except as to the Reservations from Conveyance and Exceptions to Conveyance and Warranty.

In connection with this deed, Grantor and Grantee are entering into an access easement agreement that provides access for the Property to East School Road, a public road.

This instrument was prepared based on information furnished by Grantor, and no independent title search has been done. Grantor and Grantee are hereby notified that the law firm of Upchurch & Yates, LLP, has not performed a title examination of the Property and does not represent or warrant in any manner status of title to the Property, and expressly makes no representation or warranty as to the existence or non-existence of any title defect or encumbrances related to the Property.

Ronald Blair Woodley Co-Trustee

RONALD BLAIR WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended

Carolin Ann Woodley - Co Trustee

CAROLIN ANN WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended

STATE OF TEXAS

COUNTY OF WASHINGTON

The foregoing instrument was acknowledged before me on August 14, 2025, by RONALD BLAIR WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended.

JENNY R. NEWMAN
NOTARY PUBLIC - STATE OF TEXAS
NOTARY ID# 128885018
My Comm. Exp. February 10, 2028

Notary Public, State of T E X A S

STATE OF TEXAS

COUNTY OF WASHINGTON

The foregoing instrument was acknowledged before me on August 14, 2025, by CAROLIN ANN WOODLEY, Co-Trustee of the Amended and Restated Woodley Living Trust U/T/A dated March 1, 2018, as amended.

JENNY R. NEWMAN
NOTARY PUBLIC - STATE OF TEXAS
NOTARY ID# 128885018
My Comm. Exp. February 10, 2028

Notary Public, State of T E X A S

AFTER RECORDING RETURN TO:
UPCHURCH & YATES, LLP
315 South Park Street
Brenham, Texas 77833
Telephone (979) 316-1300
Telefax (979) 316-1038

Exhibit "A"

METES AND BOUNDS

DESCRIPTION

OF

2.000 ACRES

(OFFICE SITE PARCEL)

IN THE

WILLIAM SMEATHERS SURVEY, ABSTRACT 90

AUSTIN COUNTY, TEXAS

BEING all that certain tract or parcel of land containing 2.000 acres of land, more or less, in the William Smeathers Survey, Abstract 90, Austin County, Texas, same being out of that certain Parcel One called 200 acre parcel as described by instrument recorded in Clerk's File No. 035302 of the Official Records of Austin County, Texas, said 2.000 acre tract being more particularly described by metes and bounds, as follows, to wit::

BEGINNING at a ½ inch iron rod set for corner, same being the POINT OF BEGINNING and most northerly corner of the tract herein described, same being the most northerly northeast terminus of that certain 6.379 acre 60 Ft. Access Road Parcel this day herein described, from which a ½ inch iron rod found for corner bears North 52 degrees 59 minutes 16 seconds West, a distance of 30.32 feet, same being the centerline terminus of said called 6.379 acre 60 Ft. Access Road Parcel this day herein described;

THENCE, with said common line, South 41 degrees 17 minutes 05 seconds East, a distance of 249.67 feet to a 1/2 inch iron rod set for corner, same being the most easterly corner of the tract herein described;

THENCE, continuing with said common line, South 36 degrees 54 minutes 17 seconds West, a distance of 356.49 feet to a 1/2 inch iron rod set for corner, and same being the most southerly corner of the tract herein described;

THENCE, continuing with said common line, North 41 degrees 17 minutes 05 seconds West, a distance of 249.67 feet to a ½ inch iron rod set for corner, same being in the southeasterly right-of-way line of the aforementioned 6.379 acre 60 Ft. Access Road Parcel this day herein described;

Continued

19 N. Miller Bellville, Texas 77418 A-Survey, Inc. 1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

- Page 2 of 2
- Metes and Bounds Description of 2.000 Acres
- In the William Smeathers Survey, Abstract 90, Austin County, Texas

THENCE, with said common line, and said southeasterly right-of-way line of said 6.379 acre 60 Ft. Access Road Parcel, North 36 degrees 54 minutes 17 seconds East, a distance of 356.49 feet to the POINT OF BEGINNING of the tract herein described and containing 2.000 acres of land, more or less. All Bearings Noted Herein are Based on the Texas Coordinate System of 1983, South Central Zone 4204. Refer to Boundary Survey Plat, Prepared by A-Survey, Inc, Dated December 20, 2024.

PROJECT NO. 24160A – OFFICE SITE PARCEL

DECEMBER 20, 2024

::COMPILED BY::

STATE OF TEXAS
REGISTERED
RONALD K. BRYANT
4381
PROFESSIONAL
LAND SURVEYOR

19 N. Miller Bellville, Texas 77418 A-Survey, Inc. 1-979-865-8111 1-800-427-8783

T.B.P.E.L.S. Firm Reg./Lic. No. 10076700

FILED AND RECORDED

Instrument Number: 253770

Instrument Type: DEED

Filing and Recording Date: 08/14/2025 12:04 PM

Number of Pages: 5

GRANTOR WOODLEY, RONALD BLAIR

GRANTEE WOODLEY, KENNETH WAYNE

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Austin County, Texas.

Diane Day

Diane Day, County Clerk
Austin County, Texas

NOTICE: It is a crime to intentionally or knowingly file a fraudulent court record or instrument with the Clerk.

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ATTACHMENT IB-3

Attachment IB-3

Austin CAD Legal Ownership

Revised 8/18/25
Perlim- Review 31732866

Austin County CAD

Not updated at time of revisions.

ATTACHMENT IC

Attachment IC

Legal Authority

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697

Jane Nelson
Secretary of State

Office of the Secretary of State

CERTIFICATE OF FILING
OF

7 R Solutions LLC
File Number: 805192923

The undersigned, as Secretary of State of Texas, hereby certifies that a Certificate of Formation for the above named Domestic Limited Liability Company (LLC) has been received in this office and has been found to conform to the applicable provisions of law.

ACCORDINGLY, the undersigned, as Secretary of State, and by virtue of the authority vested in the secretary by law, hereby issues this certificate evidencing filing effective on the date shown below.

The issuance of this certificate does not authorize the use of a name in this state in violation of the rights of another under the federal Trademark Act of 1946, the Texas trademark law, the Assumed Business or Professional Name Act, or the common law.

Dated: 08/21/2023

Effective: 08/21/2023

Jane Nelson
Secretary of State

EXHIBIT A
MEMBERS of 7 R SOLUTIONS LLC

Member's Name and Address	Initial Capital Contribution	Percentage Interest
KENNETH W. WOODLEY 2178 Wietstruck Road Bellville, Texas 77418	As reflected in the books of the Company	25%
STACY P. WOODLEY 2178 Wietstruck Road Bellville, Texas 77418	As reflected in the books of the Company	25%
BLAKE M. GIESE 388 Oil Field Road Bellville, Texas 77418	As reflected in the books of the Company	25%
JORDAN E. GIESE 388 Oil Field Road Bellville, Texas 77418	As reflected in the books of the Company	25%

ATTACHMENT ID

Attachment ID

Property Owner Affadavit

Property Owner Affidavit

"I, Kenneth Woodley, as _____,
(Printed Signatory Name) (Signatory Capacity)
As authorized signatory for _____,

Acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that I or the operator and the State of Texas shall have access to the property during the active life, and after closure for the purpose of inspection and maintenance, if required.

Kenneth Woodley
(Property Owner's Signature)

8-5-25
(Date)

ATTACHMENT IE

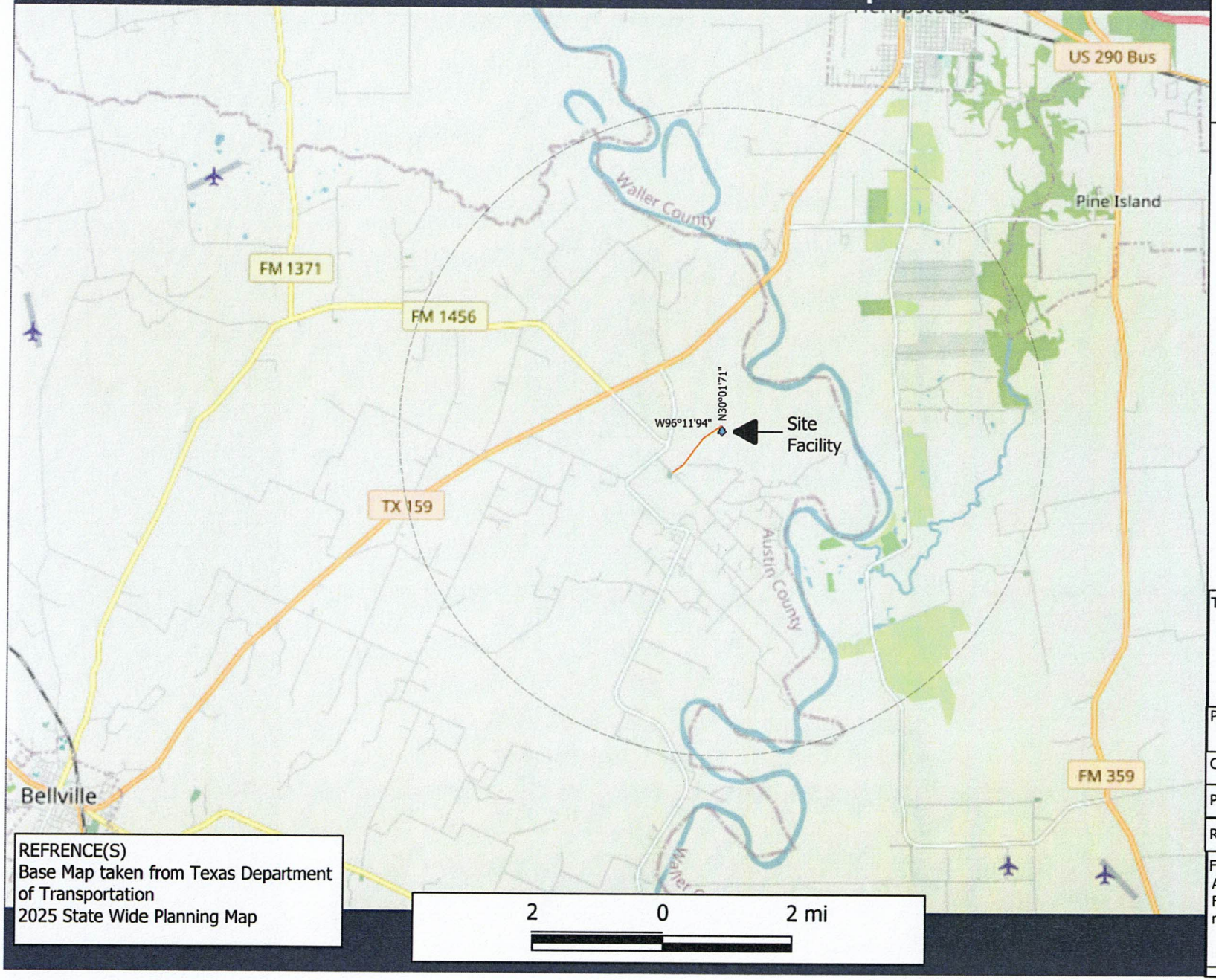
Attachment IE

Application Fee Payment

PART I - FIGURES

I-1	General Location Map
I-2	Site Location Map
I-3	Aerial Photograph
I-4	General Topographic Map
I-5	Drainage, Pipeline, Access and Utility Easement Location Map

Austin County Waste Solutions- General Map Location



REFRENCE(S)
Base Map taken from Texas Department of Transportation
2025 State Wide Planning Map

Legend:
- Site Location
- Access Road to Facility
- 5 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

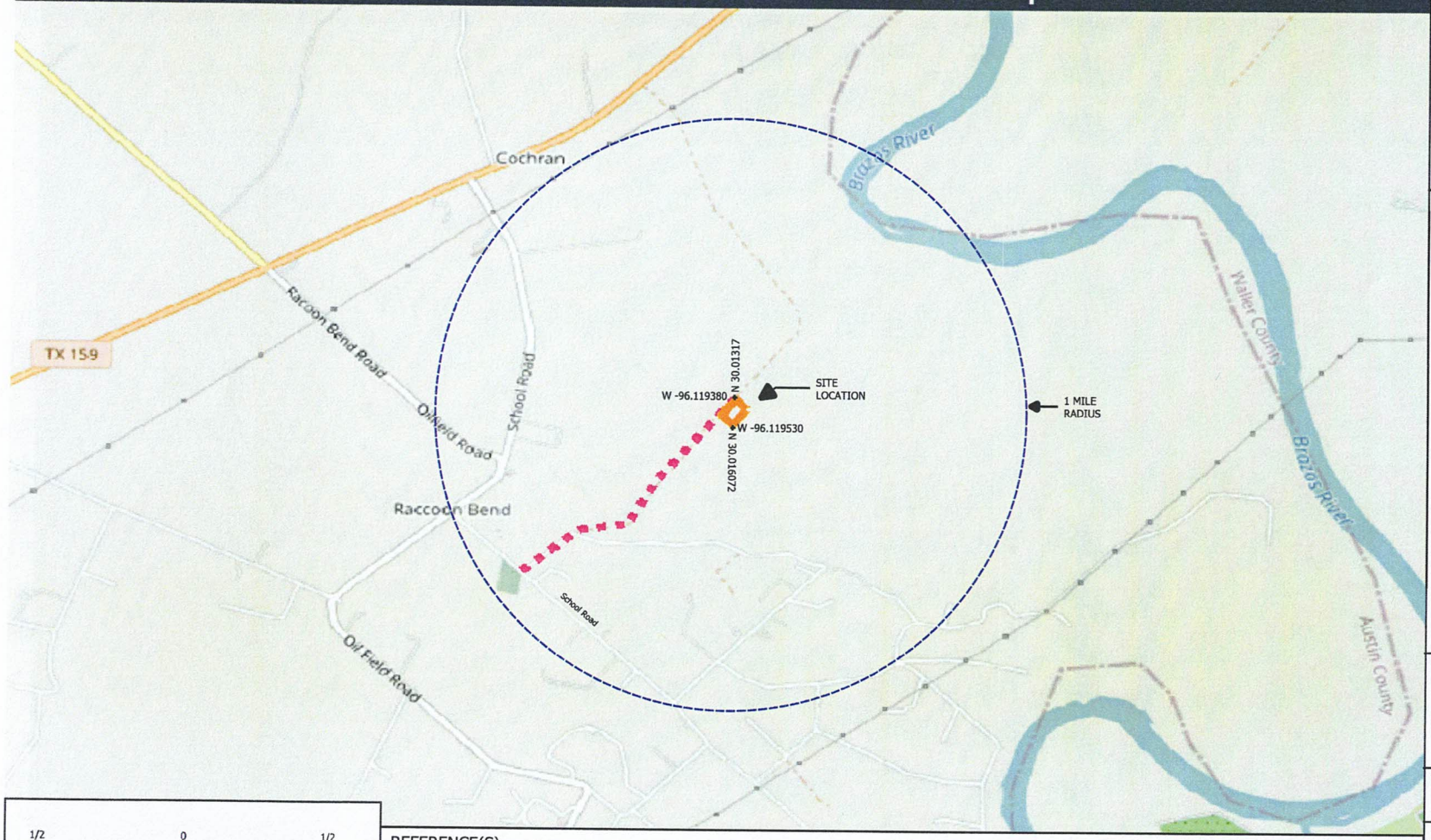
N

Title: General Location Map
Austin County Waste Solutions
Type V REGIRISTRATION APPLICATION
Austin County, Texas

Prepared for: 7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure
File: ACWS Liquid Processing Facility- General location map.pdf	I-1

Austin County Waste Solutions- Site Location Map



Legend:

- Site Location Boundaries
- Access Road to Facility
- 1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

1/2 0 1/2 MILES

REFERENCE(S)
BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP. DOWNLOADED FROM https://www.txdot.gov/apps/statewide_mapping

Title:
Site Location Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 1/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure I-2
File: ACWS Liquid Processing Facility- Site Location Map.pdf	

Legend:

- Property and Registration Boundary
- Access Road
- 1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:

Topographical Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

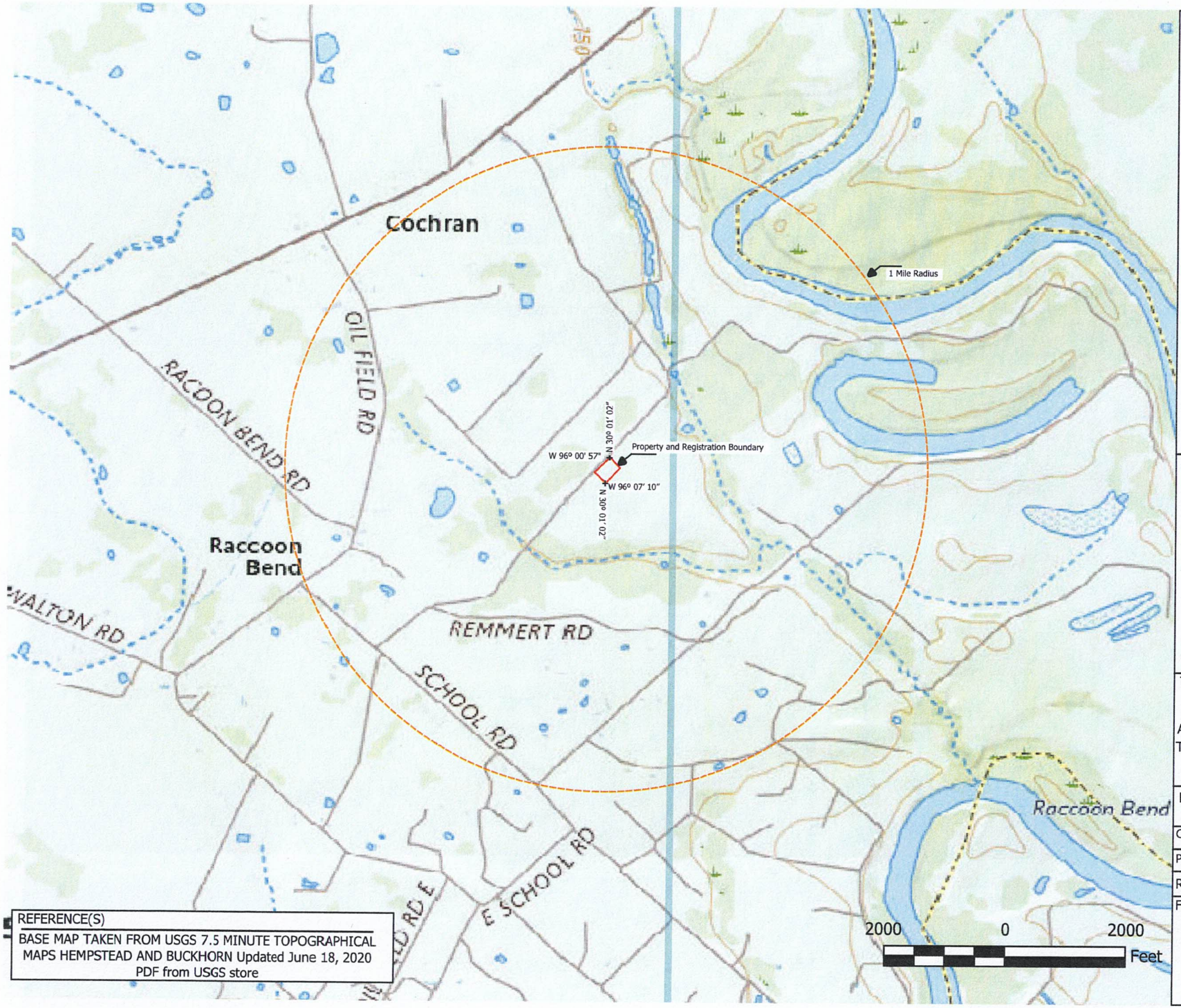
Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	
File: ACWS Liquid Processing Facility-Topographical Map.pdf	Figure: I-3

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.

2640 0 2640 Feet



REFERENCE(S)

BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHICAL MAPS HEMPSTEAD AND BUCKHORN Updated June 18, 2020 PDF from USGS store

Legend:

Property and Registration Boundary

1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:

Topographical Map

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure:
File: ACWS Liquid Processing Facility-Topographical Map.pdf	I-4

TYPE V LIQUID PROCESSING REGISTRATION APPLICATION, PART II REPORT

Austin County Waste Solutions

Type V Liquid Waste Processing Facility
Bellville, Texas
Austin County

Prepared by:

7 R Solutions, LLC
3655 Woodley Ln
Bellville, Texas 77418

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

Intended for Permitting Purposes Only
December 2024

Type V Liquid Waste Processing Registration Application, Part II

Austin County Waste Solutions

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ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
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LICENSED
PROFESSIONAL ENGINEER
F-10131
7/10/25

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ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

Part II Report

1. Waste Acceptance Plan

30 TAC 330.61(b)

The Austin County Waste Solutions liquid processing facility ("Facility" or "Site") occupies one acre of the two-acre tract owned by Kenneth Woodley. The Facility is located off School Road. The Facility will include process frac tanks, office 1 building, and a gated entrance. The Site Layout Plan is provided as Figure II-1.

The facility can be accessed through one driveway from a public road. There is an entry point on School Road. Waste-carrying vehicles will approach from Highway 159 will turn South on School Road and follow it to the main entrance to enter the facility.

Entering the Facility, the vehicles will back up to the unloading area, unload waste through a four⍰inch hose into the liquid screening area. The unloaded vehicles will leave the Facility using the same road entered on.

1.1 Sources and Characteristics of Wastes

30 TAC §330.61(b)(1)

The acceptable waste characteristics, waste restrictions, general sources and service areas, waste rates, and storage and disposal requirements for the proposed Facility are summarized in the following sections. There are no known waste constituents or characteristics in the acceptable waste stream that could be a limiting parameter that may impact or influence the design and operation of the Facility.

1.1.1 Waste Types and Generation Areas

This Facility will be authorized to receive permitted wastes as defined below. The Facility will be open for waste acceptance Monday through Friday 7 a.m. to 7 p.m.
The Facility will accept waste from Austin County and the counties included in the Brazos Valley Council of Governments (BVCOG) and Houston-Galveston Area Council of Governments (HGACG).

Waste acceptance and subsequent processing for re-use is based upon the types of wastes that make up the incoming waste stream. General operations will be conducted in a manner that allows the prompt and efficient unloading of waste. The waste will be unloaded from the customers pump truck into the Facility pre-treatment (trash tank) either A or B Tank. It is expected that all liquid waste will be processed, treated and disposed of daily.

The average length of time liquid septage waste will remain on Facility is one day. This includes the time for waste processing and disposal.

The composition of permitted waste the Facility has received for material recovery consists of the following types of materials:

- Septic tank pumping; Domestic Septage

These wastes are referred to as permitted wastes in the remainder of this RA.

The Facility will not accept the following wastes:

• Untreated Lumber – Untreated lumber includes boards, strip lumber, plywood, particleboard, and paneling;

• Untreated Sheetrock – Untreated sheetrock will be recycled, any painted or chemically treated

sheetrock will not be recycled;

• Cardboard;

• Clean Wood and Clean Brush Debris – Clean wood and clean brush debris includes trees, branches,

limbs, leaves, grass cuttings, brush, and other organic vegetation;

• Inert Fill Materials – Inert fill materials include bricks, stones, concrete, soil, gravel, sand, and dirt;

• Treated Lumber – Treated lumber includes boards and strip lumber that has been treated with chemical agents. Also included in this category is lumber, plywood, or other process wood materials with painted surfaces;

• Durable Plastics and Metals – Durable plastics and metals include polyvinyl chloride (PVC), high density polyethylene (HDPE), and linear low density polyethylene (LLDPE) pipe, metal pipe and frames, sheet metal, and other similar materials. This material usually comes in the form of pipes, fittings, buckets, and sheet metal;

• Source-Separated Recyclable Materials: Source-separated materials consisting of bottles, cans, containers from specific strategic located locations that are solely designated for recycle; and

• Other – Miscellaneous debris includes paper, glass, plastic sheeting, felt, shingles, paint cans, tubes, e-waste, ballast, fluorescent light fixtures, or other spent construction related products or containers.

• Household garbage;

• Putrescible wastes;

• Special wastes;

• Special waste from health-care-related facilities;

• Municipal wastewater treatment plant sludges, other types of domestic sewage treatment plant

sludges, and water-supply treatment plant sludges;

• Grease and grit trap wastes;

• Wastes from commercial or industrial wastewater treatment plants; air pollution control facilities; and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 Code of Federal Regulations (40 CFR), Part 261, Appendix VIII but has not been listed as a commercial chemical product in 40 CFR, §261.33(e) or (f);

• Slaughterhouse wastes;

• Dead animals;

• Pesticide (insecticide, herbicide, fungicide, or rodenticide) containers in accordance with 30 TAC §330.136(b)(5);

• Discarded materials containing asbestos;

• Incinerator ash;

• Soil contaminated by petroleum products, crude oils, or chemicals;

• Hazardous waste;

• PCB waste;

• Radioactive waste;

• Unknown chemical or containerized waste;

• White goods containing chlorinated fluorocarbons (CFCs);

• Used oil filters;

• Used oil;

• Class 1 non-hazardous industrial waste;

• Class 2 non-hazardous industrial waste; and

• Regulated Asbestos Containing Materials (RACM).

1.2 Projected Waste Acceptance Rate 30 TAC §330.61(b)(1)(A) – (B)

The Facility is planned to primarily serve Austin County, and the counties included in the Houston-Galveston Area Council of Governments(HGACG) and Brazos Valley Council of Governments (BVCOG). The projected maximum amount of waste to be received daily and annually for the next five years of the Facility operation is presented in Table II-1.

Table II-1. Waste Acceptance Rate Projection

Year of Operation	Projected Maximum Daily Waste Acceptance Rate (G)	Projected Maximum Annual Waste Acceptance Rate (G)*
1st year	20,000	6,240,000
2nd year	40,000	12,480,000
3rd year	40,000	12,480,000
4th Year	40,000	12,480,000
5th Year	40,000	12,480,000

Note: * Assume 312 Days per year (Mon- Sat)

Based upon the generation rates discussed above, considering the average gallons of the incoming waste stream of approximately 3,500 gallons per truck and the average of 2,000 gallons of water domestic septage waste generated daily per household, the population equivalent served by the Facility is calculated as follows:

Population Equivalent = ((40,000 Gallons x 8.34 lbs per gallon) Daily /(2000 Gallons x 8.34 lbs per gallon per household/ day) x 30 lbs of solids debris/grease per household=600 lbs daily of debris

339,200 lbs of Septage/ 600 lbs of debris= 5,653 % recoverable by weight to recycle in beneficial land use.

The Facility will recover a minimum of 10% or more by weight of the incoming waste stream. The recovered waste streams (solid debris/grease) will be sent to TCEQ approved landfills for disposal.

1.3 Registration Application Qualification

30 TAC §330.61(b)(2)

The Austin County Waste Solutions Type V liquid waste processing Facility qualifies for a registration in accordance with §330.9(e) as it meets all of the following requirements:

Materials recovery at the facility will be 10% or more by weight or weight equivalent of the total incoming waste stream for reuse or recycling.

Transfer remaining non-recyclable waste to a landfill not more than 50 miles from the Facility. At the present time, the Facility proposed to utilize the following permitted landfills for disposing of their non-recycled materials:

Table II-2. TCEQ Permitted Landfill for Waste Disposal

Landfill Name	Type	Permit Number	Distance to Landfill
Fort Bend Regional Landfill	**Class 1**	**2270**	**48.6 Miles**

Source: TCEQ, Feb 2022, Active Municipal Solid Waste Landfills in Texas

2. Existing Conditions Summary

30 TAC §330.61(a)

The Austin County Waste Solutions Facility occupies 2.0 acres. The Facility is operated by 7 R Solutions, LLC which is located at 3655 Woodley, Ln approximately 1500 feet south east west of the intersection of School Rd and Oil Field Rd in Bellville, Austin County, Texas.

The Facility is currently not operating. Waiting for approval for construction.

The following sections summarize existing site conditions of both the proposed facility and the surrounding area that may require special design considerations and possible mitigation of conditions identified in accordance with §330.61(h)-(o).

2.1 Maps and Figures

30 TAC §330.61

The following maps and figures are provided in this application. These maps and figures are provided in addition to those maps provided in Part I. Collectively, these maps accurately show the

proximity of the Facility to surrounding features. Table II-3 below lists the general location maps and other specific maps required by §330.59, pertaining to contents of Part I of the application, and §330.61, pertaining to Part II of the application.

Table II-3. List of Maps and Figures

Figure	Title	Citation
Part II Maps and Figures		
Facility Layout Maps 30 TAC §330.61(d)		
II-1	Site Layout Plan	30 TAC §330.61(d)(1-8)
General Topographic Maps 30 TAC §330.61(e)		
II-2A	General Topographic Map	30 TAC §330.61(e)
Aerial Photograph 30 TAC §330.61(f)		
II-3	Aerial Photograph	30 TAC §330.61(f)
General Location Maps 30 TAC §330.61(c)		
II-4	Wind Rose	30 TAC §330.61(c)(1)
II-5	Water Well and Oil and Gas Well Location Map	30 TAC §330.61(c)(2)
II-6	Structures Location Map	30 TAC §330.61(c)(3)
II-7	Land Use Map	30 TAC §330.61(c)(4), (12),§330.61(g)
II-8	Traffic Volumes Map	30 TAC §330.61(c)(5),(11)
II-9	FAA Map	30 TAC §330.61(c)(8)
II-10	Drainage, Pipeline, and Utility Easements Map	30 TAC §330.61(c)(10)
Land Use Map 30 TAC §330.61(g)		
II-7	Land Use Map	30 TAC §330.61(c)(4), (12),§330.61(g)
II-11	Zoning Map	30 TAC §330.61(h)(1)
Other Maps and Figures 30 TAC §330.61		
II-12	Soils Map	30 TAC §330.61(j)
II-13	Floodplain Map	30 TAC §330.61(m)
II-14A	Site Development Plan-Proposed Site Layout	30 TAC §330.61 (c)(11), §330.61 (d)
Part I Maps and Figures		
I-1	General Location Map	30 TAC §330.59(c)(2)
I-2	Site Location Map	30 TAC §330.59(c)(2)
I-3	Areial Photographic Map	Map 30 TAC §330.59(c)(3)
Attachment IB-1	Exhibit Plat of Registration Boundary Survey	30 TAC §330.59(d)(1)

2.1.1 General Location Maps 30 TAC §330.61(c)

• **Figure II-4** wind rose figure shows the prevailing wind direction – §330.61(c)(1)

• **Figure II-5** shows all known water wells within 500 feet of the registration boundary, as well as oil and gas wells – §330.61(c)(2)

• **Figure II-6** shows all structures and inhabitable buildings within 500 feet of the registration boundary – §330.61(c)(3)

• **Figures II-7 and II-11** in addition to showing general land use, identifies locations of schools, licensed day-care facilities, churches, hospitals, cemeteries, ponds, lakes, and residential, commercial, and recreational areas within one mile of the Facility – §330.61(c)(4)

• **Figure II-8**, in addition to showing traffic volumes, identifies the location and surface type of all roads within one mile of the facility that will be used to access the Facility – §330.61(c)(5)

• **Figure II-2** is the general topographic map that shows area streams – §330.61(c)(7)

• **Figure II-9** is the Federal Aviation Administration (FAA) map that shows airports within six miles of the Facility – §330.61(c)(8)

• **Figure II-10** drainage, pipeline, and utility easements within or adjacent to the Facility; §330.61(c)(10)

Multiple maps and figures provide:

• The latitudes and longitudes – §330.61(c)(6)

• The property boundary of the Facility – §330.61(c)(9)

• Facility access control features – §330.61(c)(11)

• There are no archeological sites, historical sites, or sites with exceptional aesthetic qualities adjacent to the Facility that have been identified. – §330.61(c)(12)

2.1.2 Facility Layout Maps 30 TAC §330.61(d)

Figures II-9 and II-9A present the Facility layout plans that show

• The outline of solid waste management units – §330.61(d)(1),

• The location of interior roads – §330.61(d)(2),

• There are no monitor wells within the layout area – §330.61(d)(3),

• The location of all Facility buildings – §330.61(d)(4),

• The sequence of development – §330.61(d)(5), - no additional information added

• The location of all Facility fencing – §330.61(d)(6),

• Screening the Facility from public view – §330.61(d)(7), and

• The location of Site entrance roads – §330.61(d)(8).

2.1.3 General Topographic Map 30 TAC §330.61(e)

Provide a general topographic map: USGS 7.5 minute or equivalent one map at scale 1 in. = 2,000 ft.

Figure II-2, General Topographic Map depicts the registration boundary with a base map taken from the United States Geological Survey (USGS) 7-1/2-minute quadrangle sheets and enhanced by Texas Natural Resource Information System (TNRIS) using content last updated by USDS in 2020 for Hempstead, TX and Buckhorn, TX, delivered in a digital raster graphic (DRG) a scale of 1-inch equals 2,000 feet.

2.1.4 Aerial Photograph 30 TAC §330.61(f)

Provide Aerial Photograph(s) that are at least 9 in. by 9 in. at a scale range of one inch = 1,667-3,334 ft. that covers an area at least one mile in radius of the site. Facility boundary and fill areas (as applicable) must be shown.

Figure II-3, Aerial Photograph, with a 1-inch scale equals 2,000 feet, shows the registration boundary and an area of at least a 1-mile-radius of the site boundaries, with a base map taken from google earth dated May 2024. The registration boundary, waste operation areas, and offset boundary are marked on the aerial photograph.

2.1.5 Land Use Map 30 TAC §330.61(g)

Figures II-7 and II-11 Land Use Map, depicts the registration and property boundary, as well as the land use of surrounding areas up to 1 mile from the registration boundary.

A land use compatibility analysis was performed for the proposed facility and surrounding area. The results of the analysis are summarized in Section **2.2**.

Any drainage, pipeline, and utility easements within the Facility are shown on **Figure II-10**, Drainage, Pipeline, and Utility Easement Location Map. Access roads serving the Facility are shown on the Land Use Map and **Figure II-8**, Traffic Volumes Map.

2.2 Impact on Surrounding Area 30 TAC §330.61(h)

Information provided in this section shows the likely impacts of the Facility on cities, communities, groups of property owners, or individuals by analyzing the compatibility of land use, zoning in the vicinity, community growth patterns, and other factors associated with public interests.

As documented, there are no existing site-specific conditions that may impact surrounding cities, communities, groups of property owners, or individuals; nor concern that the use of land for the Facility will adversely impact human health or the environment.

2.2.1 Zoning 30 TAC §330.61(h)(1)

The Facility is located outside the extraterritorial jurisdiction of Bellville in an unincorporated area of Austin County, Texas. Since the property is located in an unincorporated area of Austin County, there are no zoning restrictions. The Facility has no restrictive covenants or land use restrictions in effect for the Facility location.

A published zoning Map for the Facility and a 2-mile radius is not available.

2.2.2 Land Use Characterization 30 TAC §330.61(h)(2),(4)

This section discusses site-specific land use characterization including surrounding land use, zoning in the vicinity, community growth patterns, and proximity to residents and other uses. As documented, the Facility is compatible with the surrounding area.

There is no map to present at this time, as there are no published maps available for reference. In accordance with 30 TAC 330.61(h)(2) and (4), maps may be provided only when published sources are available. With in a one mile radius our estimates are approximately 85 residences, 3 commercial and industrial businesses, 1 historical marker, 1 natural lake and two cemeteries. There are no hospitals, day-care facilities, or currently used religious institutions within a one-mile radius of the Facility boundary.

The majority of the surrounding area within a one-mile radius of the Facility registration boundary is pastureland. The next largest component of land use is residential. A breakdown of the land use within the one-mile radius is shown on **Table II-4**.

Table II-4. Land Use Within a One-Mile Radius

Land Use	Area (in acres)	Land Classification	Area (in acres)	Percentage of Total Land Use
Industrial	0		0	0%
Commercial	30.30	Business	30.30	1.53%
Residential	85	Homes	85	4.23%
Agricultural	1,892.7	Cattle/Hay	1,892.7	94.23%
Other	0	0	0	0%
Total	2,008		2,008	

2.2.3 Growth Trends within Five Miles 30 TAC §330.61(h)(3)

The Facility and the entire five-mile radius of the registration boundary are in Austin and Waller County, Texas. The Facility is outside the ETJ of the City of Bellville and unincorporated.

The City of Bellville has information available for the yearly populations from 2014 to present. **Table II-5** summarizes the population estimates for Bellville within the last decade.

Table II-5. Bellville Population Estimates

Year	Bellville	Annual Percentage Increase	Year	Bellville	Annual Percentage Increase
2014	4,165		2015	4,224	1.40%
2016	4,227	0.07%	2017	4,234	0.17%
2018	4,262	0.66%	2019	4,219	-1.00%
2020	4,206	-0.30%	2021	4,149	-1.36%
2022	4,208	1.42%	2023	4,217	0.21%

Source: Demographics – texas- demographics

The population of Bellville has been growing and declining at an average of 0.20% annually since 2014. Using an estimated annual percentage growth of 0.20%, the projected population of Bellville would be:

2024 estimated population = 4,217 × 0.20 = 4,225

2025 estimated population = 4,225 × 0.20 = 4,233

2026 estimated population = 4,233 × 0.20 = 4,241

2027 estimated population = 4,241 × 0.20 = 4,249

2028 estimated population = 4,249 × 0.20 = 4,257

Population projections for Austin County have also been considered. Under the Texas Population Projections Program, the Texas Demographic Center (TDC), Office of the State Demographer has produced yearly population projections by county for the entire State of Texas. **Table II-6** summarizes the population projections for Austin County, taken from this program dated 2022.

Table II-6. TDC Austin County Population Projections

Year	Austin County	Annual Percentage Increase	Year	Austin County	Annual Percentage Increase
2020	30,167		2021	30,254	0.28%
2022	30,307	0.18%	2023	30,361	0.18%
2024	30,408	0.15%	2025	30,451	0.14%
2026	30,506	0.18%	2027	30,557	0.17%
2028	30,581	0.08%	2029	30,625	0.14%

2.2.4 Proximity to Residences and Other Uses

30 TAC §330.61(h)(4)

In accordance with 30 TAC §330.61(h)(4), the following paragraphs describe certain specific uses of the properties within a one-mile radius of the facility. The locations of ponds, residences, churches, cemeteries, other institutional areas, historic sites, archaeologically significant sites, commercial, and industrial areas within a one-mile radius of the facility are shown on a Land Use Map (**Figure II-7A**) and are discussed in further detail in the following paragraphs.

No known parks or recreational areas, hospitals, or sites with exceptional aesthetic qualities were identified within one mile of the site.

2.2.4.1 Ponds and Lakes

There are numerous ponds or bodies of water located within the one-mile radius around the site.

A portion of the Brazos River is located within one mile from the registration boundary. The Brazos River runs north to south and is located North of the Facility. Figure II-2 displays a General Topographic Map showing the ponds and rivers.

2.2.4.2 Residential

As of December 2024, there are approximately 85 residences within a one-mile radius of the Facility. The nearest existing residence is approximately 2,498 feet southwest of the facility and is owned by Kenneth Woodley (ACWS Owner). The residential area can be determined using 2022 Aerial Image presented on **Figure II-3** and **Figure II-7A**.

The majority of the residences within one mile of the Facility are single-family.

2.2.4.3 Schools

There are no schools located within one mile of the facility.

2.2.4.4 Churches

Richard Grove Methodist Church is the only church located within one mile of the facility. This church is abandoned and no longer holds services. The Pleasant Grove Cemetery is right next to the church and has periodic burials.

2.2.4.5 Licensed Day Care Facilities

There are no known licensed day care facilities located within a one-mile radius of the Facility.

2.2.4.6 Parks and Recreational Areas

There are no known parks or recreational areas located within a one-mile radius of the Facility.

2.2.4.7 Cemeteries

There are two cemeteries within the one mile radius of the facility. Richard Grove/Pleasant Grove Cemetery is located approximately 4,262 feet from the facility. Stone-Motley Cemetery is located approximately 3,831 feet from the facility.

2.2.4.8 Commercial and Industrial

There are 3 businesses located within the one mile radius of the facility. Anvil Pile Driving, LLC is located almost exactly one mile from the facility. The second business is Pyrock Chemical located approximately 4,680 feet from the facility. The last business is Enhanced Energy Partners Corp located approximately 3,530 feet from the facility.

2.2.4.9 Historic Site and Cultural Resources

A cultural resources background study was performed for a one mile radius around the facility and submitted to the Texas Historical Commission. According to the study's findings, there is 1 historical marker and 2 cemeteries located within one mile of the facility. No known sites or historic properties will be impacted by the project. Consequently, "no further archeological study is recommended prior to construction activities." A full cultural resources background study is provided in **Attachment IIA-2**.

2.2.4.10 Former Waste Disposal Units on the Facility

There are no former waste disposal units on the Facility.

2.2.5 Wells Within 500 Feet 30 TAC §330.61(h)(5)

Wells located near the Facility are discussed in this section, as well density may be considered for assessment of compatibility. Consistent with 30 TAC §330.61(h)(5), the locations of wells within, at minimum,500 feet of the registration boundary were determined based on a well database search.

The Water Well and Oil and Gas Well Location Map, **Figure II-5**, depicts the location of wells within 500 feet of the Facility, and all wells within a one-mile radius of the proposed facility boundary. A list of the wells is also included on the figure.

2.2.5.1 Water Wells

The water well locations were identified through a water well search which was performed for the area around the Facility utilizing the Texas Water Development Board (TWDB) searchable website located at the following web address:

http://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer .

The water well search is included as **Attachment IIB**. According to the TWDB well search, there are no water wells within 500 feet of the registration boundary. If additional existing or abandoned water wells are located during the Facility development, they will be addressed as described in **Section 2.7**.

The facility will be adding a future water well approximately 160' off of the 2 acre facility property boundary.

2.2.5.2 Oil & Gas Wells

An oil and gas well search of state records was conducted to identify locations of any existing or abandoned on-site crude oil or natural gas wells, or other wells associated with mineral recovery, that are under the jurisdiction of the Railroad Commission of Texas, that are within 500 feet of the registration boundary.

According to the well search, there is one plugged and abandoned oil well approximately 165 ft Northwest of the Facility boundaries **Figure II-15**. If additional existing or abandoned crude oil or natural gas wells, or other wells associated with mineral recovery, are located during the Facility development, they will be addressed as described in **Section 2.7**.

2.2.6 Any Other Information Requested by Executive Director (ED) 30 TAC §330.61(h)(6)

No additional information has been requested by the ED.

2.3 Transportation Analysis 30 TAC §330.61(i)(1)-(4)

Consistent with 30 TAC §330.61(i)(1)-(4), a transportation analysis was performed for the proposed Processing Facility. The surface types and traffic volumes on the access roads in the vicinity of the site have been analyzed for their availability and adequacy.

2.3.1 Access Road Adequacy

The Facility is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. Access to the facility will be a 0.86-mile private driveway to the facility.

Table II-7. Access Roadway Characteristics

Roadway	Maximum Weight (pounds)	Number of Lanes1	Curb/Shoulders	Surface Type	Entity Responsible for Maintenance

School Road		**1**	**No**	**Pavement**	**Austin County**
Oil Field Road		**1**	**No**	**Pavement**	**Austin County**

1 The number of lanes is total in both direction

According to TxDOT Statewide Planning Map, accessed March 2025 , there are no projects with construction to begin within 4 years or to begin in 5 to 10 years within one mile of the proposed Facility.

2.3.2 Access Road Traffic Volumes

Table II-8 The daily traffic flow on school road within 1 mile west of the project is 335 vehicles. The estimated AADT is around 27% growth by 2042. This growth increase is approximately 1.2% annually. The traffic enters School Road which then turns to Oil Field Road. Oil Field Road has an average daily traffic flow of 509 vehicles. The estimated AADT is around 29% growth by 2042. This growth increase is approximately 1.3% annually. TCDS does not have any data showing for School Road in front of the project entrance, south of the facility. Nonlocal traffic does not turn off Oil Field Road and onto School Road in front of the project entrance. Based on the TXDOT Statewide Planning Map It Shows the AADT based on --2022 Traffic Volumes being 60 vehicles with the 2042 estimated AADT will still be 60 vehicles or 0% annual growth.

Table II-8 also shows the signalized highway generalized service volume for the local roadways.

Table II-8. Traffic Volumes

Roadway	2022 AADT	2042 AADT	Level of Service
Oil Field Road	**509**	**659**	**A: Free Flow**
School Road (West)	**335**	**425**	**A: Free Flow**
School Road (South)	**60**	**60**	**A: Free Flow**

2.3.3 Facility Generated Traffic

The Facility is currently not in operation to receive any waste loads.

TxDOT was contacted to determine if the additional traffic volume generated from the proposed processing facility would impact traffic flow movements in the vicinity of the site. A copy of this correspondence is included in **Attachment IIC-1**. A response from TxDOT was provided from their Yoakum District and they did not find any traffic impacts that would require remediation based on internal analysis.

Based on the findings of the transportation analysis, there are no existing or future restrictions on the main access roadway in the vicinity of the Facility that would prevent safe and efficient operations for both the generated traffic as well as the other vehicles in the area.

2.4 Notice to the Airport and FAA 30 TAC §330.545(b)

There are no Airports located within a six-mile radius of the facility.

2.5 Geology and Soils 30 TAC §330.61(j)

In accordance with 30 TAC §330.61(j)(1), a general discussion of the geology and soils at the process facility is included in the following sections. Regulation citations §330.61(j)(2)-(4), pertaining to fault areas, seismic impact zones, and unstable areas, are applicable for landfills, not process facilities.

2.5.1 Geology

The project area is in the Pleistocene-age Fluviatile Terrace Deposits. This lithological unit consists of gravel, sand, silt, and clay in various proportions with gravel more common in the older, higher terraces. Depth to groundwater is greater than 150 feet.

Information about the units from the Texas Water Development Board (TWDB) are also shown in **Table II-9** below. The sections following the table discussed a generalized stratigraphic column of the area beneath the facility to a depth of approximately 2,000 feet below ground surface (BGS).

Table II-9. Geologic Units

Period	Age	Geologic Formation	Maximum Thickness (Feet)	Lithology	Water-Bearing Properties
Quaternary	Pleistocen	Terrace deposits	70’	Fine to coarse sand, gravel, silt, and clay	Yields small to large quantities of fresh to slightly saline water to wells for rural, domestic, and livestock use and to a few irrigation
	Holocene	Floodplain alluvium	82”	Fine to coarse sand, gravel, silt, and clay	Yield small to large quantities of fresh to slightly saline water, mostly to irrigation wells along the Brazos River
Unconformity					
		Yegua Formation	1,150’	Fine to medium sand, silt, clay, gypsum, fossilized wood, and lignite	Yields small to moderate amounts of fresh to moderately saline water to many wells for public supply, rural-domestic, livestock, and irrigation

Tertiary	Eocene	Cook Mountain Formation	550’	Carbonaceous clay and a small amount of sand, sandstone, limestone, glauconite, and gypsum. The spiller Sand Member is near the middle of this formation.	Yields small quantities of fresh to slightly saline water to wells that tap the Spiller Sand Member.
		Sparta Sand	290’	Fine to medium sand with some clay, and sandy clay	Yields small quantities of fresh to slightly saline water to wells in a downdip from the outcrop.
		Weches Formation	130’	Iron-bearing glauconite clay and sand	Yields small quantities of fresh to slightly saline water to a few wells in or near the outcrop.
Tertiary	Eocene	Queen City Sand	540’	Massive to thin-bedded, fine to medium sand, clay and some lenses of conglomerate containing iron	Yields small to large quantities of fresh to slightly saline water to wells in and several miles downdip from the outcrop.
		Reklaw Formation	430”	Glauconite sand and silt in the lower part of the formation; clay and thin beds of sandstone in the upper part.	Capable of yielding small quantities of fresh to slightly saline water to wells in some places. Not known to yield water to wells in the registration area.
		Carrizo Sand	250’	Fine to coarse crossbedded sand and some thin beds of	Yields small to large quantities of fresh to slightly saline water, mostly to public-supply wells.

				sandstone and clay	
		Wilcox Group	3,900’	Fine to coarse sand and sandstone, sandy clay, clay, and shale, with some lenses of limestone and lignite. Simsboro Sand Member is in the middle part of this group	Yields small to large quantities of fresh to moderately saline water to public-supply, irrigation, rural-domestic, and livestock wells. Most water produced from the Simsboro Sand Member.

2.5.1.1 Fluviatile Terrace Deposits

Quaternary age Fluviatile Terrace Deposits underlie the registration boundary. Deposits include gravel, sand, silt, and clay. An upper silty clay unit is good for crop production and a lower coarse unit yields some water. High gravel content deposits are commonly exposed to the surface.

2.5.1.2 Yegua Formation

Unconformably underlying the Fluviatile Terrace Deposits is the Tertiary age Yegua Formation. The unit is sandstone, clay, and lignite, and the sandstone is mostly quartz. The formation dips into the southeast into the East Texas Basin and has an approximate thickness of 850 feet at the site.

2.5.1.3 Cook Mountain Formation

Underlying the Yegua Formation is the Tertiary age Cook Mountain Formation. The Cook Mountain Formation consists of mostly clay but is sandy is some parts. This formation dips to the southeast and has an approximate thickness of 415 feet at the site.

2.5.1.4 Sparta Sand

Underlying the Cook Mountain Formation is the Tertiary age Sparta Sand. The Sparta Sand Formation contains quartz sand, which is very fine to fine grained, well sorted, and micaceous, with silty clay partings.This formation dips to the southeast and has an approximate thickness of 230 feet at the site.

2.5.1.5 Weches Formation

Underlying the Sparta Sand Formation is the Tertiary age Weches Formation. The Weches Formation contains greensand, sand, and clay. This formation has an approximate thickness of 80 feet at the site.

2.5.1.6 Queen City Sand

Underlying the Weches Formation is the Tertiary age Queen City Sand. The Queen City Sand contains fine-grained quartz, which is locally carbonaceous, with thin interbeds of clay, sands, and silts. This formation dips to the southeast and has an approximate thickness of 430 feet at the site.

2.5.1.7 Reklaw Formation

Underlying the Queen City Sand is the Tertiary age Reklaw Formation. The Reklaw Formation contains two parts. The upper part of the Reklaw Formation contains clay which is silty and carbonaceous. The lower part of the Reklaw Formation contains glauconitic, fine to medium grained quartz sand and clay. This formation dips to the southeast and has an approximate thickness of 330 feet at the site.

2.5.1.8 Carrizo Sand

Underlying the Reklaw Formation is the Tertiary age Carrizo Sand. The Carrizo Sand contains fine to coarse grained, poorly sorted, friable, non-calcareous, thickly bedded sandstone. This formation dips to the southeast and has an approximate thickness of 90 feet at the site.

2.5.1.9 Wilcox Group

Underlying the Carrizo Sand is the Tertiary age Wilcox Group. It has an approximate thickness of 1450 feet at the site.

2.5.2 Soils

The site is located in Austin County, Texas. The topography of Austin County is defined by rolling hills in the northern, western and central sections to a nearly level coastal prairie in the south. Elevations range from 460 to 120 feet above sea level. The site is located on the northeast edge of the Gulf Coast Prairies and Marshes ecoregion just outside of the East Central Texas Plains ecoregion. The project being located on the inland portion of the ecoregion has older, more irregular plains and has mostly forest or savanna type vegetation potentials. Soils in this region are generally more acidic sands and sandy loams, however it is common to have clay in the river bottom areas. **Figure II-2** shows the general site topography based on United States Geological Survey (USGS) quadrangle sheets for Hempstead, TX.

The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) operates an online Web Soil Survey (WSS) which provides soil data and information

produced by the National Cooperative Soil Survey. The soil information and mapping from the WSS shows that the registration boundary encompasses one (1) soil type as shown in **Table II-10**.

Table II-10. Site Soils

Soil Symbol	Soil Name	Percentage of Site
KeD	**Kenney loamy fine sand**	**100%**

2.6 Groundwater and Surface Water 30 TAC §330.61(k)

2.6.1 Groundwater Conditions 30 TAC §330.61(k)(1)

The Gulf Coast Aquifer is the major hydrologic unit utilized for groundwater supplies in Austin County. The Gulf Coast Aquifer consists of complex interbedded clays, silts, sands and gravels of Cenozoic age. These are hydrologically connected to form a large, leaky artesian aquifer system.The system comprises four major components consisting of the following water-producing formations - Catahoula, Jasper, Chicot, and Evangeline aquifers

The Brazos River Alluvium Aquifer is a minor aquifer found along the Brazos River. The Alluvium Aquifer consists of clay, silt, sand and gravel.

No data is available on site-specific groundwater conditions. The only data available concerning near Facility groundwater conditions are through the driller reports available through the Texas Water Development Board for water production well installations. These reports state static water levels were found to be at a depth range between 35-70 feet below the ground surface (see **Appendix IIB-2**).

2.6.2 Surface Water Conditions 30 TAC §330.61(k)(2)

According to the Texas Water Development Board published maps entitled “Major River Basins of Texas over DEM” and “Texas Major River Basins and Sub-Basins over DEM”, the site is located in the Middle and Lower Brazos-Little Brazos sub-basin of the Brazos River basin. According to maps provided on the Brazos River Authority website, the site is located in the Central watershed.

Surface water features are displayed on **Figure II-2** which displays the Facility location plotted on the U.S.G.S. Burleigh Quadrangle. The closest surface water features to the Facility is a natural pond, which is located approximately 1,295 feet north of the Facility boundary.

2.6.3 Texas Pollutant Discharge Elimination System Compliance 30 TAC §330.61(k)(3)

The facility has applied for a no exposure (TPDES) Stormwater General Permit no. TXRNECL44. Since the proposed process facility will not perform vehicle or equipment maintenance activities, vehicle or equipment rehabilitation, mechanical repairs, painting, fueling, lubrication, or cleaning within the registration boundary of the Facility, the site is not subject to the requirements of the

Texas Pollutant Discharge Elimination System (TPDES) Multi-Sector General Permit, as required by §402 of the federal Clean Water Act. TXRNECL44 is included in **Attachment IIG**.

2.6.4 Information on How Facility Will Comply With Texas Pollution Discharge Elimination System 30 TAC §330.61(k)(3)(A)

The Facility has obtained the TPDES Stormwater General Permit no. TXRNECL44 on February 15, 2025, for a no exposure certification. Wastewater discharged from the site to a treatment Facility permitted under the Texas Water Code, Chapter 26 must comply with the requirements of 330.207(f). A copy of the TPDES Stormwater General Permit No. TXRNECL44 is included in **Part III, Attachment IIIC.**

2.6.5 Copy of Permit No. Under Individual Wastewater Permit 30 TAC §330.61(k)(3)(B)

No individual TPDES wastewater permit will be sought by the Facility. All materials processing will occur in the process area, which will not accumulate stormwater. No waste will be stored outside of the covered structure.

2.7 Abandoned Oil and Water Wells 30 TAC §330.61(l)

Consistent with 30 TAC §330.61(l), a summary of abandoned oil and water wells within the facility has been developed. As described in **Section 2.2.5** of this report, and as shown on **Figure ll-15**, no water or oil & gas wells were identified within the site boundary, and one (1) plugged oil well was identified within 160 ft northwest of the registration boundary. No water wells were identified within 500 feet of the registration boundary.

Should any additional existing or abandoned on-site water wells or oil & gas wells be discovered during Facility development, the facility will provide written notification to TCEQ of their location.

Any wells discovered during Facility development will be capped, plugged, and closed in accordance with the applicable rules and regulations of TCEQ or other state agency, and a copy of the well plugging report for any found well will be submitted to TCEQ and the appropriate state agency within 30 days prior to construction.

2.8 Floodplains and Wetlands 30 TAC §330.61(m)

Consistent with 30 TAC §330.61(m), data has been provided on floodplains and wetlands.

Provide Statement to Whether Facility Is Within 100 Year Floodplain 30 TAC §330.61(m)(1)

The Facility is not located within the Federal Emergency Management Agency (FEMA) 100-year floodplain. **Figures II-8** displays the FEMA Flood Insurance Rate Map.

2.8.1 Facility Shall Not Restrict the Flow, Reduce Storage Capacity, or Result in Washout 30 TAC §330.547(b)

The disposal of solid wastes will not occur at the Facility. The processing of solid waste or storage will not occur in the 100-year floodplain. All process facility waste is confined to the covered process area.

The process facility is not located in the flow pattern of the 100-year floodplain as such the construction of the Facility will not restrict the flow of floodwaters.

2.8.2 Storage and Processing Facilities are Located Outside of 100 Year Floodplain

30 TAC §330.547(c)

The Facility is not located within the Special Flood Hazard Boundary according to FEMA (Federal Emergency Management Agency) flood map for Austin County, Texas. The 100-year floodplain (special flood hazard) boundary is shown on **Figure II-13** FEMA Flood Insurance Rate Map.

2.8.3 Wetlands 30 TAC §330.61(m)(2)

Per §330.553, municipal solid waste storage or processing facilities shall not be located in wetlands unless a demonstration can be made providing evidence that the facility has a Corps of Engineers (USACE) permit for use of any wetlands area. Wildlife Biologist Faith Chase created a Wetland and Waterbody Delineation report, dated March 2025. The conclusion of the environmental resource analysis determined no wetlands or waterbodies within the Facility area. A copy of the report is provided in **Attachment IID-1**.

2.9 Endangered or Threatened Species 30 TAC §330.61(n)

Construction and operation of the Facility shall not result in the destruction or adverse modification of the critical habitat or cause or contribute to the taking of endangered or threatened species.

2.9.1 Endangered or Threatened Species Assessment

Threatened and endangered species assessments were conducted by Wildlife Biologist Faith Chase at the facility. The objective of the assessment was to evaluate the potential for the existence of species and/or their habitat that are considered protected under the Endangered Species Act of 1973. Based on a field survey and available records, it was concluded that the Facility and the operation of the facility is not expected to result in the destruction or adverse modification of the critical habitat of endangered or threatened species, or cause or contribute to the taking of any endangered or threatened species. Copies of the assessment are included in **Attachments IIE-1 and IIE-2**.

Attachment IIE-3 includes coordination with the Texas Department of Parks and Wildlife (TDPW) concerning endangered or threatened species or their habitats.

2.10 Texas Historical Commission 30 TAC §330.61(o)

In accordance with 30 TAC §330.61(o), a review for request letter was sent to the Texas Historical Commission (THC) for concurrence that there are no historical, archeological, or sites with exceptional aesthetic quality on the Facility property or in the surrounding area that would be affected by the proposed process facility.

The submission was through the electronic THC review and compliance system, or eTrac system. The related correspondence and proof of submittal is included in **Attachment IIA-1**. The THC responded via email. The Archeology comments are below:

Archeology Comments

- This agency reviews projects that fall under the purview of Section 106 of the National Historic Preservation Act or the Antiquities Code of Texas. As submitted, it appears there is no federal nexus for this project and it will be limited to private property, so the state and federal statutes mentioned above do not apply. We require notification of potential impacts to cemeteries, including individual burials, under the Texas Health & Safety Code, Chapter 711. If at any point this project should become subject to federal involvement (including federal funding or permitting); ownership or control by a political subdivision of the State of Texas (such as a public utility or local government); or if state agencies such as the Public Utilities Commission or Texas Commission on Environmental Quality direct you to consult with this agency, additional consultation with the State Historic Preservation Office will be required. This project will need to be resubmitted for review with additional information on the regulatory framework and proposed impacts. Further, if the project ultimately includes federal involvement, potential direct and indirect effects to aboveground historic resources must also be considered, which may additionally require a historic resources survey for the project's Area of Potential Effect.

2.11 Council of Governments 30 TAC §330.61(p)

A request for review letter and Parts I and II of this Registration Application has been submitted to the Houston-Galveston Area Council (HGAC) to operate a Type V Process Facility in accordance with §330.61(p).

Documentation of correspondence with HGAC is included in Attachment IIF.

2.12 Easement and Buffer Zones 30 TAC §330.543(a)

No solid waste unloading, storage or processing operations will occur within any easement, buffer zone, or right of way that crosses the Facility within 25 feet of the centerline of any utility line, or

pipeline easements. There are no pipelines for utility easements that cross the 2-acre registration boundary. If there were, all utility and pipeline easements would be marked with posts that extend at least six feet above the ground level, spaced at a distance of no greater than 300 feet.

No solid waste storage or processing will occur within the 50 foot buffer zone that has been established for the Facility as per 330.543(b).

SUPPLEMENTARY TECHNICAL REPORT

General Description: The facility will be on 2 acres. All capacity calculations are based on a 8 am to 5 pm Monday through Friday standard schedule without emergency calls. To ensure no overload and overflow, an employee will be onsite at the processing facility during operating hours to visually monitor levels in receiving tanks and process tanks. We will be alternating between two frac tanks (process tanks; 21,000 gallons each) 42,000 Gallons total staging capacity. Thus, duel staging system is to ensure that we can stage for under 7 days per 30 TAC 312.50(c). The startup anticipated average treatment rate is 21,000 gallons per week. This will be split into two batches to eliminate vector and pathogen build up. The disposal fields (78 Acres) will be divided into 3 fields. Treated septage will be rotated between fields per judgment of weather, ponding, and predictive hay production. There are 3 fields to ensure one active, one standby, and one resting 30 days (per 30 TAC 312.82 (3)(E) although no livestock will be onsite, we are going to wait 30 days after the last application to harvest.) As we grow with business, we anticipate an average treatment rate of approximately 63,000 gallons per week. The facility's max processing capacity is 210,000 gallons per week. This is an annual total of 10.9 million gallons per year. We got a ballpark number from the Biosolids team of 11.7 million gallons per year max field capacity (150,000 gallons per acre per year on a 78 acres land application). Our growth indicator for a major amendment and facility upgrade is after 5 years or when we operate at a 35-40% capacity to consider for construction/permit processing time and environmental concerns. Even factoring in a 10% variance (100,000 gallons) variance, we will be operating at a 93% capacity.

We will be utilizing bar screens for trash collection. The trash will be put into a dumpster to go to a TCEQ authorized landfill. We will have a Lime tank to hold "slurry" hydrated lime. We will have a pump to transfer the lime to the frac tank to raise the pH to 12 or more for 30 minutes to treat domestic septage. The process can hold up to 21,000 gallons per batch, however in consideration of pathogen and vector compliance we will be treating smaller batches on a scheduled basis as needed. To treat 21,000 gallons of domestic septage we will use approximately 360-440 gallons of lime (A Guide to the Federal EPA Rule for Land Application of Domestic Septage to Non-Public Contact Sites EPA/832-B-92-005). After pH meets 30 TAC 312.82 (C) and checked again the sludge will be pumped out through an irrigation traveler (rain gun) for beneficial land application (separate TCEQ BFU site registration). There will be a berm around the frac tanks to contain any spills. Septic trucks will back up to one of our 4 hoses to offload.

II) The physical characteristics of sewage are:

(i) Specific Gravity:

Specific gravity of sewage is very nearly equal to that of water and, therefore, no modification of hydraulic formula is necessary.

(ii) Color:
Fresh domestic sewage has an earthy or light brown color. However, with the passage of time sewage undergoes decomposition due to which its color changes. In about 6 hours, with all the dissolved for free oxygen present in the sewage being practically exhausted due to aerobic decomposition, the sewage becomes stale, and its color becomes light-to-medium grey. As more time passes the sewage undergoes anaerobic decomposition due to which it becomes septic, and its color becomes dark grey or black. The blackening of sewage is often due to the formation of various sulfides, particularly ferrous sulfide. Th results when hydrogen sulfide (H_2S) produced during anaerobic decomposition combines with a divalent metal, such as iron, which may be present. Thus, the color or appearance of domestic sewage may be used to assess its general condition or age.

(iii) Odor:
Fresh domestic sewage is either odorless or it has a musty odor which is usually not offensive, but when organic matter present in sewage undergoes anaerobic decomposition a variety of compounds are formed which emit offensive odor. The main compound formed under anaerobic conditions is hydrogen sulfide (H_2S) which has a smell of rotten eggs that is highly offensive.
The other compounds, such as indol, skatol, cadaverin and mercaptan, formed under anaerobic conditions may cause odors that are more offensive than that of hydrogen sulfide. This will be mediated by frequent and scheduled smaller batches as needed.

(iv) Temperature:
The temperature affects sewage in the following ways:
(a) Temperature affects the biological activity of bacteria present in sewage, which increases with increase in temperature up to about 60°C and then it decreases.
(b) It affects the solubility of oxygen and other gases in sewage. When the temperature of sewage is more the content of dissolved oxygen and other gases becomes less.
(c) Temperature affects viscosity of sewage which decreases with increase in temperature.
(d) Extremely low temperature affects adversely the efficiency of sedimentation.

The average temperature of sewage in our country is 20°C which is quite close to the ideal temperature for the biological activities.

(v) Total Solids Content-Turbidity:
Total solids present in sewage may be in three different forms:
(A) Suspended solids, (B) Colloidal solids and (C) Dissolved solids.

Suspended solids are those which are held in suspension in liquid, and these may be further subdivided as:
(a) Settleable solids and

(b) Non-settleable solids.

Settleable solids are those which settle out if sewage is allowed to remain undisturbed for a period of about 2 hours. Non-settleable solids are those which do not settle down by mere detention but may be arrested by special laboratory filters.

Colloidal solids are finely divided solids held in suspension, which cannot be removed by settling or filtering, but they are generally removed by biological oxidation or coagulation, followed by sedimentation. Dissolved solids are those which remain dissolved in sewage just as salt in water.

When sewage is passed through laboratory filter the suspended solids will be filtered out i.e., they will be retained on the filter, while colloidal and dissolved solids will pass through the filter in the filtrate. Thus, suspended solids are non-filtrable-solids while colloidal and dissolved solids are the filtrable-solids. The colloidal solids consist of particles with an approximate diameter range of from 1 millimicron (mμ) to 1 micron (μ).

Each of the categories of solids present in sewage may be further classified as-
(a) Organic or volatile solids, and (b) Inorganic or non-volatile or fixed solids.

The organic solids account for about 45% of the total solids and these can be grouped in the following three categories:
1. Carbohydrates such as cellulose, cotton and wool fiber, starch, sugar, etc.

2. Fats, oils and grease received from kitchens, laundries, garages, shops, filling stations, etc.

3. Nitrogenous compounds proteins and their decomposed products, animal and vegetable wastes, urea, amines, amino acids, fatty acids, hydrocarbons, alcohol, etc.

The inorganic solids account for the other 55% of the total solids and these consist of minerals and salts such as sand, gravel, grit, clay and other debris, dissolved salts, chlorides, sulphates, etc.

The presence of suspended matter in sewage makes it turbid. Turbidity, a measure of the light- transmitting properties of water, is used to indicate the quality of sewage with respect to colloidal matter. Colloidal matter will scatter or absorb light and thus

prevent its transmission. The turbidity depends on the strength of sewage, and it increases as sewage becomes stronger.

2. Chemical Characteristics of Sewage:
The chemical characteristics indicate the state of sewage decomposition, its strength and type of treatment required. The chemical characteristics are dependent on the substances contained in sewage.

The significant chemical characteristics of sewage are:
(i) pH value (or Hydrogen ion concentration), (ii) Chloride content, (iii) Nitrogen content, (iv) Phosphorus content, (v) Fats, oils and grease content, (vi) Sulphates, sulfides and H_2S gas, (vii) Surfactants, (viii) Phenols, (ix) Pesticides and agricultural chemicals, (x) Toxic compounds, (xi) Gases—Dissolved oxygen, Hydrogen sulfide, and Methane.

(i) pH Values:
The pH value of sewage indicates whether it is acidic or alkaline in nature. The pH value of fresh domestic sewage is slightly more than that of the water supply to the community. Thus, fresh domestic sewage is alkaline in nature having pH value between 7.3 and 7.5, which is good for bacterial action.

However, as time passes the pH value of sewage tends to fall due to production of acids by bacterial action and the sewage tends to become acidic. Thus, septic sewage is acidic in nature which is difficult to be treated efficiently. A high concentration of either an acid (pH<<7) or an alkali (pH >>7) in sewage is indicative of industrial sewage being mixed with domestic sewage. The determination of pH value of sewage is necessary because certain methods of sewage treatment for their efficient working require sewage of pH value in a particular range. Sometimes lime is added for creating alkaline condition.

(ii) Chloride Content:
Chlorides found in domestic sewage are derived from kitchen wastes, human feces, urinary discharges, etc. For example, human excreta contributes about 6 to 8 gm of chlorides per person per day. Thus, based on an average sewage flow of 150 Ipcd this would result in the chloride content of 40 to 50 mg/1 being added to sewage by human excreta.

Water softeners also add large quantities of chlorides to sewage. Large amounts of chlorides may also be contributed from industrial sewage. Infiltration of saline

groundwater is also a potential source of chlorides in sewage. Chlorides are mineral salts and, therefore, these are not affected by the biological action of sewage.

(iii) Nitrogen Contents:
The nitrogen content of sewage is in the form of nitrogenous compounds present in it. The principal nitrogenous compounds present in domestic sewage are proteins, amines, amino-acids and urea which are organic compounds, and ammonium salts which are inorganic compounds. The nitrogenous organic compounds (or nitrogenous organic matter) present in sewage undergo decomposition or oxidation.

Depending on the state of decomposition or oxidation of nitrogenous organic matter nitrogen appears in sewage in the following forms:
(a) Albuminoid nitrogen or albuminoid ammonia;

(b) Ammonia nitrogen or free nitrogen;

(c) Nitrites or Nitrite nitrogen; and

(d) Nitrates or Nitrate nitrogen.

(a) Albuminoid Nitrogen or Albuminoid Ammonia:
Albuminoid nitrogen or albuminoid ammonia indicates the quantity of nitrogen present in sewage before the decomposition of nitrogenous organic matter is started. In other words albuminoid nitrogen or albuminoid ammonia indicates the amount of undecomposed nitrogenous organic matter present in sewage.

(b) Ammonia Nitrogen or Free Ammonia:
In sewage ammonia nitrogen or free ammonia results from the bacterial decomposition of the nitrogenous organic matter.

It exists in sewage as either ammonium ion (NH_4^+) or ammonia (NH_3) depending on the pH value of the sewage, in accordance with the following equilibrium reaction:

When pH > 7, the equilibrium is displaced to the left, thus it exists as ammonia, while for pH < 7, it exists as ammonium ion. The age of sewage is indicated by the relative amount of ammonia that is present. The presence of considerable amount of ammonia nitrogen or free ammonia indicates stale or old sewage. In an aerobic environment bacteria can oxidize the ammonia nitrogen to nitrites and nitrates.

(c) Nitrites:
Nitrites indicate the presence of partly decomposed (or partly oxidized) nitrogenous organic matter in sewage. The presence of nitrites in sewage indicates that decomposition or oxidation of nitrogenous organic matter is in progress. Hence

nitrites indicate the intermediate stage of conversion of nitrogenous organic matter of sewage into stable form.

When sewage is undergoing treatment the presence of nitrites shows that the treatment is still incomplete, and the sewage is still stale. In other words, nitrites will predominate in stale sewage. Thus, the presence of nitrites is an indicator of past pollution in the process of stabilization. In sewage the amount of nitrites seldom exceeds 1 mg/1. Nitrites are, however, unstable and are easily oxidized to nitrate form, and hence they are relatively unimportant in sewage or water-pollution studies.

(d) Nitrates:
Nitrates are the final products of decomposition (or oxidation) or nitrogenous organic matter present in sewage. As such the presence of nitrates indicates fully oxidized and the most stable form of nitrogenous organic matter contained in sewage thereby indicating the well oxidized and treated sewage.

Increase in proportion of nitrates during the process of sewage treatment serves as a guide for measuring the progress achieved in the sewage treatment. Nitrates may vary in concentration from 0 to 20 mg/1 as nitrogen in sewage.

In fresh sewage nitrites and nitrates are usually not present or they may be present in very small amount.

Nitrogen being an essential component of biological protoplasm, its determination in sewage is necessary for proper biological treatment or its use for land irrigation. Where nitrogen content in sewage is inadequate, it becomes necessary to supplement with addition of salts containing nitrogen. Generally domestic sewage contains sufficient nitrogen to take care of the needs of the biological treatment.

(iv) Phosphorus Content:
Phosphorus is contributed to domestic sewage from food residues containing phosphorus and their breakdown products. The use of increased quantities of synthetic detergents add substantially to the phosphorus content of sewage. Phosphorus just as nitrogen, is an essential nutrient for biological processes. Generally domestic sewage contains adequate quantities of phosphorus.

(v) Fats, Oils and Grease Content:
Fats and oils are the major components of food stuffs such as butter, lard, margarine and vegetable fats and oils. Fats are also commonly found in meats, seeds, nuts and some fruits. Thus fats and oils are contributed to domestic sewage from kitchen wastes which contain these food stuffs. Fats and oils are compounds (esters) of alcohol or glycerol (glycerine) with fatty acids. Fats are among the more stable of organic compounds and are not easily decomposed by bacteria. The term ‘grease’ as

commonly used, includes the fats, oils, waxes and other related constituents found in sewage.

(vi) Sulfates, Sulfides and H_2S Gas:
Sulfates and sulfides are formed due to decomposition of various Sulfur containing substances present in sewage. Further sulfate ions (SO_4) occurs naturally in most water supplies and hence these are also present in sewage. Sulfur is required in the synthesis of proteins and is released in their degradation.
Anaerobic bacteria chemically reduce sulfates to sulfides and to hydrogen sulfide (H_2S) as indicated by the following equations:

The hydrogen sulfide gas so produced cause bad smells or odors. Besides this, H_2S gas gets oxidized biologically to sulfuric acid (H_2SO_4) which is corrosive to sewer pipes. Sulphates are reduced to sulfides in sludge digesters and may upset the biological process if the sulfide concentration exceeds 200 mg/l. However, such concentrations of sulfides are rare. Further H_2S gas which is evolved and mixed with the sewage or wastewater gas (CH_4 + CO_2) is corrosive to the gas piping.
(vii) Surfactants:
Surfactants (or surface active agents) come primarily from synthetic detergents. Thus, surfactants are contributed to domestic sewage from bathroom wastes, kitchen wastes, wastes from washing machines, etc. Surfactants are large organic molecules that are slightly soluble in water and cause foaming in sewage treatment plants and in water bodies into which the sewage is discharged. Surfactants tend to collect at the air-water interface.

During aeration of sewage, these compounds collect on the surface of the air bubbles and thus create a very stable foam due to which aeration of sewage is hindered. Alkyl-benzene- sulfonate (ABS) is a type of surfactant commonly used in synthetic detergents, but it is more troublesome because it is not biodegradable (i.e., it resists break down by biological means). As such some countries have banned the use of ABS in detergents, and ABS has been replaced in detergents by linear-alkyl- sulfonate (LAS) which is biodegradable.

(viii) Phenols:
Phenols are mostly found in industrial sewage. If such a sewage is directly discharged into a surface source of water supply then drinking water may also contain phenols. However, the presence of phenols in drinking water is not desirable because phenols cause taste problems in drinking water, particularly when the water is chlorinated. Phenols present in sewage can be biologically oxidized if their concentrations are up to 500 mg/l.

(ix) Pesticides and Agricultural Chemicals:
Sewage may contain pesticides, herbicides and other agricultural chemicals which result primarily from surface runoff from agricultural, vacant and park lands. If sewage containing these chemicals is discharged in a water body it can result in fish kills, in contamination of the flesh of fish that decreases their value as a source of food, and in impairment of water supplies.

(x) Toxic Compounds:
Sewage may contain certain compounds which are toxic to micro-organisms. Such compounds may be contributed by industrial sewage. The industrial sewage may contain certain cations and anions which are toxic to micro-organisms. Copper, lead, silver, chromium, arsenic and boron are some of the cations which are toxic in varying degrees to micro-organisms.

For instance, in sludge digesters, copper is toxic at a concentration of 100 mg/L, chromium and nickel are toxic at concentrations of 500 mg/l, and sodium is also toxic at high concentrations. Other toxic cations include potassium and ammonium at concentrations of 4000 mg/l.

The toxic anions include cyanides and chromates which are found particularly in metal-plating wastes. It has been found that due to the presence of toxic ions the micro-organisms are killed and the treatment ceases. As such the presence of toxic ions should be taken into consideration in the design of biological treatment plants.

(xi) Gases:
Besides solids, sewage also contains gases.

The gases that are commonly found in untreated sewage include:
(i) Nitrogen (N_2),
(ii) Oxygen (O_2),
(iii) Carbon dioxide (CO_2),
(iv) Hydrogen sulfide (H_2S),
(v) Ammonia (NH3), and

(vi) methane (CH_4).
The first three are common gases of the atmosphere and are found in all waters (including sewage) exposed to air. The later three are derived from the decomposition of the organic matter present in sewage. The presence of nitrogen and ammonia in untreated sewage is discussed earlier.

The other gases of interest in untreated sewage are oxygen, hydrogen sulfide and methane and the same are discussed below:
i. Dissolved Oxygen:

Dissolved oxygen (DO) is the amount of oxygen present in sewage in dissolved state. The presence of dissolved oxygen in untreated sewage indicates that the sewage is fresh. However, oxygen is only slightly soluble in water.

The actual quantity of dissolved oxygen that can be present in water is governed by:
(i) Solubility of oxygen,

(ii) Partial pressure of oxygen in atmosphere,

(iii) Temperature, and

(iv) Purity (salinity, suspended solids, etc.) of water.

The solubility of oxygen in sewage is only about 95% of that in distilled water. Further as indicated earlier the quantity of dissolved oxygen in sewage decreases as the temperature increases.

Dissolved oxygen is required for the respiration of aerobic micro-organisms as well as all other aerobic life forms present in sewage. Thus, the presence of dissolved oxygen in sewage is desirable. The dissolved oxygen content of fresh sewage is soon depleted due to aerobic decomposition.

When the entire quantity of dissolved oxygen is exhausted, the aerobic decomposition ceases and anaerobic decomposition commences which results in the development of noxious odors. As such the presence of dissolved oxygen in sewage is also desirable because it prevents the development of noxious odors.

It is necessary to determine the dissolved oxygen content of sewage before it is subjected to treatment, so as to select the proper method of treatment.

ii. Hydrogen Sulfide:
As indicated earlier hydrogen sulfide is formed from the decomposition of organic matter containing sulfur or from the reduction of mineral sulfites and sulphates. It is not formed in the presence of an abundant supply of oxygen. Hydrogen sulfide gas is a colorless, inflammable compound having the characteristic odor of rotten eggs.

The blackening of sewage and sludge usually results from the formation of hydrogen sulfide that has combined with the iron present to form ferrous sulfide (FeS). Although hydrogen sulfide is the most important gas formed from the standpoint of odors, other volatile compounds such as indol, skatol and mercaptans, which may

also be formed during anaerobic decomposition, may cause odors far more offensive than that of hydrogen sulfide.

iii. Methane:
Methane gas is the principal by-product of the anaerobic decomposition of the organic matter in sewage. Methane gas is a colorless, odorless, combustible hydrocarbon of high fuel value. Normally large quantities of methane are not encountered in sewage because even small amounts of oxygen tend to be toxic to the organisms responsible for the production of methane.

Since methane is highly combustible and the explosion hazard is high, manholes and sewer junctions or junction chambers where there is an opportunity for the gas to collect should be ventilated with a portable blower during and before the time required for men to work in them for inspection, repairs or renewals.

In treatment plants, notices should be posted about the plant warning of explosion hazards, and plant employees should be instructed in safety measures to be maintained while working in and about the structures where the gas may be present.

3. Biological Characteristics:
The biological characteristics depend on the groups of organisms found in sewage. The principal groups of organisms found in sewage are classified as protista, viruses, plants and animals.

i. Protista:
Protista includes bacteria, fungi, protozoa and algae. These are the most important group of organisms with which the sanitary engineer must be familiar, especially the bacteria, algae and protozoa.

ii. Bacteria:
These are single cell micro-organisms which play an extensive and fundamental role of decomposition and stabilization of organic matter present in sewage, both in nature and in treatment plants.

Bacteria may be classified according to type as:
(i) Saprophytic bacteria,

(ii) Parasitic bacteria,

(iii) Pathogenic bacteria, and

(iv) Non-pathogenic bacteria.

Saprophytic bacteria are those which live on dead or decaying organic matter, thus obtain organic matter in solution from dead and decaying tissue in plants and animals, and hence these are beneficial to mankind. Parasitic bacteria live and multiply on or within the body of a living organism of a higher type.

Pathogenic bacteria are those which may cause diseases within the living organisms on which they subsist. Non-pathogenic bacteria are harmless bacteria and under certain conditions are beneficial to human beings, animals and crops.

According to oxygen requirements bacteria are classified as:
(i) Aerobic bacteria,

(ii) Anaerobic bacteria, and

(iii) Facultative bacteria.

Aerobic Bacteria:
These are those which require free oxygen for their survival, thus if present in sewage they consume dissolved oxygen from the sewage. Anaerobic bacteria are those which survive and flourish in the absence of free oxygen, and the oxygen needed by them is extracted from the oxygen radical of organic compounds and mineral substances such as nitrites (NO_2), nitrates (NO_3), sulphates (SO_4). Facultative bacteria are those which can survive and flourish with or without free oxygen.
According to temperature at which they survive and flourish, bacteria can be classified as:
(i) Psychrophilic bacteria which can survive and flourish between 10° to 20°C,

(ii) Mesophilic bacteria which can survive and flourish between 20° to 40°C, and

(iii) Thermophilic bacteria which can survive and flourish between 40° to 65°C.

Pathogenic bacteria (or pathogens) found in sewage are discharged by human beings who are infected with disease or who are carriers of a particular disease. The usual pathogenic bacteria that may be excreted by man cause diseases of the gastrointestinal tract, such as typhoid and paratyphoid fever, dysentery, diarrhea, and cholera.

Since the identification of pathogenic bacteria in water as well as in sewage is extremely difficult, the presence of coliform bacteria is used as an indicator of the presence of pathogenic bacteria. In other words it is presumed that if coliform bacteria are present in sewage then it may also have pathogenic bacteria.

iii. Coliform Bacteria or Coliforms or B-Coli (Bacterium Coli):

These are rod-shaped, non-pathogenic, aerobic bacteria. The intestinal tract of man contains countless coliform bacteria. Each person discharges from 100 to 400 billion coliform bacteria per day, in addition to other kinds of bacteria.

Coliforms are harmless to man and are, in fact, useful in destroying organic matter in biological sewage treatment processes. Escherichia coli (or E-coli) are a type of coliform bacteria which inhabit the intestines of human beings and animals, and are thus excreted in large amount with their feces. The usual procedure for determining the presence of coliform bacteria consists of the presumptive and the confirmed tests which can be seen in Author's book entitled 'Water Supply Engineering'.

iv. Fungi:
Fungi are unicellular (single celled), non-photosynthetic plants capable of growing in low temperature and low pH environments. They flourish over a wide range of pH (4 to 10) and themselves modify the pH by producing organic acids and ammonia. The reproductive stage of fungi is a spore. Spores are transmitted long distances in the air by wind currents. Absence of suitable environment prevents most fungi spores from germinating.

v. Algae:
Algae are considered as simple photosynthetic plants with unicellular (single celled) organs of reproduction. These are the organisms that are self-nourishing by deriving energy from simple inorganic substances with the aid of sunlight. One of the most important problems facing the sanitary engineers is how to treat wastes of various origins so that the effluents do not encourage the growth of algae and other aquatic plants. The solution may be in the removal of carbon, the removal of various forms of nitrogen and phosphorus, and possibly the removal of some of the trace elements, such as iron and cobalt.

vi. Protozoa:
Protozoa of importance to sanitary engineers include amoebas, flagellates, and free swimming and stalked ciliates. Protozoa are essentially unicellular (single celled) animals that reproduce by binary fission. They are the lowest and the simplest forms of animal life. One form of protozoa—Endameba histolytica causes amoebic dysentery.

It forms cysts which are carried in the bowel discharges of infected persons and which will live for long periods in water. The protozoa are bacteria eaters and survive on dilute organic wastes by eating bacteria and thus destroy the pathogens.

When the concentration of organic waste is sufficiently high, the protozoa can utilize the soluble organic compounds for their food. They are essential in the operation of

biological treatment processes and in the purification of streams because they maintain a natural balance among the different groups of micro-organisms.

vii. Viruses:
Viruses are infectious agents of both plant and animal cells. They are ultramicroscopic, obligate, intracellular parasites that manifest their presence by destruction or impairment of host cells. They can pass through an ultra-microscopic filter and they fall in the size range of 10 to 500 milli-microns.

Because of their small size, viruses lack the biochemical systems needed for normal metabolic cell functions and are essentially units organized solely for self-replications. A typical virus particle consists of an outer protein coat enclosing a core of nuclei acid. One group of viruses, the bacteriophages, are infectious agents of bacteria and are parasitic to bacteria.

It initiates infection by attaching itself by its tail to the wall of a bacterial cell. Out of the various forms of viruses, adenoviruses are associated with upper respiratory infections in children. Entero-viruses are found in gastro-intestinal tract and feces of man and many lower animal. Enteric viruses include coxsackie viruses, infectious hepatitis viruses, polioviruses, reoviruses, etc.

Viruses that are excreted by human beings may become a major hazard to public health. For example – from experimental studies, it has been found that from 10000 to 100000 infectious doses of hepatitis virus are emitted from each gram of feces of a patient ill with this disease. It is known that some viruses will live as long as 41 days in water or sewage at 20°C and for 6 days in a normal river.

viii. Plants and Animals:
Plants and animals, which are of importance to sanitary engineers, range in size from microscopic rotifers and worms to macroscopic crustaceans. A knowledge of these organisms is helpful in evaluating the condition of streams and lakes, in determining the toxicity of sewage discharged to the environment, and in observing the effectiveness of biological life in the secondary treatment processes used to destroy organic wastes.

Src: Characteristics of Sewage: 3 Characteristics | Waste Management (environmentalpollution.in)

PART II NOT APPLICABLE SECTIONS

330.553(b)(1)

330.553(b)(2)(A)-(D)

330.553(b)(3)(A)

330.553(b)(3)(B)

330.553(b)(3)(C)

330.553(b)(3)(D)

330.553(b)(3)(E)

330.553(b)(3)(F)

330.553(b)(4)

330.551(a)

330.559(2)

330.559(3)

330.61(d)

PART II - ATTACHMENTS

Attachment	IIA	Historical and Cultural Resources
	IIA-1	Texas Historical Commission (THC) Correspondence
	IIA-2	Houston Galveston Area Council of Governments (HGACG)
	IIB	Water Well Database
Attachment	IIC	Transportation
	IIC-1	Texas Department of Transportation (TxDOT) Correspondence
Attachment	IID	Wetlands
	IID-1	Wetland and Waterbody Delineation Report
	IID-2	US Army Corps of Engineers Correspondence
Attachment	IIE	Endangered or Threatened Species
	IIE-1	Federally Protected Species Habitat Assessment
	IIE-2	State Listed Species Habitat Assessment
	IIE-3	Texas Department of Parks and Wildlife Correspondence
Attachment	IIF	Houston-Galveston Council of Government Correspondence
Attachment	IIG	TPDES Stormwater General Permit

ATTACHMENT IIA

Cultural Resources Background Study

We have conducted a Cultural Resources background study for the 2 acre privately owned property associated with the Austin County Waste Solutions project located in northeastern Austin County, Texas. The project is located approximately 1500' from the intersection of Oil Field Rd and School RD on the left at the entrance of 3655 Woodley Ln. It is approximately 0.86 miles northeast of the entrance to 3655 Woodley Ln. It is bounded by a 2,200 acre privately owned family ranch. The surrounding ranch is used for beef cattle production as well as hay production (FIGURE II-2).

The 2-acre project will be privately owned and developed; the project will not require U.S. Army Corps of Engineers (USACE) oversight per section 404 of the Clean Water Act, which in turn would not trigger compliance with Section 106 of the National Historic Preservation Act. The project may require compliance with the Antiquities Code of Texas (9 TNRC 191) due to a historical marker within one mile of the project (FIGURE II-2).

The project is located at elevations between 154-160 feet above mean sea level and is situated in the northwest edge of the Gulf Coast Prairies and Marshes ecoregion just outside of the East Central Texas Plains ecoregion. The project being located on the inland portion of the ecoregion has older, more irregular plains and have mostly forest or savanna type vegetation potentials. (Griffith 2007). Soils in this region are generally more acidic sands and sandy loams, however it is common to have clay in the river bottom areas (TPWD). The project area is not intersected by any mapped waterways.

Geologically, the project area is in the Pleistocene-age Fluviatile Terrace Deposits. This lithological unit consists of gravel, sand, silt, and clay in various proportions with gravel more common in the older, higher terraces (USGS).

According to data from the Natural Resources Conservation Service (NRCS), the project location lies primarily within areas mapped as Kenny loamy fine sand on 2 to 8 percent slopes. The Kenney consists of deep well drained soils with very low runoff (Table 1; NRCS).

Table 1. Soils Mapped Within the APE

Soil Series	Slope	Landform	Typical Depth of Subsoil
Kenny loamy fine sand	2-8	Terraces	More than 80”

I conducted a search of the Texas Archeological Sites Atlas maintained by the Texas Historical Commission (THC) in order to identify archeological properties or districts listed in the National Register of Historic Places (NRHP), State Antiquities Landmarks (SALs),

cemeteries, or other Cultural Resources that may have been previously recorded in or near the project footprint, as well as previous surveys undertaken within a 1-mile study area around the project location (Figure II-2).

According to THC data no portion of the project area has been subjected to a survey. Three known surveys have been conducted with in the 1-mile study buffer. In 1990 a historical marker (Atlas – 5015004505) was placed regarding details for Sam Houston's Camp West of the Brazos. This marker is located 0.77 miles east of the project area. Richard Grove Cemetery (Atlas – 7015003205) is located 0.81 miles south of the project area. Stone-Motley Cemetery (Atlas 7015019405) is located 0.73 miles southeast of the project area (Table 2).

Table 2. Cultural Resources Mapped within 1-mile of the project location			
Resource Name	Description	Location	NRHP-eligibility
Sam Houston's Camp West of the Brazos	Sam Houston's camp for two weeks prior to crossing the Brazos in pursuit of the Mexican Army	Approximately 4,060 ft (0.77 miles) east of the project area	Ineligible
Richard Grove Cemetery	Cemetery next to Richard Grove Methodist Church	Approximately 4,262 ft (0.81 miles) south of the project area	N/A
Stone-Montley Cemetery	Historic-age cemetery with interments dating from the mid to late nineteenth century	Approximately 3,831 ft (0.73 miles) southeast of the project area	N/A
Source: THC (2025)			

According to the Hybrid Potential Archeological Liability Map (PALM). The entire project area is within map unit 3 (moderate potential) (Figure 2; Abbott and Pletka).

Summary and Recommendations

No previously recorded cultural resources are known to be present within the project location. While the HPALM model shows moderate potential for cultural deposits, the project location is very small (2 acres) compared to the entire ranch property (2,200 acres).

There is a low probability of the project encountering human burials; however, if burials are found the THC will be notified, and all requirements of 8 THSC 711 should be followed. If any unanticipated cultural materials or deposits are found at any stage of clearing,

preparation, or construction, the work should cease in that area and USACE and THC personnel should be notified immediately.

References

Griffith, Bryce, Omernick & Rogers
2007 Ecoregions of Texas. United States Geological Survey. Available at Ecoregion Map - Native Plant Society of Texas. Accessed 24 January 2025.

Texas Parks and Wildlife (TPWD)
Texas Ecoregions — Texas Parks & Wildlife Department

Google Earth
2022 Google Earth

United States Geological Survey (USGS)
2024 Pocket Texas Geology. United States Geological Survey. Available at USGS | Pocket Texas Geology. Accessed 24 January 2025

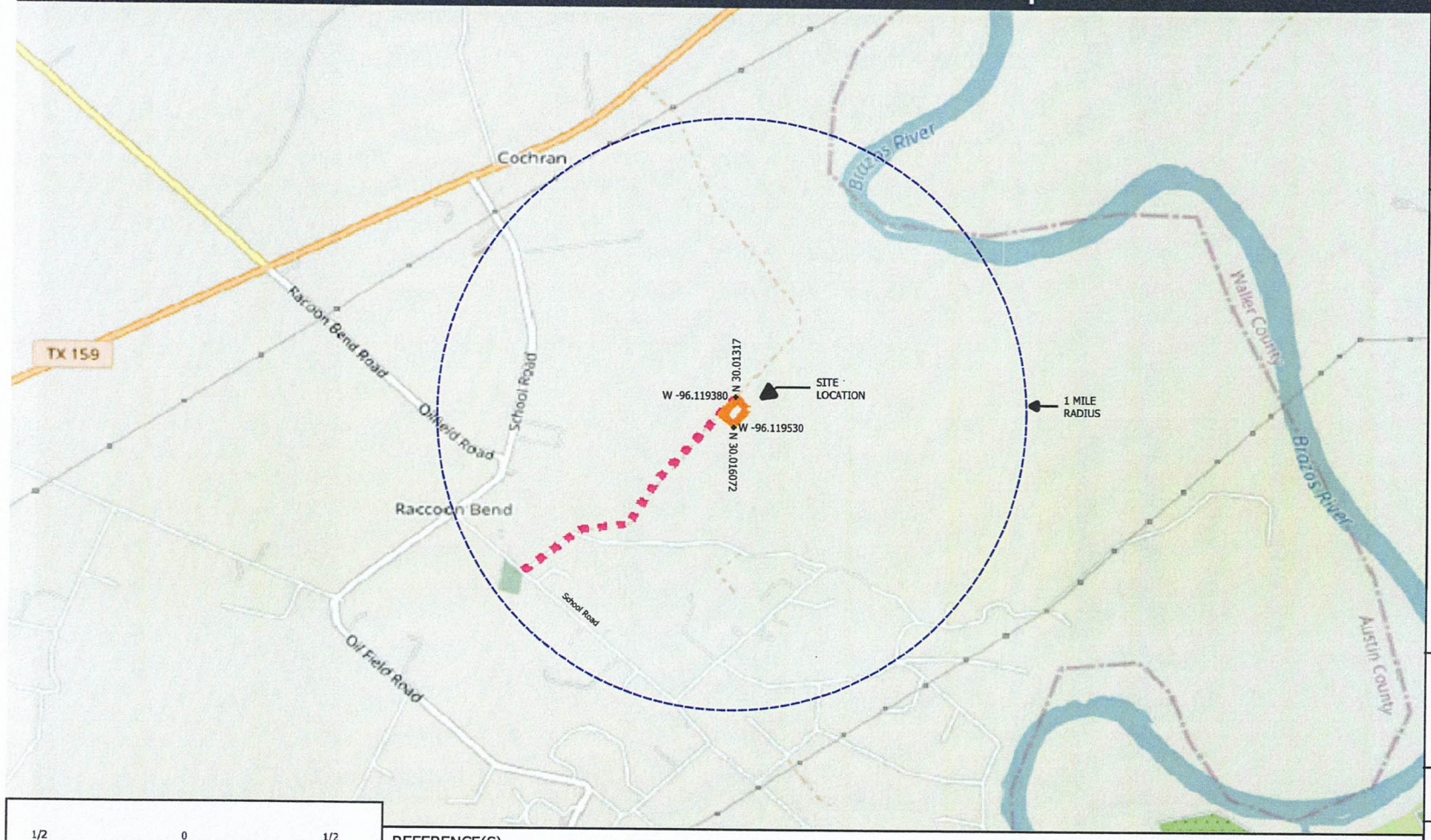
USGS Historical Topographic Map Explorer. United States Geological Survey. Available at Historical Topographic Maps - Preserving the Past | U.S. Geological Survey

National Resources Conservation Service, U.S. Department of Agriculture (NRCS)
2024 Web Soil Survey. Accessed 25 January 2025

Texas Historical Commission (THC)
2025 Texas Archeological Sites Atlas. Texas Historical Commission. Available at Search - Atlas: Texas Historical Commission. Accessed 25 January 2025

Abbott, J.T and S. Pletka
Yoakum District Hybrid Potential Archeological Liability Map. Texas Department of Transportation
TxDOT PALM Map

Austin County Waste Solutions- Site Location Map



1/2 0 1/2 MILES

REFERENCE(S)
BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP. DOWNLOADED FROM https://www.txdot.gov/apps/statewide_mapping

Legend:

- Site Location Boundaries
- Access Road to Facility
- 1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:
Site Location Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 1/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure I-2
File: ACWS Liquid Processing Facility- Site Location Map.pdf	

Legend:

- Property and Registration Boundary
- Access Road
- 1 Mile Radius
- Historical Site/ Cemetery

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:

Aeiral Map- Historical
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	
File: ACWS Liquid Processing Facility- Aerial Map.pdf	Figure: II-2

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.
Infomation layered from Texas Historical Comission- updated 2024

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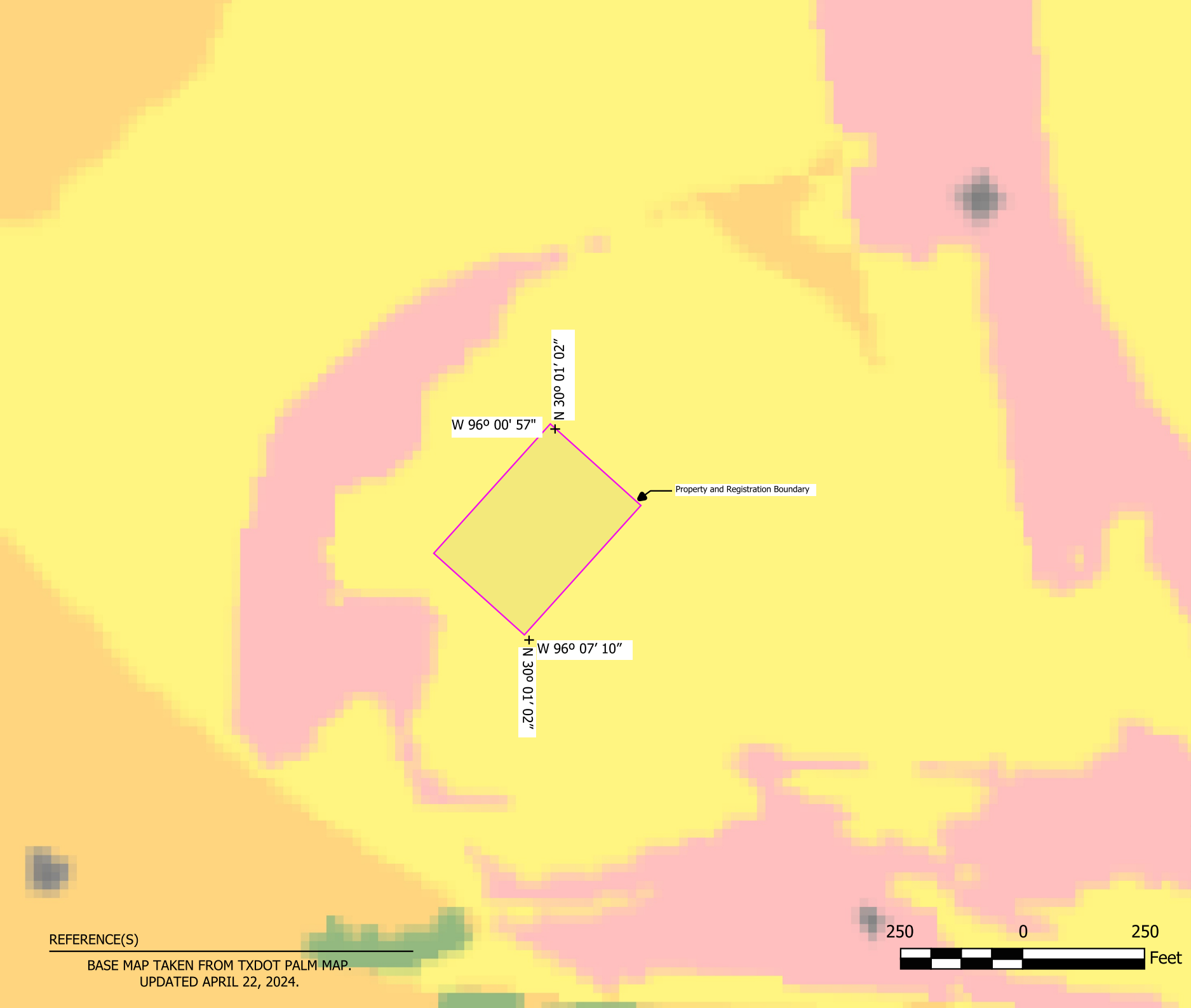

REFERENCE(S)

BASE MAP TAKEN FROM TXDOT PALM MAP.
UPDATED APRIL 22, 2024.

Legend:

Property and Registration Boundary

PALM Legend Layer 0 to 5

- 0 - None
- 1 - Low
- 2 - Low-Mod
- 3 - Mod
- 4 - High-Mod
- 5 - High
- others

N

Title:

PALM Map

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN

Revised:

File:
ACWS Liquid Processing Facility-PALM Map.pdf

Figure:
3

ATTACHMENT IIA-1

Texas Historical Commission (THC) Correspondence

From [redacted]
Date: Mon, Mar 3, 2025 at 3:50 PM
Subject: Cultural Resources Background Study for the Type V MSW Liquid Processing Registration.
To [redacted]

TEXAS HISTORICAL COMMISSION
real places telling real stories

Re: THC Courtesy Project Review
THC Tracking #202505871
Date: 03/03/2025
Cultural Resources Background Study for the Type V MSW Liquid Processing Registration.
3655 Woodley LN
Bellville,TX 77418

Description: We are preparing a Registration Application Liquid Processing Facility Type V Municipal Solid Waste for submittal to the Texas Commission on Environmental Quality.

Dear Blake Giese:
Thank you for your submittal regarding the above-referenced project. This response represents the comments of the Executive Director of the Texas Historical Commission (THC), as a courtesy review only and does not suffice for review under Section 106 of the National Historic Preservation Act or the Antiquities Code of Texas.

The review staff, led by Jeff Durst and Caitlin Brashear, has completed its review and has made the following determinations based on the information submitted for review:

Archeology Comments

- This agency reviews projects that fall under the purview of Section 106 of the National Historic Preservation Act or the Antiquities Code of Texas. As submitted, it appears there is no federal nexus for this project and it will be limited to private property, so the state and federal statutes mentioned above do not apply. We require notification of potential impacts to cemeteries, including individual burials, under the Texas Health & Safety Code, Chapter 711. If at any point this project should become subject to federal involvement (including federal funding or permitting); ownership or control by a political subdivision of the State of Texas (such as a public utility or local government); or if state agencies such as the Public Utilities Commission or Texas Commission on Environmental Quality direct you to consult with this agency, additional consultation with the State Historic Preservation Office will be required. This project will need to be resubmitted for review with additional information on the regulatory framework and proposed impacts. Further, if the project ultimately includes federal involvement, potential direct and indirect effects to aboveground historic resources must also be considered, which may additionally require a historic resources survey for the project's Area of Potential Effect.

We have the following comments: Regarding above-ground resources, should this project ultimately include Federal involvement additional consultation with our office would be required. Regarding potentially buried cultural resources should the project at some point be determined to include State or Federal involvement additional consultation with this office would be required.

We look forward to further consultation with your office and hope to maintain a partnership that will foster effective historic preservation. Thank you for your cooperation in this review process, and for your efforts to preserve the irreplaceable heritage of Texas. If the project changes, or if new historic properties are found, please contact the review staff. If you have any questions concerning our review or if we can be of further assistance, please email the following reviewers [redacted]

This response has been sent through the electronic THC review and compliance system (eTRAC). Submitting your project via eTRAC eliminates mailing delays and allows you to check the status of the review, receive an electronic response, and generate reports on your submissions. For more information, visit http://thc.texas.gov/etrac-system.

Sincerely,

Re: Texas Historical Commission
Liquid Processing Facility
Type V Municipal Solid Waste
Registration Application
7 R Solutions, LLC
Austin County, Texas

To Whom it May Concern,

We are preparing a Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW) for submittal to the Texas Commission on Environmental Quality (TCEQ) Permits Section, Waste Permits Division.

The facility is located in Austin County, Texas, outside of the extraterritorial jurisdiction of the City of Bellville. The Austin County Waste Solutions processing facility encompasses 2 acres and is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road.

In order to comply with the current Texas Administrative Code 30 TAC 330.61, we are requesting a review from the Texas Historical Commission for the development of the Facility and a subsequent rendering from THC that the development is consistent with regional plans, policies and review criteria.

If further information or documentation is required, please call the undersigned at 281-725-0121 or via email at [redacted]

Sincerely,

Blake Giese
7 R Solutions
Owner/ Operator

Attachments: Attachment 1 – Project Summary and Site Location Maps

Austin County Waste Solutions
3655 Woodley Ln
Bellville, TX 77418

RE: Cultural Resources Background Study for the Type V MSW Liquid Processing Registration.

We have conducted a Cultural Resources background study for the 2 acre privately owned property associated with the Austin County Waste Solution project located in northeastern Austin County, Texas. The project is located approximately 1500' from the intersection of Oil Field Rd and School RD on the left at the entrance of 3655 Woodley Ln. It is approximately 0.86 miles northeast of the entrance to 3655 Woodley Ln. It is bounded by a 2,200 acre privately owned family ranch. The surrounding ranch is used for beef cattle production as well as hay production (FIGURE II-2).

The 2-acre project will be privately owned and developed; the project will not require U.S. Army Corps of Engineers (USACE) oversight per section 404 of the Clean Water Act, which in turn would not trigger compliance with Section 106 of the National Historic Preservation Act. The project may require compliance with the Antiquities Code of Texas (9 TNRC 191) due to a historical marker within one mile of the project (FIGURE II-2).

The project is located at elevations between 154-160 feet above mean sea level and is situated in the northwest edge of the Gulf Coast Prairies and Marshes ecoregion just outside of the East Central Texas Plains ecoregion. The project being located on the inland portion of the ecoregion has older, more irregular plains and have mostly forest or savanna type vegetation potentials. (Griffith 2007). Soils in this region are generally more acidic sands and sandy loams, however it is common to have clay in the river bottom areas (TPWD). The project area is not intersected by any mapped waterways.

Geologically, the project area is in the Pleistocene-age Fluviatile Terrace Deposits. This lithological unit consists of gravel, sand, silt, and clay in various proportions with gravel more common in the older, higher terraces (USGS).

According to data from the Natural Resources Conservation Service (NRCS), the project location lies primarily within areas mapped as Kenny loamy fine sand on 2 to 8 percent slopes. The Kenney consists of deep well drained soils with very low runoff (Table 1; NRCS).

Table 1. Soils Mapped Within the APE

Soil Series	Slope	Landform	Typical Depth of Subsoil
Kenny loamy fine sand	2-8	Terraces	More than 80”

I conducted a search of the Texas Archeological Sites Atlas maintained by the Texas Historical Commission (THC) in order to identify archeological properties or districts listed in the National Register of Historic Places (NRHP), State Antiquities Landmarks (SALs),

cemeteries, or other Cultural Resources that may have been previously recorded in or near the project footprint, as well as previous surveys undertaken within a 1-mile study area around the project location (Figure II-2).

According to THC data no portion of the project area has been subjected to a survey. Three known surveys have been conducted with in the 1-mile study buffer. In 1990 a historical marker (Atlas – 5015004505) was placed regarding details for Sam Houston's Camp West of the Brazos. This marker is located 0.77 miles east of the project area. Richard Grove Cemetery (Atlas – 7015003205) is located 0.81 miles south of the project area. Stone-Motley Cemetery (Atlas 7015019405) is located 0.73 miles southeast of the project area (Table 2).

Table 2. Cultural Resources Mapped within 1-mile of the project location			
Resource Name	Description	Location	NRHP-eligibility
Sam Houston's Camp West of the Brazos	Sam Houston's camp for two weeks prior to crossing the Brazos in pursuit of the Mexican Army	Approximately 4,060 ft (0.77 miles) east of the project area	Ineligible
Richard Grove Cemetery	Cemetery next to Richard Grove Methodist Church	Approximately 4,262 ft (0.81 miles) south of the project area	N/A
Stone-Montley Cemetery	Historic-age cemetery with interments dating from the mid to late nineteenth century	Approximately 3,831 ft (0.73 miles) southeast of the project area	N/A
Source: THC (2025)			

According to the Hybrid Potential Archeological Liability Map (PALM). The entire project area is within map unit 3 (moderate potential) (Figure 2; Abbott and Pletka).

Summary and Recommendations

No previously recorded cultural resources are known to be present within the project location. While the HPALM model shows moderate potential for cultural deposits, the project location is very small (2 acres) compared to the entire ranch property (2,200 acres).

There is a low probability of the project encountering human burials; however, if burials are found the THC will be notified, and all requirements of 8 THSC 711 should be followed. If any unanticipated cultural materials or deposits are found at any stage of clearing,

preparation, or construction, the work should cease in that area and USACE and THC personnel should be notified immediately.

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

Sincerely,

Blake Giese
7 R Solutions
Owner/MSW Operator

References

Griffith, Bryce, Omernick & Rogers
2007 Ecoregions of Texas. United States Geological Survey. Available at Ecoregion Map - Native Plant Society of Texas. Accessed 24 January 2025.

Texas Parks and Wildlife (TPWD)
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2024 Pocket Texas Geology. United States Geological Survey. Available at USGS | Pocket Texas Geology. Accessed 24 January 2025

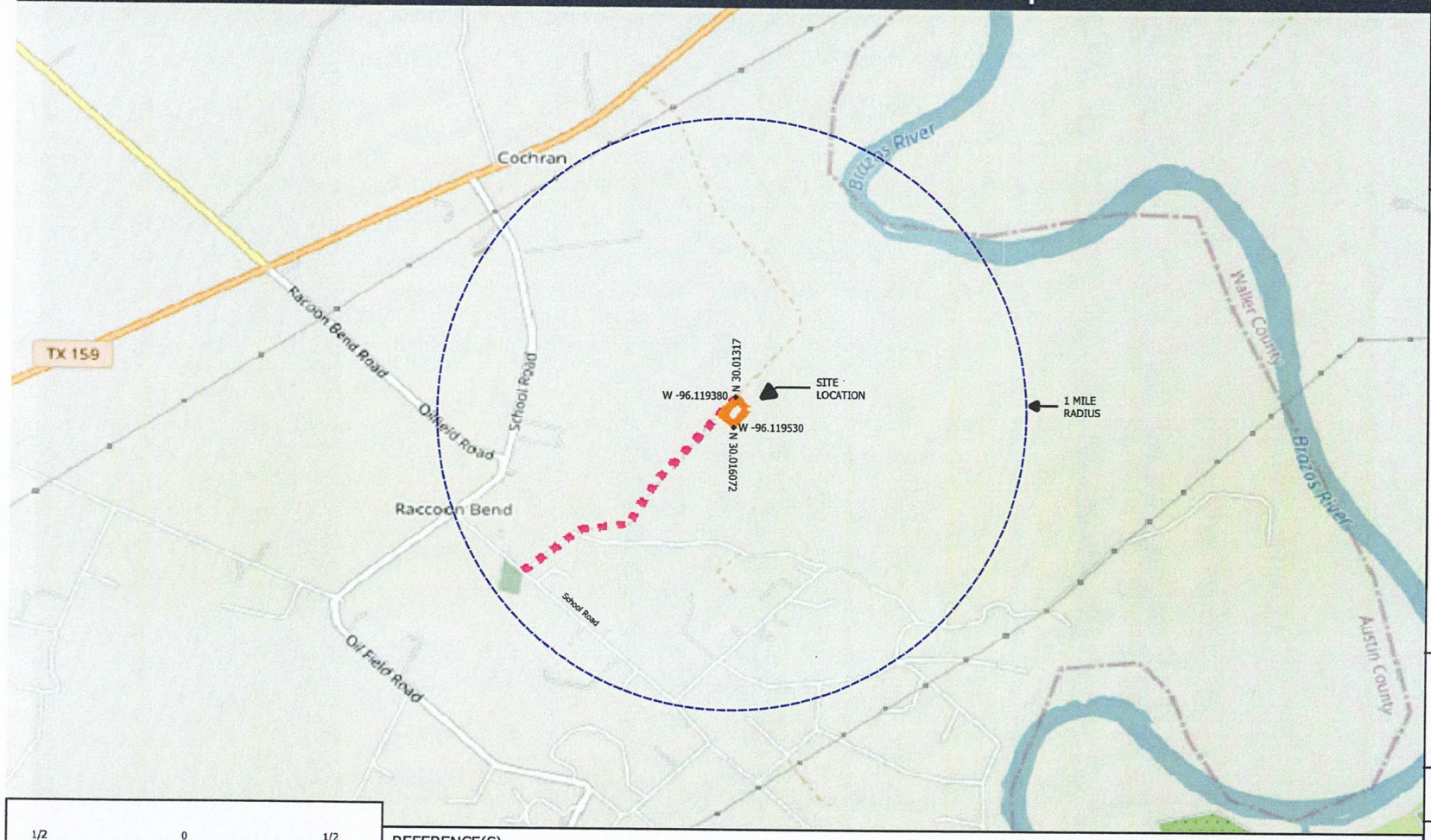
USGS Historical Topographic Map Explorer. United States Geological Survey. Available at Historical Topographic Maps - Preserving the Past | U.S. Geological Survey

National Resources Conservation Service, U.S. Department of Agriculture (NRCS)
2024 Web Soil Survey. Accessed 25 January 2025

Texas Historical Commission (THC)
2025 Texas Archeological Sites Atlas. Texas Historical Commission. Available at Search - Atlas: Texas Historical Commission. Accessed 25 January 2025

Abbott, J.T and S. Pletka
Yoakum District Hybrid Potential Archeological Liability Map. Texas Department of Transportation
TxDOT PALM Map

Austin County Waste Solutions- Site Location Map



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REFERENCE(S)
BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP. DOWNLOADED FROM https://www.txdot.gov/apps/statewide_mapping

Legend:

- Site Location Boundaries
- Access Road to Facility
- 1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:
Site Location Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 1/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure I-2
File: ACWS Liquid Processing Facility- Site Location Map.pdf	

Legend:

- Property and Registration Boundary
- Access Road
- 1 Mile Radius
- Historical Site/ Cemetery

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:

Aeiral Map- Historical
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	
File: ACWS Liquid Processing Facility- Aerial Map.pdf	Figure: II-2

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.
Infomation layered from Texas Historical Comission- updated 2024

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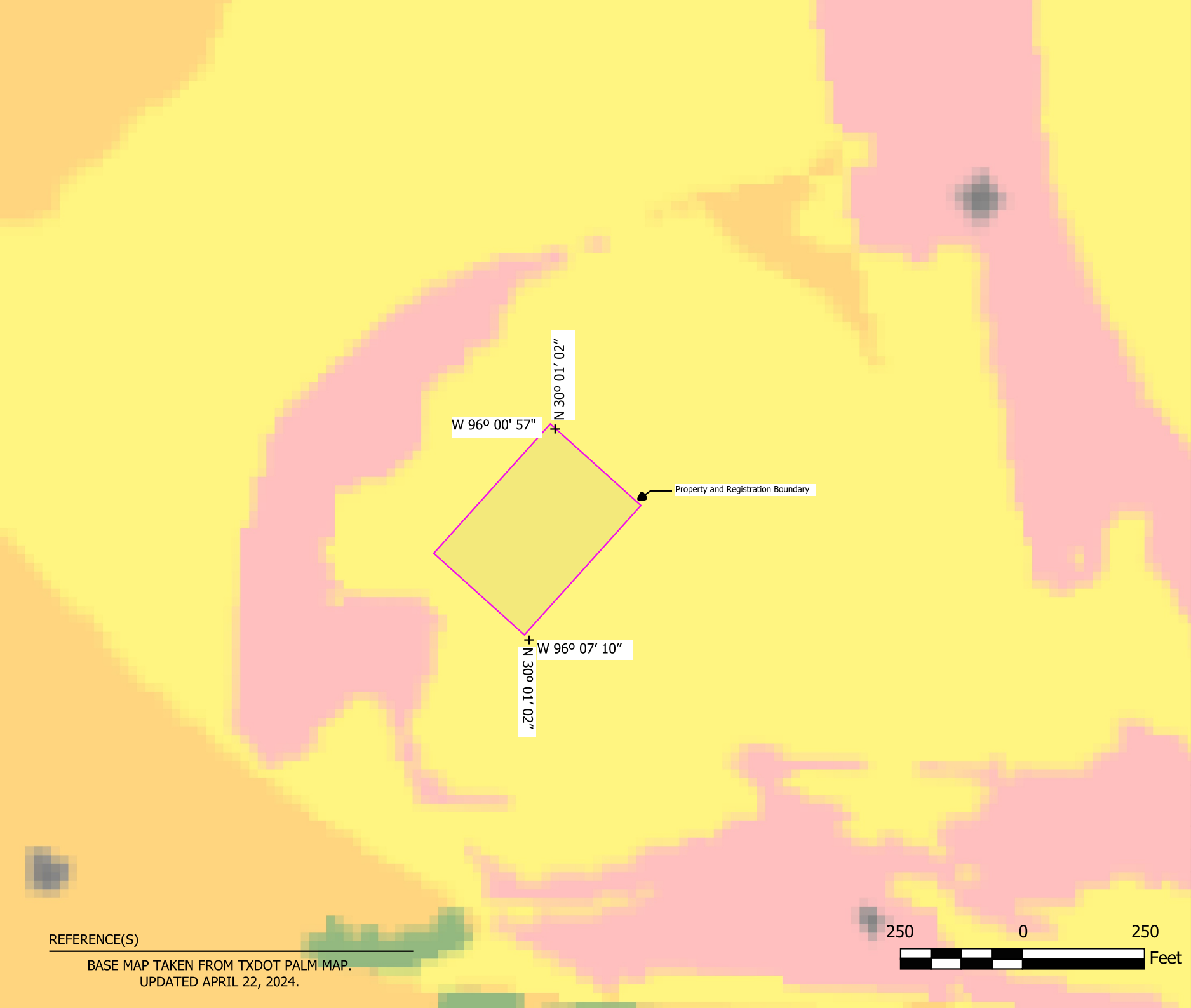

REFERENCE(S)

BASE MAP TAKEN FROM TXDOT PALM MAP.
UPDATED APRIL 22, 2024.

Legend:

Property and Registration Boundary

PALM Legend Layer 0 to 5

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- 1 - Low
- 2 - Low-Mod
- 3 - Mod
- 4 - High-Mod
- 5 - High
- others

N

Title:

PALM Map

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN

Revised:

File:
ACWS Liquid Processing Facility-PALM Map.pdf

Figure:
3

ATTACHMENT IIA-2

Houston Galveston Area
Council of Governments
(HGACG)

- Email Sent
No Repsonse

21 January 2025

Erin Livingston
Solid Waste Management
Houston-Galveston Area Council
3555 Timmons Lane Suite 120
Houston, TX 77227

Re: Houston-Galveston Area Council of Governments Location Restrictions Review
Liquid Processing Facility
Type V Municipal Solid Waste
Registration Application
7 R Solutions, LLC
Austin County, Texas

Dear Mr. Livingston,

We are preparing a Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW) for submittal to the Texas Commission on Environmental Quality (TCEQ) Permits Section, Waste Permits Division.

The facility is located within Austin County, Texas, outside of the extraterritorial jurisdiction of the City of Bellville. The Austin County Waste Solutions processing facility encompasses 2 acres and is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road.

In order to comply with the current Texas Administrative Code 30 TAC 330.61 we are requesting a review from Houston-Galveston Area Council (HGAC) for the development of the Facility and a subsequent rendering from HGAC that the development is consistent with regional plans, policies and review criteria.

If further information or documentation is required, please call the undersigned at 281-725-0121 or via email at [redacted]

Sincerely,

Blake Giese
7 R Solutions
Owner/ Operator

Attachments:
Attachment1- Project Summary and Site Maps.

21 January 2025

Blake Giese
Austin County Waste Solutions
3655 Woodley Ln
Bellville, TX 77418

RE: Cultural Resources Background Study for the Type V MSW Liquid Processing Registration.

We have conducted a Cultural Resources background study for the 2 acre privately owned property associated with the Austin County Waste Solution project located in northeastern Austin County, Texas. The project is located approximately 1500' from the intersection of Oil Field Rd and School RD on the left at the entrance of 3655 Woodley Ln. It is approximately 0.86 miles northeast of the entrance to 3655 Woodley Ln. It is bounded by a 2,200 acre privately owned family ranch. The surrounding ranch is used for beef cattle production as well as hay production (FIGURE II-2).

The 2-acre project will be privately owned and developed; the project will not require U.S. Army Corps of Engineers (USACE) oversight per section 404 of the Clean Water Act, which in turn would not trigger compliance with Section 106 of the National Historic Preservation Act. The project may require compliance with the Antiquities Code of Texas (9 TNRC 191) due to a historical marker within one mile of the project (FIGURE II-2).

The project is located at elevations between 154.68 feet above mean sea level and is situated in the northwest edge of the Gulf Coast Prairies and Marshes ecoregion just outside of the East Central Texas Plains ecoregion. The project being located on the inland portion of the ecoregion has older, more irregular plains and have mostly forest or savanna type vegetation potentials. (Griffith 2007). Soils in this region are generally more acidic sands and sandy loams, however it is common to have clay in the river bottom areas (TPWD). The project area is not intersected by any mapped waterways.

Geologically, the project area is in the Pleistocene-age Fluviatile Terrace Deposits. This lithological unit consists of gravel, sand, silt, and clay in various proportions with gravel more common in the older, higher terraces (USGS).

According to data from the Natural Resources Conservation Service (NRCS), the project location lies primarily within areas mapped as Kenny loamy fine sand on 2 to 8 percent slopes. The Kenney consists of deep well drained soils with very low runoff (Table 1; NRCS).

Table 1. Soils Mapped Within the APE

Soil Series	Slope	Landform	Typical Depth of Subsoil
Kenny loamy fine sand	2-8	Terraces	More than 80”

We conducted a search of the Texas Archeological Sites Atlas maintained by the Texas Historical Commission (THC) in order to identify archeological properties or districts listed in the National Register of Historic Places (NRHP), State Antiquities Landmarks (SALs), cemeteries, or other Cultural Resources that may have been previously recorded in or near the project footprint, as well as previous surveys undertaken within a 1-mile study area around the project location (Figure II-2).

According to THC data no portion of the project area has been subjected to a survey. Three known surveys have been conducted with in the 1-mile study buffer. In 1990 a historical marker (Atlas – 5015004505) was placed regarding details for Sam Houston's Camp West of the Brazos. This marker is located 0.77 miles east of the project area. Richard Grove Cemetery (Atlas – 7015003205) is located 0.81 miles south of the project area. Stone-Motley Cemetery (Atlas 7015019405) is located 0.73 miles southeast of the project area (Table 2).

Table 2. Cultural Resources Mapped within 1-mile of the project location

Resource Name	Description	Location	NRHP-eligibility
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Richard Grove Cemetery	Cemetery next to Richard Grove Methodist Church	Approximately 4,262 ft (0.81 miles) south of the project area	N/A
Stone-Montley Cemetery	Historic-age cemetery with interments dating from the mid to late nineteenth century	Approximately 3,831 ft (0.73 miles) southeast of the project area	N/A
Source: THC (2025)			

According to the Potential Archeological Liability Map (PALM). The entire project area is within map unit 3 (moderate potential) (Figure 3; Abbott and Pletka).

Summary and Recommendations

No previously recorded cultural resources are known to be present within the project location. While the PALM model shows moderate potential for cultural deposits, the project location is very small (2 acres) compared to the entire ranch property (2,200 acres).

21 January 2025

There is a low probability of the project encountering human burials; however, if burials are found the THC will be notified, and all requirements of 8 THSC 711 should be followed. If any unanticipated cultural materials or deposits are found at any stage of clearing, preparation, or construction, the work should cease in that area and USACE and THC personnel should be notified immediately.

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

Sincerely,

Blake Giese
7 R Solutions
Owner/MSW Operator

21 January 2025

References

Griffith, Bryce, Omernick & Rogers
2007 Ecoregions of Texas. United States Geological Survey. Available at Ecoregion Map - Native Plant Society of Texas. Accessed 24 January 2025.

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2025 Texas Archeological Sites Atlas. Texas Historical Commission. Available at Search - Atlas: Texas Historical Commission. Accessed 25 January 2025

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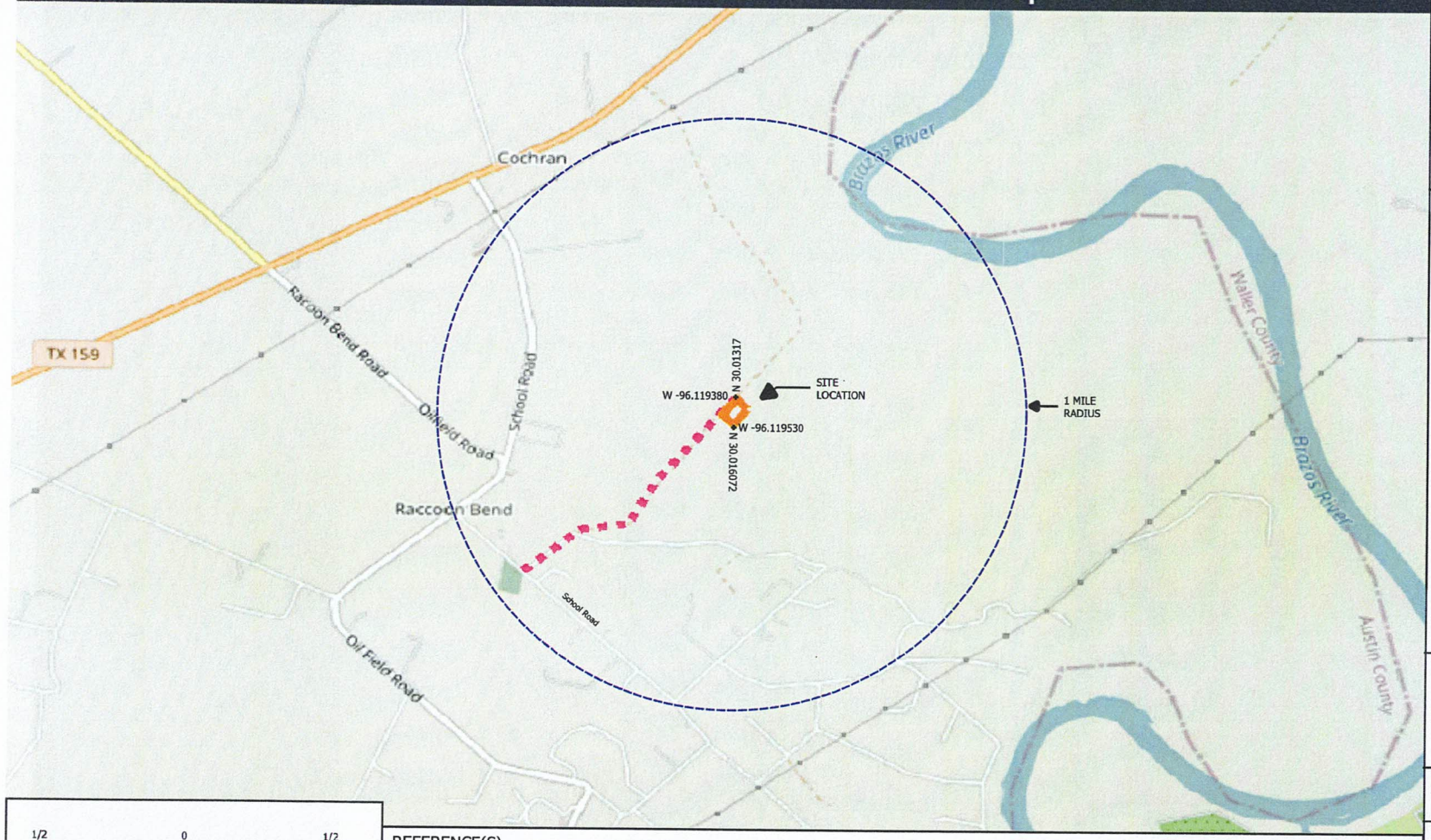
TxDOT PALM Map

Austin County Waste Solutions- Site Location Map



1/2 0 1/2 MILES

REFERENCE(S)
BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP. DOWNLOADED FROM https://www.txdot.gov/apps/statewide_mapping

Legend:

- Site Location Boundaries
- Access Road to Facility
- 1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:
Site Location Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 1/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure I-2
File: ACWS Liquid Processing Facility- Site Location Map.pdf	

Legend:

- Property and Registration Boundary
- Access Road
- 1 Mile Radius
- Historical Site/ Cemetery

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:

Aeiral Map- Historical
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

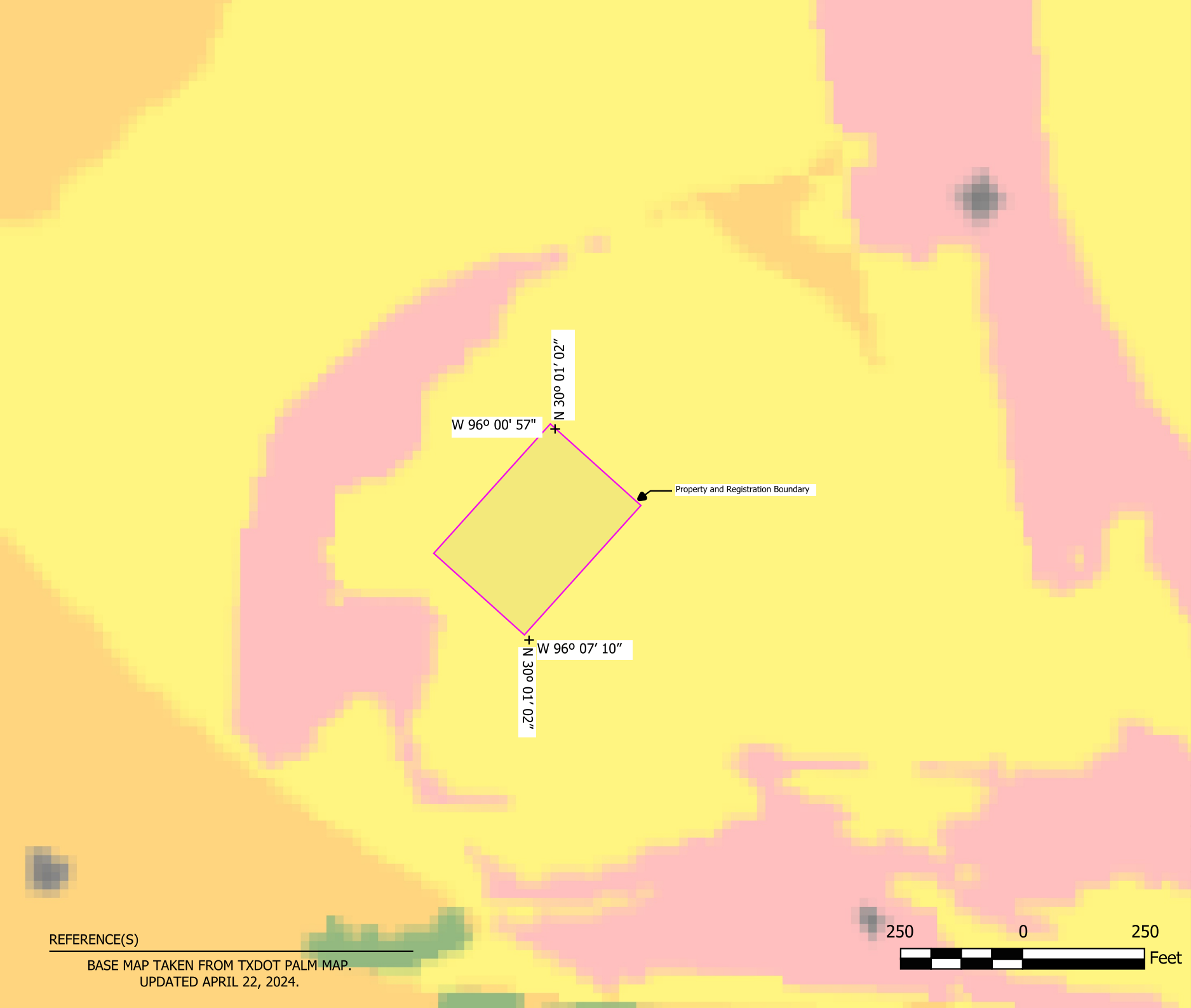
Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	
File: ACWS Liquid Processing Facility- Aerial Map.pdf	Figure: II-2

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.
Infomation layered from Texas Historical Comission- updated 2024

2640 0 2640 Feet



REFERENCE(S)

BASE MAP TAKEN FROM TXDOT PALM MAP.
UPDATED APRIL 22, 2024.

Legend:

Property and Registration Boundary

PALM Legend Layer 0 to 5

- 0 - None
- 1 - Low
- 2 - Low-Mod
- 3 - Mod
- 4 - High-Mod
- 5 - High
- others

N

Title:

PALM Map

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN

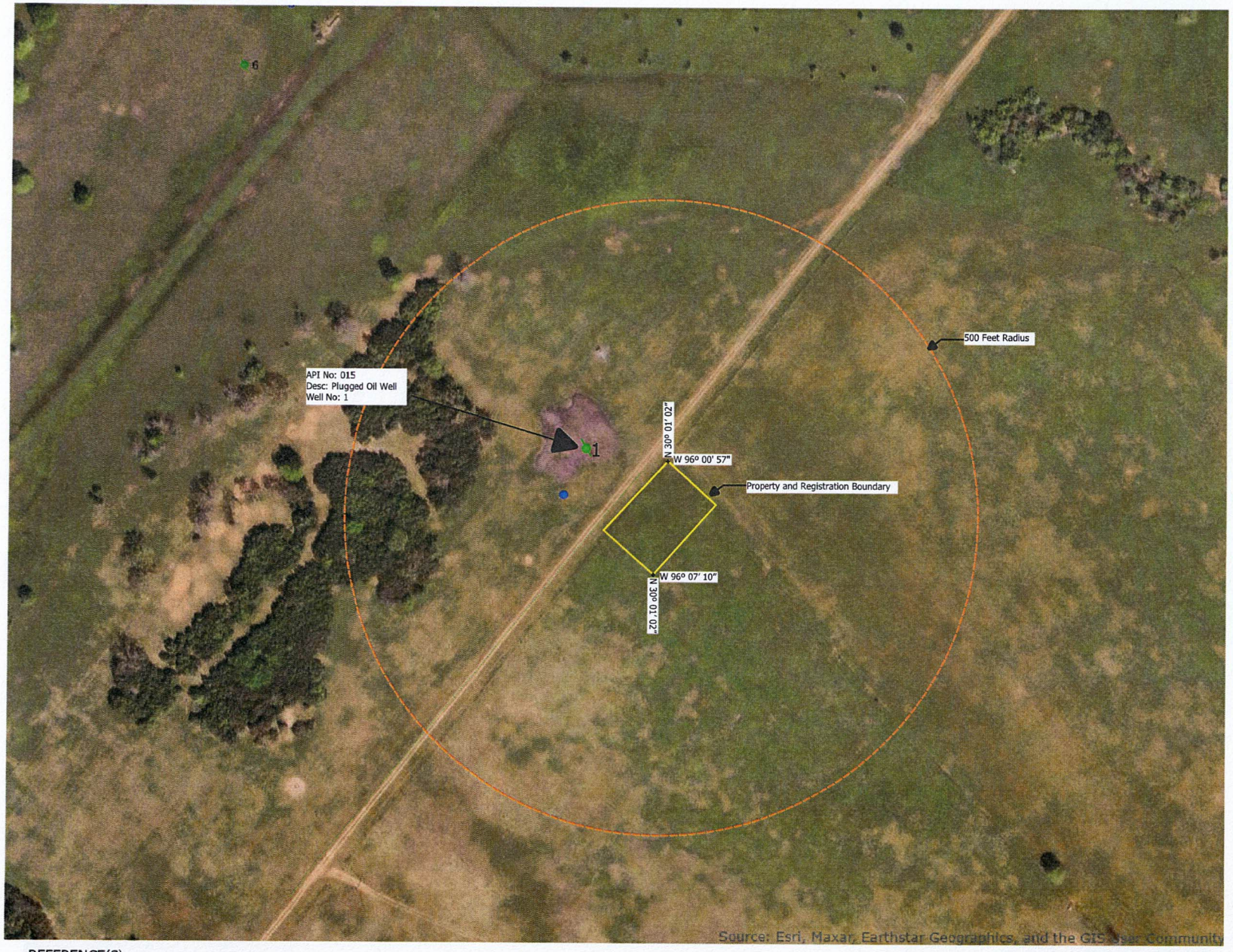
Revised:

File:
ACWS Liquid Processing Facility-PALM Map.pdf

Figure:
3

ATTACHMENT IIB

Water Well Database



REFERENCE(S)

BASE MAP TAKEN FROM TEXAS RAIL ROAD COMISSION
GISVIEWER ERSI Updated December 2024

250 0 250 Feet

Legend:
- Property and Registration Boundary
- Access Road
- 500 Feet Radius
- Plugged Oil Well
- Proposed Water Well

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:
Oil, Gas, and Water Map

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure:
File: ACWS Liquid Processing Facility-Oil, Gas, and Water Map.pdf	II-5

ATTACHMENT IIC

Transportation

ATTACHMENT IIC-1

Texas Department of Transportation (TxDOT) Correspondence

Docusign Envelope ID: BFE8EC16-DEA7-43A5-91D3-682ED9BCB788

125 E 11th St | Austin, Texas 78701
512.463.8588
txdot.gov

February 26, 2025

7 R Solutions, LLC
Blake Giese

RE: Texas Department of Transportation Traffic Review – Liquid Processing Facility Type V Municipal Solid Waste – Registration Application

Mr. Giese,

The Texas Department of Transportation (TxDOT) has reviewed the traffic report pertaining to the Liquid Processing Facility Type V Municipal Solid Waste. TxDOT's Yoakum District did not find any traffic impacts that would require remediation based on internal analysis.

TxDOT also reviewed the facility for regulations relating to the Highway Beautification Act and found that the facility will not require screening to block the view of the facility from the traveling public.

If there are any questions regarding the findings, please contact Mark Johnson at [redacted]

Thank you,

DocuSigned by:
Mark Johnson
C6E3A921602648F...

Mark Johnson, P.E.
Contracts and MMS Section Director, TxDOT Maintenance Division

Re: Texas Department of Transportation Traffic Review
Liquid Processing Facility
Type V Municipal Solid Waste
Registration Application
7 R Solutions, LLC
Austin County, Texas

To Whom it may Concern,

We are preparing a Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW) for submittal to the Texas Commission on Environmental Quality (TCEQ) Permits Section, Waste Permits Division.

The facility is located in Austin County, Texas, outside of the extraterritorial jurisdiction of the City of Bellville. The Austin County Waste Solutions processing facility encompasses 2 acres and is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road.

In order to comply with the current Texas Administrative Code 30 TAC 330.61, we are requesting a review from Houston-Galveston Area Council (HGAC) for the development of the Facility and a subsequent rendering from HGAC that the development is consistent with regional plans, policies and review criteria.

If further information or documentation is required, please call the undersigned at 281-725-0121 or via email at [redacted]

Sincerely,

Blake Giese
7 R Solutions
Owner/ Operator

Attachments: Traffic Report

Table of Contents

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III. Future Roadway Conditions.....2
IV. Existing Traffic Volumes.....2
V. Proposed Traffic Volumes.....5
VI. Site Traffic Characteristics.....6
VII. Conclusion.....7

Executive Summary

We have conducted a Traffic Report on behalf of 7 R Solutions LLC, for the proposed Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW), to be located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. Access to the facility will be a 0.86-mile private driveway to the facility. The proposed facility will be located on 2-acres with an office and a covered area to contain all equipment needed for the facility. Construction of the proposed project is estimated to begin in the middle of 2025 and be completed by the end of the same year.

I. Introduction

A. Purpose

We have conducted a Traffic Report on behalf of 7 R Solutions LLC, for the proposed Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW), to be located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. Construction of the proposed project is estimated to begin in the middle of 2025 and be completed by the end of the same year.

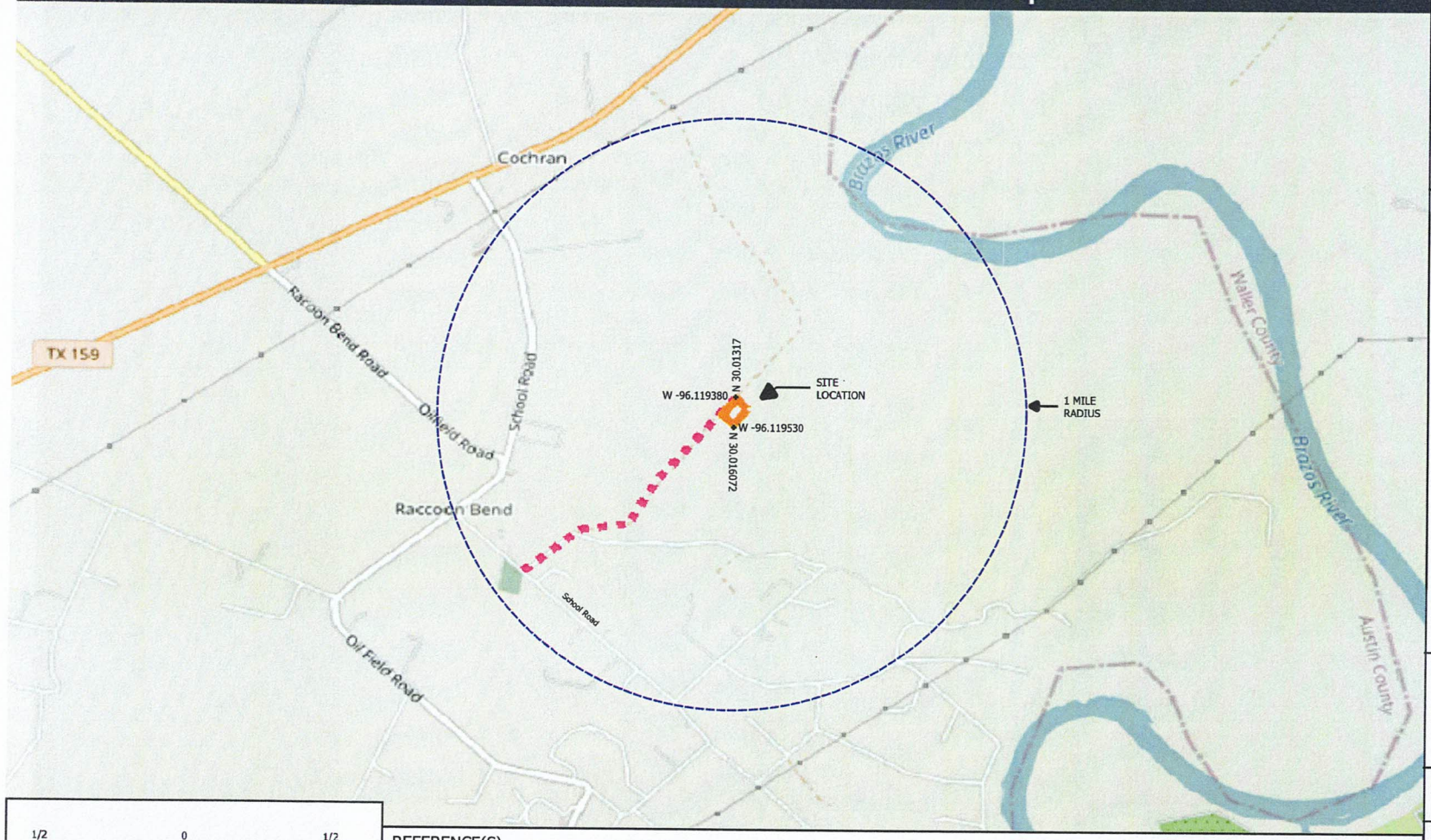
B. Methodology

The Traffic report was conducted for submittal to the Texas Commission on Environmental Quality (TCEQ) to support 7 R Solutions request to construct the project. The Traffic Report estimated the projected traffic volumes along School Road and Oil Field Road and evaluated the adequacy of the study roads to accommodate projected trips generated by the proposed development. Below you will see the location of the project with respect to Oil Field Road and School Road (Figure 1).

C. Study Area

The proposed project is covering a 2-acre area bounded by a 2,200-acre family ranch. The entrance to the facility's easement is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. The 2-acre facility is 0.86 miles northeast of this entrance on the right.

Austin County Waste Solutions- Site Location Map



1/2 0 1/2 MILES

REFERENCE(S)
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Legend:

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- Access Road to Facility
- 1 Mile Radius

Seal:

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7/10/25

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Title:
Site Location Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 1/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure I-2
File: ACWS Liquid Processing Facility- Site Location Map.pdf	

The study area is based off the roadways that fall within a 1-mile radius of the proposed 2-acre facility (Figure I-2 Map). This includes Oil Field Road, School Road to the west, and School Road to the south.

II. Existing Roadway Conditions

School Road is south and west of the facility. It is an existing two-lane undivided road with a posted speed limit of 35 miles per hour. The road is maintained by the county. The portion of School Road to the south of the facility is typically used by local traffic.

Oil Field Road is located west of the facility. It is an existing two-lane undivided road with a posted speed limit of 35 miles per hour. The road is maintained by the county.

III. Future Roadway Conditions

Based of the TxDot Rural Transportation Improvement Program 2021-2024 for the Austin County, Yoakum District there is no identified specific future upgrades for either of these county roads.

IV. Existing Traffic Volumes

After reviewing the Texas Department of Transportation's (TxDOT) Traffic Count Database System (TCDS). The daily traffic flow on school road within 1 mile west of the project is 335 vehicles. The estimated AADT is around 27% growth by 2042. This growth increase is approximately 1.2% annually. The traffic enters School Road which then turns to Oil Field Road (Figure 2 &3).

Future Traffic & Percent Truck

AADT is based on 2022 Traffic Volumes

Route Name	008AA5103
AADT	335
2042 Estimated AADT	90
24 Hour Truck Percentage	3.2

Figure 2

Texas Roadways Unsegmented

Route Name	008AA5103
Roadbed Type	Single Roadbed
Name/Number	SCHOOL RD
Begin DFO	0
End DFO	0.992

Figure 3

Oil Field Road has an average daily traffic flow of 509 vehicles. The estimated AADT is around 29% growth by 2042. This growth increase is approximately 1.3% annually (Figure 4 & 5).

Future Traffic & Percent Truck

AADT is based on 2022 Traffic Volumes

Route Name	008AA5511
AADT	509
2042 Estimated AADT	150
24 Hour Truck Percentage	13.3

Figure 4

Texas Roadways Unsegmented

Route Name	008AA5511
Roadbed Type	Single Roadbed
Name/Number	OIL FIELD RD
Begin DFO	0
End DFO	3.363

Figure 5

TCDS does not have any data showing for School Road in front of the project entrance, south of the facility. Nonlocal traffic does not turn off Oil Field Road and onto School Road in front of the project entrance. Based off the TXDOT Statewide Planning Map It Shows the

AADT based off 2022 Traffic Volumes being 60 vehicles with the 2042 estimated AADT will still be 60 vehicles or 0% annual growth (Figure 6 & 7).

Future Traffic & Percent Truck

AADT is based on 2022 Traffic Volumes

Route Name	008AA5512
AADT	60
2042 Estimated AADT	60
24 Hour Truck Percentage	3.2

Figure 6

Texas Roadways Unsegmented

Route Name	008AA5512
Roadbed Type	Single Roadbed
Name/Number	SCHOOL RD
Begin DFO	0
End DFO	1.552

Figure 7

V. Proposed Traffic Volumes

A. No Build Volumes

Based off the TxDOT Traffic Count Database, the average daily traffic flow on School Road within 1 mile west of the project is 335 vehicles. Oil Field Road has an average daily traffic flow of 509 vehicles. The average daily traffic flow on School Road south of the facility is 60 vehicles.

B. Build Volumes

During the period of construction, we could see a higher traffic flow, however we will not be receiving waste loads during this time. Where we will have loads delivering materials and employees coming on site to work. I do not see this traffic volume being higher than the loads receiving when the operation begins. Once the facility is constructed, we are expecting an average increase in traffic to the facility to be an average of 41 vehicles in a 24-hour period.

VI. Site Traffic Characteristics

A. Existing Site Trip Generation

The proposed facility site is currently used for beef cattle and hay production. There is minimal vehicle trips used for this operation. Approximately 2 trips per day when hay production is not in operation, which will increase it to approximately 8 vehicle trips per day.

B. Proposed Site Trip Generation

Based off our maximum gallon capacity of 42,000 gallons per day, the facility will generate a maximum average of approximately 13 pump trucks per day. Based off the data conducted the project will only add approximately 13 trucks to the current daily average to the facility. The facility will have an average of 3 employees accounting for approximately 10 trips per day. Aside from the landowner, access will only be given to TCEQ officials, employees and customers that are contracted to dispose at the facility. No access will be given to the public (Table 1)

Generated Trip Level	Inbound Pump Trucks			Employee Trips			24-Hour Weekday
	In	Out	Total	In	Out	Total	Total
Low	8	8	16	6	6	12	28
High	15	15	30	12	12	24	54

The operation hours for receiving waste at the proposed facility are 7 a.m. to 7 p.m. Monday through Friday.

C. Trip Distribution and Traffic Assignment

The proposed facility will act as a disposal for domestic septage only. Pump trucks will dispose in our Liquid Processing Facility to be screened and treated for final disposal on our BFU sites. Employees will make up a small percentage of the overall trips to the facility. A trash company will be contracted to pick up all the screened inorganics (±2% of all waste received) and take them to a TCEQ approved landfill. This will also make up a very small percentage of the overall trips to the facility.

The general trip distribution percentages used for the site are summarized below:

Pump trucks (Septic Companies):

- To/ from School Road to the south 100% of the time as that is the access point to the facility
- To/ from School Road to the west approximately 50% of the time to access Oil Field Road and get to School Road again to the south.
- To/ from Oil Field Road 100% of the time to get to school road to the south.

Employee and contractors (trash service)

- To/ from School Road to the south 100% of the time as that is the access point to the facility
- To/ from School Road to the west approximately 50% of the time to access Oil Field Road and get to School Road again to the south.
- To/ from Oil Field Road 100% of the time to get to school road to the south.

VII. Conclusions

We have conducted a Traffic Report on behalf of 7 R Solutions LLC, for the proposed Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW). The proposed facility will be located on 2-acres with an office and a covered area to contain all equipment needed for the facility. Access to the facility will be a 0.86-mile private driveway to the facility.

The Traffic Report estimated the average traffic volume for the roads that fall within one mile of the facility. The projected volumes were developed by looking at the existing volumes on the study roads and annual growth rate. I then added the daily trips generated by the proposed facility.

In summary, the existing data found through TXDOT Statewide Planning Map, Traffic Count Database System (TCDS), and TxDot Rural Transportation Improvement Program 2021-2024 for the Austin County, Yoakum District show there is no near future plan of road development and very low traffic growth for the roads studied.

ATTACHMENT IID

Wetlands

ATTACHMENT IID-1

Wetland and Waterbody Delineation Report

Summary of Findings Report

Wetland and Waterbody Delineation
7 R Solutions, LLC
Type V Registration Application

Submitted to:
7 R Solutions, LLC

Submitted by:
Faith Chase, Wildlife Biologist
22 E Chatham St
Bellville, TX 77418

March 2025

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1.0 Introduction

Faith Chase prepared this Summary of Findings Report on behalf of 7 R Solutions, LLC for a Type V Liquid Waste Processing Facility located in Austin County, Texas. She performed a wetland and waterbody delineation for the Project to ensure compliance with all federal regulations and to assist with the evaluation of impact that may result from new facility construction within the Project Area.

2.0 Methodology

Faith performed an environmental resources analysis of the entire Project. A Project Survey Area was created to identify all protected resources that may be impacted by the Project. The The environmental resources analysis consisted of two components: (1) an initial desktop review of the survey area and (2) a field survey conducted within the survey area to observe and record existing conditions. A summary of the methods is presented in the following sections

2.1 Initial Desktop Review

Prior to conducting field surveys, Faith reviewed publicly available information to gain an understanding of the survey area, including layout, land cover, habitat types, and current and historic land use. These features were assessed as a preliminary determination of the presence of existing or potentially occurring agency regulated or protected environmental resources within the survey area. Faith reviewed information from the following sources:

- USGS Topographic Maps
- HIstoric and Current Aerial Photographs
- USGS National Hydrography Dataset (NHD)
- National Wetlands Inventory (NWI) Dataset
- Natural Resource Conservation Service (NRCS) soil survey database
- Federal Emergency Management Agency (FEMA) floodplain Maps

2.2 Field Surveys

The environmental resources survey consisted of the identification of all Waters of the United States (WOUS) including wetlands, waterbodies, and ponds. All environmental resources identified within the Survey Area were identified within the Survey Area were delineated. Photographs of the resources identified within the Survey Area are Provided in Appendix B.

2.2.1 Wetlands

Wetland and waterbody surveys consisted of a pedestrian survey conducted in the field within the Survey Area to observe and record existing site conditions. Faith followed the USACE standard procedures to evaluate WOUS, including wetlands and waterbodies subject to regulations under the Clean Water Act, otherwise known as jurisdictional WOUS. Procedures followed were in accordance with the guidance established in the Corps of Engineers Wetlands Delineation Manual: Great Plains Region, Version 2.0 (USACE, 2010); and the USACE Jurisdictional Determination Form Instructional Guide (USACE, 2007). The USACE guidance documents state that, with certain exemptions, an area must have adequate hydrology, a predominance of hydrophytic vegetation, and the presence of hydric soil indicators to be considered a wetland.

The predominate land cover, habitat types, and potential aquatic resources within the Survey ARea were evaluated and documented. At each sample location, Faith performed an assessment of vegetation, soil type/characteristics, and surface/subsurface hydrology to determine the presence or absence of weltand indicators. Data collected at the sample location is presented on the USACE Routine Wetland Determination DAta Forms provided in Appendix C. Photographs depicting typical site conditions during the field surveys are included in Appendix B.

Vegetation was identified by morphological indicators such as flowers, leaves, clums, stalks, ligules, bark, blubs, stems, nodes, and fruit. The wetland indicator status for vegetation noted during the evaluations were obtained from the USACE National Wetland Plant List. Soil was evaluated by using criteria established by the NRCS Keys to Soil Taxonomy (Soil Survey Staff, 2015) and Field Indicators of Hydric Soils in the United States (USDA NRCS, 2016). Soil Colors wr3 evaluated using a Munsell Color Chart. Hydrology was evaluated through direct observation of standing water and/or saturated soil, and indirectly through observation of primary and secondary visual indicators of hydrology, as indicated in the Regional Supplement.

2.2.2 Waterbodies

Waterbody surveys were conducted within the Survey ARea to identify areas that displayed an ordinary high-water mark (OHWM). An OHWM is indicated as physical characteristics defined y the USACE as a “clear, natural line impressed on the bank, shelving, changes in the character soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.” Some areas that may not have an OHWM are also included as water bodies, such as manmade ponds, lakes, and other bodies of open water.

3.0 Field Survey Results

3.1 Wetlands

No wetlands were identified by Faith within the Survey Area

3.2 Vegetation

On the Project site, vegetation included: Bermuda grass(*Cynodon dactylon*), Henbit (*Lamium amplexicaule)*, Spreading Hedge Parsley (*Torilis arvensis*), Chickweed (*Stellaria media*), Hairy Vetch (*Vicia villosa*), Texas Wintergrass (*Nassella leuctricha*).

3.3 Soils

Using a spade, Faith took a twelve inch soil sample in two pieces that broke at a natural change in the soils. The top six inches were loamy and the bottom seven inches were a sandy loam. Review of the NRCS Soil Survey data showed data showed a total of one soil series are located within the Survey Area, which are displayed below in Table 1.

Table 1: NRCS Soils Located within the Survey Area

Soil Series Name	**Slope**	**NRCS Drainage Rating**	**NRCS Hydrology Rating**
Kenney loamy fine sand	2-8%	Well Drained	Not Hydric

3.4 Hydrology

The Survey Area is located within one Environmental Protection Agency (EPA) Hydrologic Unit Code (HUC) 8 watershed, Lewis Creek-Lower Brazos (12030103). No primary or secondary hydrologic indicators were observed within the Survey Area. Review of the aerial imagery confirms these observations.

3.5 Waterbodies

No waterbodies were identified by Faith within the Survey Area.

3.6 Historical Land Use and Modifications

The site has historically been used for cattle grazing and hay production, as evident by aerial imagery.

4.0 Clean Water Act Section 404 Discussion

Section 404 of the Clean Water Act regulates the discharge of dredged or fill material into WOUS, including wetlands, streams, and ponds. Any activity that may result in the discharge or dredge or fill material is subject to permitting, pending the level of impacts that result from the proposed action. Faith did not identify any wetlands or waterbodies within the Survey Area.

5.0 Conclusion

Faith's resource analysis of th Project Survey determined that no wetlands or waterbodies are present within the Survey Area. This report is intended for planning purposes and has not been submitted to the USACE for concurrence.

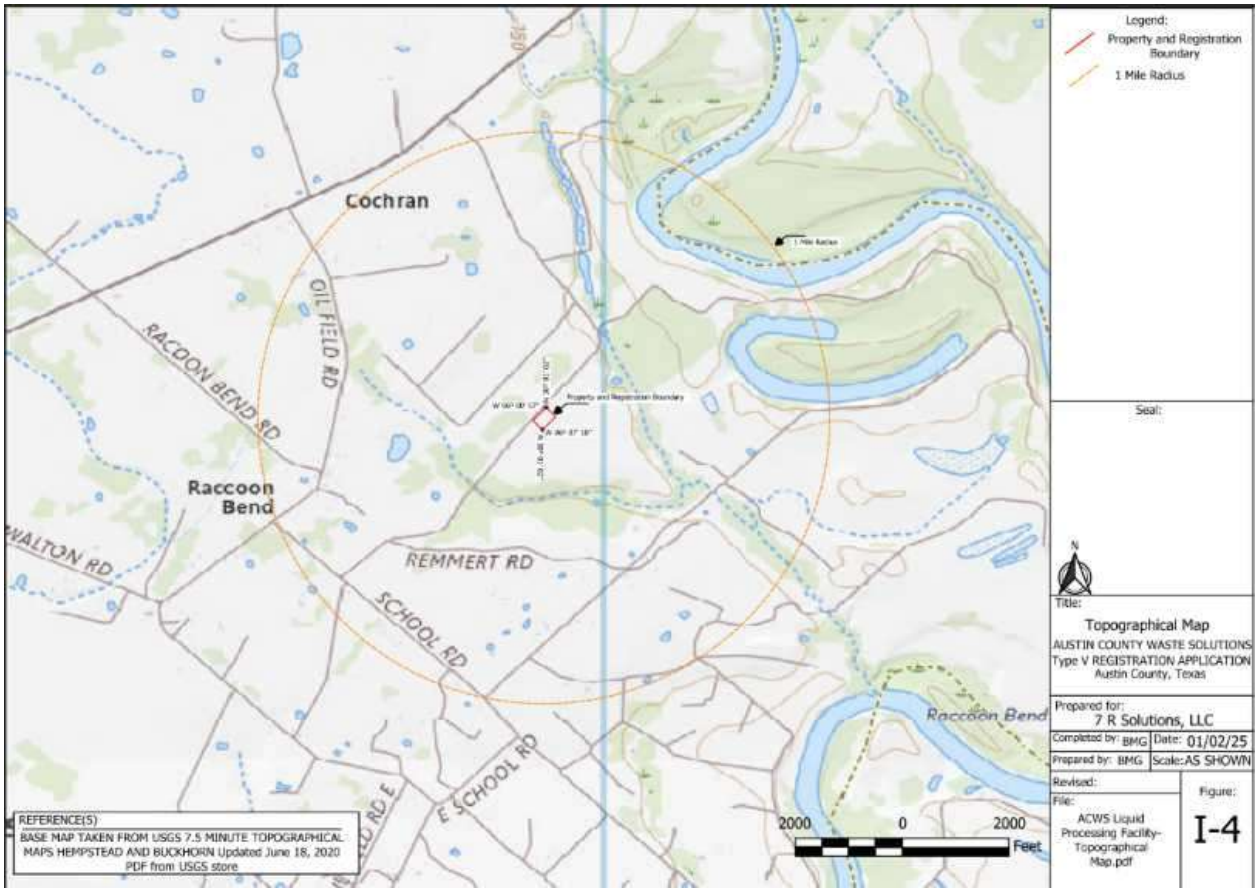
Faith's evaluation was performed in general accordance with accepted procedures in conducting habitat and aquatic resource evaluations. Faith makes no representation for a period of time over which this evaluation will remain valid. Faith's conclusion reflects our professional opinion based on conditions present at the time of the evaluation. Discrepancies may arise between current and future evaluations within the study area due to changes in land use, vegetation, and/or hydrology. No warranties, implied or expressed, are made. The opinions of Faith's Professional consulting team have not been reviewed or concurred with by regulatory agencies, including the USACE, for compliance with state and Federal regulations.

Signature

Faith Chase
Wildlife Biologist

Appendices

Appendix A - Project Maps


Legend:
Property and Registration Boundary
1 Mile Radius
Seal:
N
Title:
Topographical Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas
Prepared for:
7 R Solutions, LLC
Completed by: BMG
Date: 01/02/25
Prepared by: BMG
Scale: AS SHOWN
Revised:
File:
ACWS Liquid Processing Facility-Topographical Map.pdf
Figure:
I-4
Cochran
Raccoon Bend
OIL FIELD RD
RACCOON BEND RD
WALTON RD
REMMERT RD
SCHOOL RD
E SCHOOL RD
Raccoon Bend
150
1 Mile Radius
Property and Registration Boundary
2000
0
2000
Feet
REFERENCE(S)
BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHICAL MAPS HEMPSTEAD AND BUCKHORN Updated June 18, 2020 PDF from USGS store

Appendix B - Photolog

Appendix C - Datasheets

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 7 R Solutions, LLC City/County: Bellville, Texas Sampling Date: 02/06/2025

Applicant/Owner: Blake Giese State: TX Sampling Point: _____

Investigator(s): Faith Chase Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Pasture Local relief (concave, convex, none): None Slope (%): 2-8

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: KeD NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✔	**Is the Sampled Area within a Wetland?** **Yes** _____ **No** ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:
Pasture is open. It is currently and has historically been used for cattle grazing and hay production. There are no signs of wetlands.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Sphagnum moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes _____	No ✔	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No ✔	Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: _____

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Sapling Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Herb Stratum (Plot size: _____)			
1. Lamium amplexicaule	20	No	UPL
2. Cyodon dactylon (Dead Matter)	40	Yes	FACU
3. Nassella leuctricha	25	Yes	UPL
4. Vicia villosa	5	No	UPL
5. Stellaria media	5	No	FACU
6. Torilis arvensis	5	No	UPL
7.			
8.			
9.			
10.			
11.			
	100 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Woody Vine Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	45	x 4 =	180
UPL species	55	x 5 =	275
Column Totals:	100 (A)		455 (B)

Prevalence Index = B/A = 4.55

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Five Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ☐ No ☑

Remarks: (If observed, list morphological adaptations below).

SOIL

Sampling Point: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
1-5	10 YR 5/4	40					loamy	
5 - 12	10 YR 6/4	60					sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Organic Bodies (A6) **(LRR P, T, U)**
___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
___ Muck Presence (A8) **(LRR U)**
___ 1 cm Muck (A9) **(LRR P, T)**
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Coast Prairie Redox (A16) **(MLRA 150A)**
___ Sandy Mucky Mineral (S1) **(LRR O, S)**
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7) **(LRR P, S, T, U)**
___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
___ Thin Dark Surface (S9) **(LRR S, T, U)**
___ Loamy Mucky Mineral (F1) **(LRR O)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) **(LRR U)**
___ Depleted Ochric (F11) **(MLRA 151)**
___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
___ Umbric Surface (F13) **(LRR P, T, U)**
___ Delta Ochric (F17) **(MLRA 151)**
___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
___ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:

___ 1 cm Muck (A9) **(LRR O)**
___ 2 cm Muck (A10) **(LRR S)**
___ Reduced Vertic (F18) **(outside MLRA 150A,B)**
___ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
___ Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
___ Red Parent Material (TF2)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ☐ **No** ☑

Remarks:

ATTACHMENT IID-2

US Army Corps of Engineers Correspondence

N/A Not Required

ATTACHMENT IIE

Endangered or Threatened Species

ATTACHMENT IIE-1

Federally Protected Species Habitat Assessment

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Federally Protected Species Habitat Assessment

7 R Solutions, LLC
Type V Registration Application

Submitted to:
U.S. Fish and Wildlife Service
Texas Coastal Ecological Services Field Office
Houston Field Office
17629 El Camino Real #211
Houston, Texas 77058

Submitted by:
Faith Chase, Wildlife Biologist
22 E Chatham St
Bellville, TX 77418

March 2025

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1.0 Introduction

Faith Chase prepared this Federally Protected Species Habitat Assessment Report on behalf of 7 R Solutions, LLC for a Type V Liquid Waste Processing Facility located in Austin County, Texas. She performed an environmental resource analysis for the Project to determine the likelihood of impacts to federally listed threatened and endangered (T&E) species, avian species protected by the Migratory Bird Treaty Act (MBTA) and Bald and Golden Eagle Protection Act (BGEPA) from continued operations and additional construction within the Project Area.

2.0 Methodology

Faith performed an environmental resource analysis of the entire Project. A Survey Area totaling approximately 1 acre was created to identify all resources that may be impacted by the project. The environmental resources analysis consisted of two components: (1) an initial desktop review of the survey area and (2) a field survey conducted within the survey area to observe and record existing conditions. A summary of the methods is presented in the following sections

2.1 Initial Desktop Review

Prior to conducting field surveys, Faith reviewed publicly available information to gain an understanding of the survey area, including layout, land cover, habitat types, and current and historic land use. These features were assessed as a preliminary determination of the presence of existing or potentially occurring agency regulated or protected environmental resources within the survey area. Faith reviewed information from the following sources:

- USGS Topographic Maps
- HIstoric and Current Aerial Photographs
- NRCS Soil Survey Database
- United States Fish and Wildlife Service (USFWS) Information for Planning and Consulting online mapping system

2.1.1 USGS Topographic Survey Maps and Aerial Photography

Faith reviewed the USGS Topographic Map prior to conducting field surveys. The topographic map shows the project area as historically being used for cattle grazing and as a hay field. Historic and current aerial imagery shows that is also the current land use.

2.1.2 NRCS Soils Data

Review of the NRCS Soil Survey data showed a total of one soil series are located within the survey area which are displayed below in Table 1.

Table 1: NRCS Soils Located within the Survey Area

Soil Series Name	**Slope**	**NRCS Drainage Rating**	**NRCS Hydrology Rating**
Kenney loamy fine sand	2-8%	Well Drained	Not Hydric

2.1.3 USFWS IPaC

The USFWS IPaC identified a total of ten federally listed T&E species as potentially occurring within the Survey Area. The Little Blue Heron (*Egretta caerulea)* and Prairie Loggerhead Shrike *(Lanius undovicianus excubitorides)* only require evaluation for wind energy related projects within their migratory route and are not discussed within this report. A habitat assessment was performed for the Project for the remaining eight species.

2.2 Field Surveys

Faith conducted field surveys to evaluate if the Survey Area contained suitable habitat for federally listed T&E species. The field survey consisted of the identification of biological resources (federally listed threatened and endangered species occurrences, potentially suitable habitat, and any designated critical habitat). Photographs of the resources identified within the Survey Area are provided in Appendix B.

3.0 Field Survey Results

3.1 Vegetation

On the Project site, vegetation included: Bermuda grass(*Cynodon dactylon*), Henbit (*Lamium amplexicaule)*, Spreading Hedge Parsley (*Torilis arvensis*), Chickweed (*Stellaria media*), Hairy Vetch (*Vicia villosa*), Texas Wintergrass (*Nassella leuctricha*). Additional information regarding vegetation observed is included within the datasheets provided as Appendix C

3.2 Historical Land Use and Modifications

The site has historically been used for cattle grazing and hay production, as evident by aerial imagery.

3.3 Federally LIsted T&E Species

Faith performed a habitat evaluation for eight of the ten species identified by the USFWS IPaC, which is provided as Appendix D. Table 2 below lists the species, their federal status, habitat requirements, and effect determinations.

Table 2: Federally Listed Specie for the Survey Area

Species	Federal Status	Habitat Requirements	Effect Determination
n Toad *us houstonensis*	Endangered	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Effect
r's greater chicken *uchus cupido attwateri*	Endangered	This species requires bunch grasses and small shrubbery and is found along the coastal plains. No suitable habitat is present within the area	No Effect
Plover *rius melodus*	Threatened	This species requires coastline. No suitable habitat is present within the area	No Effect
d knot *rufa*	Threatened	This species requires coastline. No suitable habitat is present within the area	No Effect
ng Crane *nericana*	Endangered	This species requires ponds or ephemeral wetlands. No suitable habitat is present within the area	No Effect
ed Bat *otis subflavus*	Rare	This species requires caves. No suitable habitat is present within the area	No Effect
awnsfoot *a macrodon*	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Effect
ry Monach Butterfly	Rare	Habitat description unavailable	Unable to anticipate potential impact

plexippus plexippus			

3.4 MBTA and BGEPA

NO tress containing suitable nesting habitat for MBTA protected species were observed within the Survey Area. Additionally, no trees were observed within or adjacent to the Survey Area that would provide suitable nesting habitat for raptor species, bald eagles, or golden eagles. No impacts are anticipated wot avian species from the project.

4.0 Conclusion

Faith's determined that construction of the Project will result in *no effect* to any Federally listed T&E species identified as potentially occurring within the Survey Area by the USFWS IPaC. No trees were observed within the Survey Area to provide suitable nesting habitat to MBTA protected species. Additionally, no suitable nesting trees were observed adjacent to the Survey Area that would provide suitable nesting habitat to BGEPA protected species.

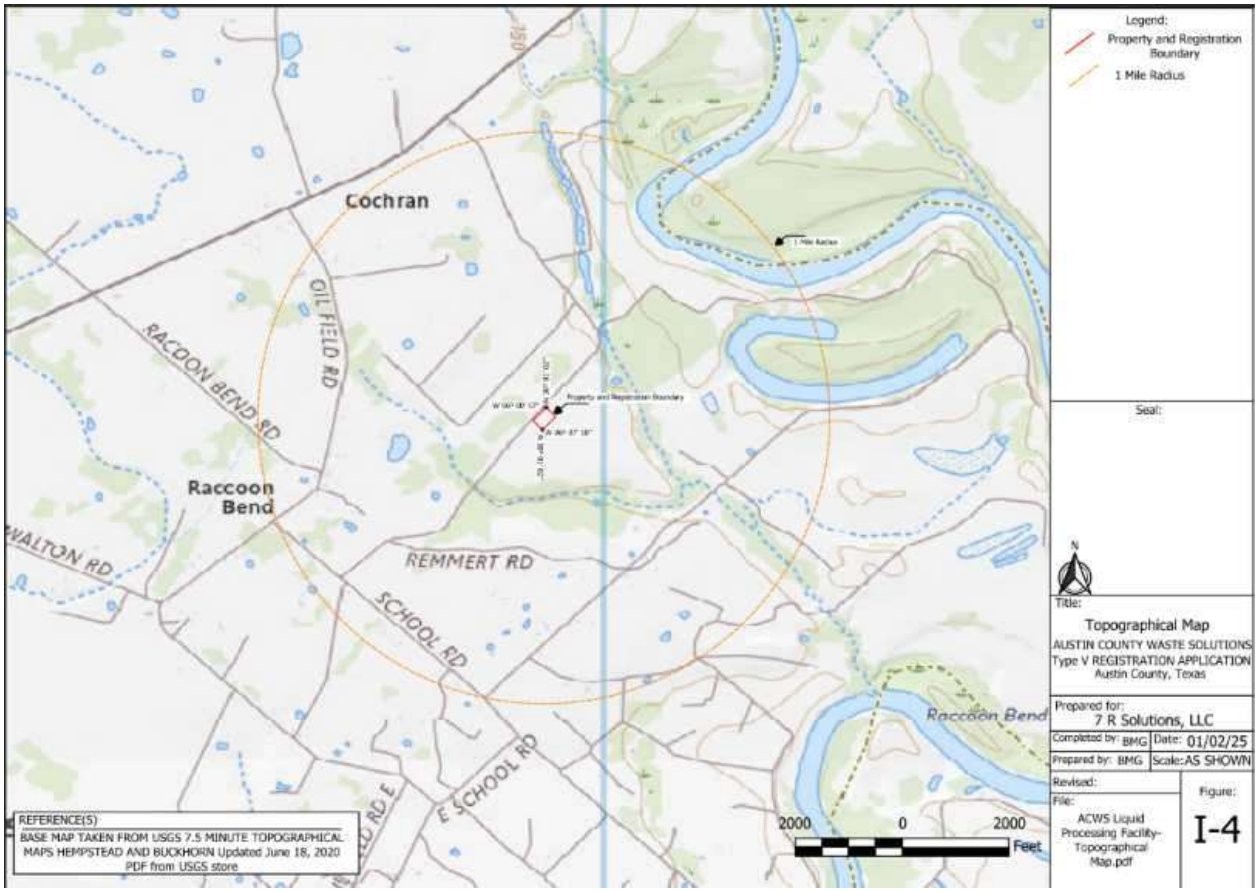
Faith's conclusion reflects her professional opinion based on conditions present at the time of evaluation. Discrepancies may arise between current and future evaluation of wetlands at the project due to changes in land use, vegetation, and/or hydrology. No warranties, implied or expressed, are made.

Signature

Faith Chase
Wildlife Biologist

Appendices

Appendix A - Project Maps


Legend:
Property and Registration Boundary
1 Mile Radius
Seal:
N
Title:
Topographical Map
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Type V REGISTRATION APPLICATION
Austin County, Texas
Prepared for:
7 R Solutions, LLC
Completed by: BMG
Date: 01/02/25
Prepared by: BMG
Scale: AS SHOWN
Revised:
File:
ACWS Liquid Processing Facility-Topographical Map.pdf
Figure:
I-4
Cochran
Raccoon Bend
OIL FIELD RD
RACCOON BEND RD
WALTON RD
REMMERT RD
SCHOOL RD
E SCHOOL RD
Raccoon Bend
150
1 Mile Radius
Property and Registration Boundary
2000
0
2000
Feet
REFERENCE(S)
BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHICAL MAPS HEMPSTEAD AND BUCKHORN Updated June 18, 2020 PDF from USGS store

Appendix B - Photolog

Appendix C - Datasheets

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 7 R Solutions, LLC City/County: Bellville, Texas Sampling Date: 02/06/2025

Applicant/Owner: Blake Giese State: TX Sampling Point: _____

Investigator(s): Faith Chase Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Pasture Local relief (concave, convex, none): None Slope (%): 2-8

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: KeD NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✔	**Is the Sampled Area within a Wetland?** **Yes** _____ **No** ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:
Pasture is open. It is currently and has historically been used for cattle grazing and hay production. There are no signs of wetlands.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Sphagnum moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes _____	No ✔	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No ✔	Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Five Strata) – Use scientific names of plants. Sampling Point: _____

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Sapling Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Herb Stratum (Plot size: _____)			
1. Lamium amplexicaule	20	No	UPL
2. Cyodon dactylon (Dead Matter)	40	Yes	FACU
3. Nassella leuctricha	25	Yes	UPL
4. Vicia villosa	5	No	UPL
5. Stellaria media	5	No	FACU
6. Torilis arvensis	5	No	UPL
7.			
8.			
9.			
10.			
11.			
	100 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Woody Vine Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	45	x 4 =	180
UPL species	55	x 5 =	275
Column Totals:	100 (A)		455 (B)

Prevalence Index = B/A = 4.55

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Five Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ☐ No ☑

Remarks: (If observed, list morphological adaptations below).

SOIL

Sampling Point: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
1-5	10 YR 5/4	40					loamy	
5 - 12	10 YR 6/4	60					sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Organic Bodies (A6) **(LRR P, T, U)**
___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
___ Muck Presence (A8) **(LRR U)**
___ 1 cm Muck (A9) **(LRR P, T)**
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Coast Prairie Redox (A16) **(MLRA 150A)**
___ Sandy Mucky Mineral (S1) **(LRR O, S)**
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7) **(LRR P, S, T, U)**
___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
___ Thin Dark Surface (S9) **(LRR S, T, U)**
___ Loamy Mucky Mineral (F1) **(LRR O)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) **(LRR U)**
___ Depleted Ochric (F11) **(MLRA 151)**
___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
___ Umbric Surface (F13) **(LRR P, T, U)**
___ Delta Ochric (F17) **(MLRA 151)**
___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
___ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:

___ 1 cm Muck (A9) **(LRR O)**
___ 2 cm Muck (A10) **(LRR S)**
___ Reduced Vertic (F18) **(outside MLRA 150A,B)**
___ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
___ Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
___ Red Parent Material (TF2)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ☐ **No** ☑

Remarks:

ATTACHMENT IIE-2

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State Listed Species Habitat Assessment

7 R Solutions, LLC
Type V Liquid Waste Processing

Submitted to:
Texas Parks and Wildlife Department
Wildlife Division
Wildlife Habitat Assessment Program
4200 Smith School Road
Austin, TX 77032

Submitted by:
Faith Chase
22 E Chatham St
Bellville, TX 77418

March 2025

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1.0 Introduction

Faith Chase prepared this State Listed Species Habitat Assessment Report on behalf of Austin County Waste Solutions for a Type 5 Liquid Waste Processing Facility located in Austin County, Texas. She performed a state listed species habitat assessment for the Project to ensure compliance with all federal regulations and to assist with the evaluation of impact that will result from continued operations and additional construction within the Project Area.

2.0 Methodology

Faith performed an environmental resource analysis of the entire Project. A Survey Area totaling approximately 1 acre was created to identify potential resources that may be impacted by the project. The environmental resources analysis consisted of two components: (1) an initial desktop review of the survey area and (2) a field survey conducted within the survey area to observe and record existing conditions. A summary of the methods is presented in the following sections

2.1 Initial Desktop Review

Prior to conducting field surveys, Faith reviewed publicly available information to gain an understanding of the survey area, including layout, land cover, habitat types, and current and historic land use. These features were assessed as a preliminary determination of the presence of existing or potentially occurring agency regulated or protected environmental resources within the survey area. Faith reviewed information from the following sources:

- USGS Topographic Maps
- HIstoric and Current Aerial Photographs
- NRCS Soil Survey Database
- TPWD Rare, Threatened, and Endangered Species List for Austin County
- TPWD Texas Natural Diversity Database Element Occurrence Data set for Austin County
- TPWD and Texas Partners in Flight Migratory Bird Ecoregion Checklist

2.1.1 USGS Topographic Survey Maps and Aerial Photography

Faith reviewed the USGS Topographic Map prior to conducting field surveys. The topographic map shows the project area as historically being used for cattle grazing and as a hay field. Historic and current aerial imagery shows that is also the current land use.

2.1.2 NRCS Soils

Review of the NRCS Soil Survey data showed a total of one soil series are located within the survey area which are displayed below in Table 1.

Table 1: NRCS Soils Located within the Survey Area

Soil Series Name	Slope	NRCS Drainage Rating	NRCS Hydrology Rating
Kenney loamy fine Sand	2-8%	Well Drained	Not Hydric

2.1.3 State Listed Rare, Threatened, and Endangered Species Surveys

Faith reviewed the TPWD annotated county list of rare, threatened and endangered species known to potentially occur within Austin County, Texas (Appendix). The review identified 77 species as potentially occurring within the County. Table 2 in Section 3.2 presents each of these species along with their general habitat requirement and anticipated project impacts.

2.2 Rare, Threatened and Endangered Species Surveys

The environmental resource surveys consisted of the identification of all biological resources (state listed threatened and endangered species occurrences, and potentially suitable habitat). All environmental resources identified within the survey area was delineated by surveyors. Photographs of the resources identified within the survey area are provided in Appendix B.

Faith reviewed the survey area for protected species suitable habitats listed in the TPWD state listed rare, threatened and endangered species list for Austin County. Surveys were conducted at several random points to document habitat characteristics, species observations, and indication of the presence of listed species. Observations were recorded and photographs were taken of the general habitat characteristics.

3.0 Field Survey Results

Faith Conducted the field surveys within the survey area as shown in the mapping exhibits provided in appendix A.

3.1 Vegetation

On the Project site, vegetation included: Bermuda grass(*Cynodon dactylon*), Henbit (*Lamium amplexicaule)*, Spreading Hedge Parsley (*Torilis arvensis*), Chickweed (*Stellaria media*), Hairy Vetch (*Vicia villosa*), Texas Wintergrass (*Nassella leuctricha*).

3.2 State List T&E Species

The TPWD list of rare threatened and endangered species for Austin County identified (30) state listed species that could potentially occur within the survey area. Table 2 below presents these species, their associated habitats and anticipated project impacts. The TPWD list of rare threatened, and endangered species for Austin County is provided in Appendix E.

Table 2: State Listed Rare, Threatened and Endangered Species for Austin County

s Name	State Status	Habitat Requirements	Anticipated Project Impacts
Tiger Salamander *oma tigrinum*	Rare	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated
n Toad *us houstonensis*	Endangered	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated
n Crawfish Frog *tes areolatus areolatus*	Rare	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated
r's Chorus frog *cris streckeri*	Rare	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated

ouse's Toad *us woohousii*	Rare	The species requires access to freshwater habitats such as a pond or bottomland wetlands, or upland ephemeral pools. No suitable habitat is present within the area	No Impacts Anticipated
r's greater chicken *uchus cupido attwateri*	Endangered	This species requires bunch grasses and small shrubbery and is found along the coastal plains. No suitable habitat is present within the area	No Impacts Anticipated
gle *tus leucocephalus*	Rare	This species requires rivers or large lakes with tall trees nearby for nesting. No suitable habitat is present within the area	No Impacts Anticipated
wallow *riparia*	Rare	This species requires access to a body of water and usually nests in large colonies on cliffs. No suitable habitat is present within the area	No Impacts Anticipated
ail *us Jamaicensis*	Threatened	This species requires access to a body of water or wetlands. No suitable habitat is present within the area	No Impacts Anticipated
s Blackbird *us Cyanocephalus*	Rare	This species could potentially utilize the pasture during winter migration. No indication of the species was present.	No Impacts Anticipated
Pelican *nus occidentalis*	Rare	This bird is coastal and found near shorelines. No suitable habitat is present within the area	No Impacts Anticipated
ut-collared longspur *us ornatus*	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
n Grackle *us quicula*	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
n Nighthawk *lies minor*	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
's gull *haeus pipixan*	Rare	This species requires coastlines. No suitable habitat is present within the area	No Impacts Anticipated

w's Sparrow *yx henslowii*	Rare	This species requires bare ground. No suitable habitat is present within the area	No Impacts Anticipated
least tern *a antillarum athatlassos*	Endangered	This species requires coastline or rivers. No suitable habitat is present within the area	No Impacts Anticipated
ern *a antillarum*	Rare	This species requires coastlines or rivers. No suitable habitat is present within the area	No Impacts Anticipated
head Shrike *udovicianus*	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
Duck *ulvigual*	Rare	This species requires coastline or rivers. No suitable habitat is present within the area	No Impacts Anticipated
n Bobwhite *virginianus*	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated

s Name	State Status	Habitat Requirements	Anticipated Project Impac
Plover *rius melodus*	Threatened	This species requires coastline. No suitable habitat is present within the area	No Impacts Anticipated
d knot *rufa*	Threatened	This species requires coastline. No suitable habitat is present within the area	No Impacts Anticipated
ing *alba*	Rare	This species requires coastline. No suitable habitat is present within the area	No Impacts Anticipated
e's pipit *spragueii*	Rare	This species could potentially utilize the pasture during migration. No indication of the species was present.	No Impacts Anticipated
-tailed kite *es forficatus*	Threatened	This species could potentially utilize the pasture during migration. No indication of the species was present.	No Impacts Anticipated
n Burrowing Owl *cunicularia*	Rare	This species could potentially utilize the pasture. No indication of the species was present.	No Impacts Anticipated
aced ibis *s chihi*	Threatened	This species requires low lying wetlands near the coast.	No Impacts Anticipated
ailed hawk	Threatened	This species requires mixed prairie. No	No Impacts Anticipated

lbicaudatus		indication of the species was present.	
ng Crane *mericana*	Endangered	This species requires ponds or ephemeral wetlands. No suitable habitat is present within the area	No Impacts Anticipated
emipalmata	Rare	This species requires coastlines, wetlands or rivers. No suitable habitat is present within the area	No Impacts Anticipated
s Warbler *na pusilla*	Rare	This species requires riparian areas. No suitable habitat is present within the area	No Impacts Anticipated
tork *a americana*	Threatened	This species requires wetlands or flooded prairies. No suitable habitat is present within the area	No Impacts Anticipated
Rail *cops noveboracensis*	Rare	This species may utilize the pasture. No indication of the species was present.	No Impacts Anticipated
Billed Cuckoo *us americanus*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
ot shiner *s atrocaudalis*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
ppi silvery minnow *athus nuchalis*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
hub *bopsis storeriana*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
nd Shiner *s shumardi*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
Sucker *ma melanops*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
an Bumblebee *s pensylvanicus*	Rare	Habitat description unavailable	Unable to anticipate poter impact
ry Monach Butterfly *plexippus plexippus*	Rare	Habitat description unavailable	Unable to anticipate poter impact
epted common name *arus coushatta*	Rare	Habitat description unavailable	Unable to anticipate poter impact
e-tailed Bat *mops macrotis*	Rare	This species requires canyons for roosting. No suitable habitat is present within the area	No Impacts Anticipated
Spotted Skunk *le putorius*	Rare	This species may utilize the pasture. No indication of the species was present.	No Impacts Anticipated

Bat *s cinereus*	Rare	This species may utilize the adjacent brush and trees. No indication of the species was present.	No Impacts Anticipated
n Lion *oncolor*	Rare	This species may utilize the adjacent brush. No indication of the species was present.	No Impacts Anticipated
Spotted Skunk *le interrupta*	Rare	This species may utilize the pasture and adjacent brush. No indication of the species was present.	No Impacts Anticipated
le Bat *s seminolus*	Rare	This species requires pine trees. No suitable habitat is present within the area	No Impacts Anticipated
ed Bat *otis subflavus*	Rare	This species requires caves. No suitable habitat is present within the area	No Impacts Anticipated
Heelsplitter *us streckersoni*	Threatened	This species requires a body of water.No suitable habitat is present within the area	No Impacts Anticipated
 ma parvum	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
af *al quaudrula*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
ack *ias pustulosa*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
ip *ia verrucosa*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
o Peralymussel *ias tampicoensis*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
l Pondhorn *rus declivis*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
awnsfoot *a macrodon*	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
an Alligator *r mississippiensis*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
n garter snake *ophis sirtalis*	Rare	This species must be near a body of water. No suitable habitat is present within the area	No Impacts Anticipated
box turtle *ne carolina*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
Skink *lon septentrionalis*	Rare	This species may utilize the pasture. No indication of the species was present.	No Impacts Anticipated

glass lizard *urus attenuatus*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
softshell *e mutica*	Rare	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
orned lizard *soma cornutum*	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
nap turtle *mys versa*	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
n Box Turtle *ne ornata*	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
n Chicken Turtle *elys reticularia miaria*	Threatened	This species requires a body of water. No suitable habitat is present within the area	No Impacts Anticipated
af Evening Primrose *era cordata*	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
brock's sedge *s grayoides*	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
d indigobush *a paniculata*	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Meadow-rue *um texanum*	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
nkroot *texana*	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Sandmint *lon ciliatus*	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
eymeria *ia texana*	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
Sunnybell *olirion wrightii*	Threatened	No suitable habitat is present within the area	No Impacts Anticipated
auschia *a texana*	Threatened	No suitable habitat is present within the area.	No Impacts Anticipated

3.3 HIstorical Land Use and Modifications

This site has historically been used as cattle pasture and hay production, as seen in aerial imagery.

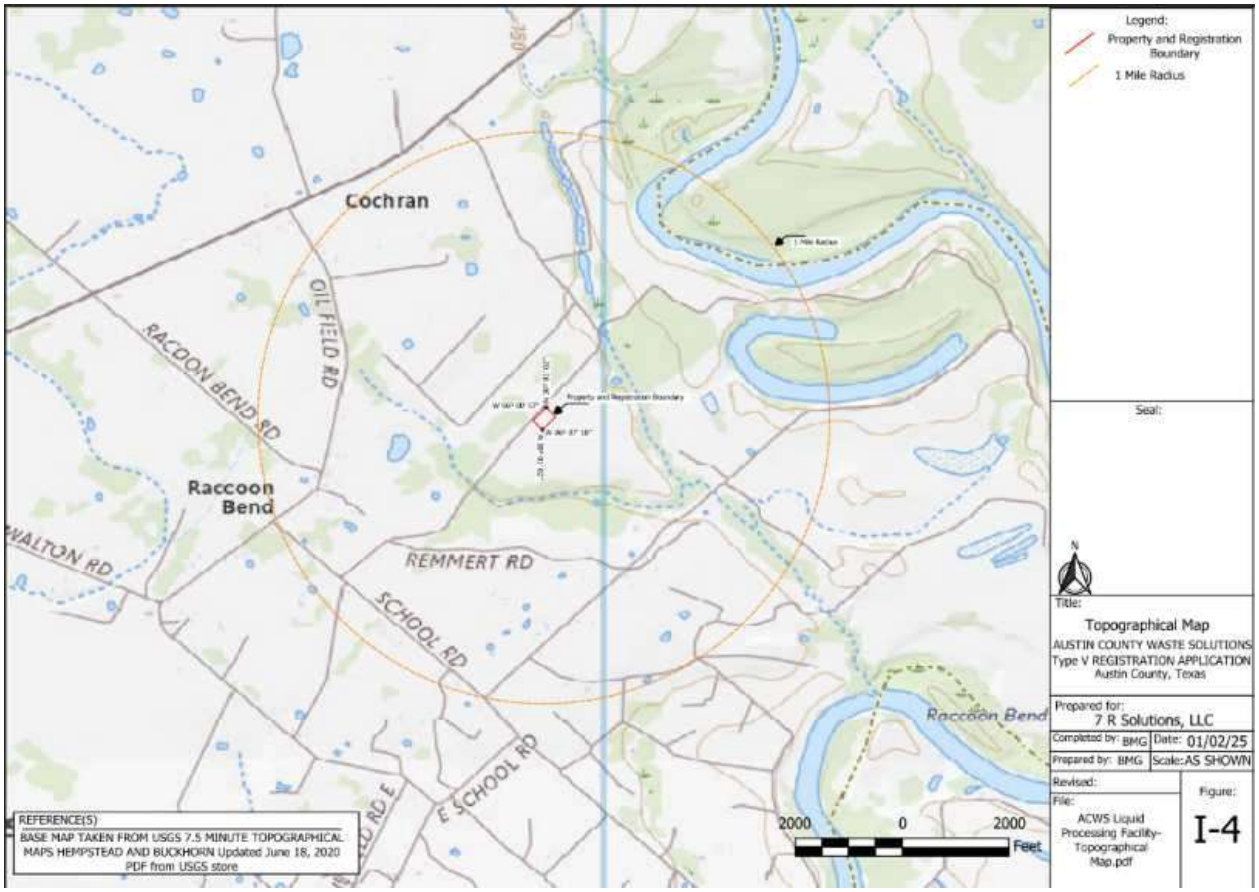
4.0 Conclusion

Faith's evaluation of TPWD's state listed rare, threatened and endangered species identified a total of 77 species listed for Austin County. She determined that based off the current land use, suitable habitat is present for 17 of the state listed species within the Survey Area. No suitable habitat was identified within 1-mile of the Project. However, no suitable habitat is present within the Survey Area for the 56 species. Based on the disturbance of the Survey Area, significant impacts on state listed Rare, threatened, and endangered species from the project are not anticipated.

Faith's conclusion reflects her professional opinion based on conditions present at the time of evaluation, discrepancies may arise between current and future evaluation of wetlands at the project due to changes in land use, vegetation, and/or hydrology. No warranties, implied or expressed, are made.

Appendices

Appendix A - Project Maps


Legend:
Property and Registration Boundary
1 Mile Radius
Cochran
OIL FIELD RD
RACCOON BEND RD
Raccoon Bend
WALTON RD
REMMERT RD
SCHOOL RD
E SCHOOL RD
Raccoon Bend
1 Mile Radius
Property and Registration Boundary
2000
0
2000
Feet
REFERENCE(S)
BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHICAL MAPS HEMPSTEAD AND BUCKHORN Updated June 18, 2020 PDF from USGS store
Seal:
N
Title:
Topographical Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas
Prepared for:
7 R Solutions, LLC
Completed by: BMG
Date: 01/02/25
Prepared by: BMG
Scale: AS SHOWN
Revised:
File:
ACWS Liquid Processing Facility-Topographical Map.pdf
Figure:
I-4

Appendix B - Photolog

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 7 R Solutions, LLC City/County: Bellville, Texas Sampling Date: 02/06/2025

Applicant/Owner: Blake Giese State: TX Sampling Point: _____

Investigator(s): Faith Chase Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Pasture Local relief (concave, convex, none): None Slope (%): 2-8

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: KeD NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✔	**Is the Sampled Area within a Wetland?** **Yes** _____ **No** ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:
Pasture is open. It is currently and has historically been used for cattle grazing and hay production. There are no signs of wetlands.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Sphagnum moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes _____	No ✔	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No ✔	Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: _____

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Sapling Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Herb Stratum (Plot size: _____)			
1. Lamium amplexicaule	20	No	UPL
2. Cyodon dactylon (Dead Matter)	40	Yes	FACU
3. Nassella leuctricha	25	Yes	UPL
4. Vicia villosa	5	No	UPL
5. Stellaria media	5	No	FACU
6. Torilis arvensis	5	No	UPL
7.			
8.			
9.			
10.			
11.			
	100 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Woody Vine Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		

50% of total cover: _____ 20% of total cover: _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	0	x 1 = 0
FACW species	0	x 2 = 0
FAC species	0	x 3 = 0
FACU species	45	x 4 = 180
UPL species	55	x 5 = 275
Column Totals:	100 (A)	455 (B)

Prevalence Index = B/A = 4.55

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Five Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ☐ No ☑

Remarks: (If observed, list morphological adaptations below).

SOIL

Sampling Point: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
1-5	10 YR 5/4	40					loamy	
5 - 12	10 YR 6/4	60					sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Organic Bodies (A6) **(LRR P, T, U)**
___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
___ Muck Presence (A8) **(LRR U)**
___ 1 cm Muck (A9) **(LRR P, T)**
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Coast Prairie Redox (A16) **(MLRA 150A)**
___ Sandy Mucky Mineral (S1) **(LRR O, S)**
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7) **(LRR P, S, T, U)**
___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
___ Thin Dark Surface (S9) **(LRR S, T, U)**
___ Loamy Mucky Mineral (F1) **(LRR O)**
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) **(LRR U)**
___ Depleted Ochric (F11) **(MLRA 151)**
___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
___ Umbric Surface (F13) **(LRR P, T, U)**
___ Delta Ochric (F17) **(MLRA 151)**
___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
___ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:

___ 1 cm Muck (A9) **(LRR O)**
___ 2 cm Muck (A10) **(LRR S)**
___ Reduced Vertic (F18) **(outside MLRA 150A,B)**
___ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
___ Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
___ Red Parent Material (TF2)
___ Very Shallow Dark Surface (TF12)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ☐ **No** ☑

Remarks:

Last Update: 1/15/2025

AUSTIN COUNTY

AMPHIBIANS

eastern tiger salamander *Ambystoma tigrinum*

Terrestrial adults generally occur under cover objects or in burrows surrounding a variety of lentic freshwater habitats, such as ponds, lakes, bottomland wetlands, or upland ephemeral pools. The specific terrestrial habitats are also varied and the occurrence of this species seems to be more closely associated with sandy, loamy or other soils which have easy burrowing properties, rather than any particular ecological system type. Requires fishless breeding pools for successful reproduction.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

Houston toad *Anaxyrus houstonensis*

Terrestrial and aquatic: Primary terrestrial habitat is forests with deep sandy soils. Juveniles and adults are presumed to move through areas of less suitable soils using riparian corridors. Aquatic habitats can include any water body from a tire rut to a large lake.

Federal Status: E	State Status: E	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

southern crawfish frog *Lithobates areolatus areolatus*

Terrestrial and aquatic: The terrestial habitat is primarily grassland and can vary from pasture to intact prairie; it can also include small prairies in the middle of large forested areas. Aquatic habitat is any body of water but preferred habitat is ephemeral wetlands.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4T4	State Rank: S3

Strecker's chorus frog *Pseudacris streckeri*

Terrestrial and aquatic: Wooded floodplains and flats, prairies, cultivated fields and marshes. Likes sandy substrates.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

Woodhouse's toad *Anaxyrus woodhousii*

Terrestrial and aquatic: A wide variety of terrestrial habitats are used by this species, including forests, grasslands, and barrier island sand dunes. Aquatic habitats are equally varied.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

BIRDS

Attwater's greater prairie-chicken *Tympanuchus cupido attwateri*

Open prairies of mostly thick grass one to three feet tall; sandhill country with bunch grass, sage, and shinnery oak. From near sea level to 200 feet along coastal plain on upper two-thirds of Texas coast; males form communal display flocks during late winter-early spring; booming grounds important; breeding February-July

Federal Status: E	State Status: E	SGCN: Y
Endemic: N	Global Rank: G4T1	State Rank: S1

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AUSTIN COUNTY

BIRDS

bald eagle *Haliaeetus leucocephalus*

Found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds

Federal Status:	State Status:	SGCN: N
Endemic: N	Global Rank: G5	State Rank: S3B,S3N

Bank Swallow *Riparia riparia*

Bank Swallows live in low areas along rivers, streams, ocean coasts, and reservoirs. Their territories usually include vertical cliffs or banks where they nest in colonies of 10 to 2,000 nests. Though in the past Bank Swallows were most commonly found around natural bluffs or eroding streamside banks, they now often nest in human-made sites, such as sand and gravel quarries or road cuts. They forage in open areas and avoid places with tree cover.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2B,S4N

black rail *Laterallus jamaicensis*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Salt, brackish, and freshwater marshes, pond borders, wet meadows, and grassy swamps; nests in or along edge of marsh, sometimes on damp ground, but usually on mat of previous years dead grasses; nest usually hidden in marsh grass or at base of Salicornia

Federal Status: T	State Status: T	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S2

Brewer's Blackbird *Euphagus cyanocephalus*

Shrubby and bushy areas (especially near water), riparian woodland, aspen parklands, cultivated lands, marshes, and around human habitation; in migration and winter also in pastures and fields (AOU 1983).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

Brown Pelican *Pelecanus occidentalis*

Largely coastal and near shore areas, where it roosts and nests on islands and spoil banks. Feeds in lagunas and shallow seaward waters.

Federal Status:	State Status:	SGCN: N
Endemic: N	Global Rank: G4	State Rank: S3B

chestnut-collared longspur *Calcarius ornatus*

Occurs in open shortgrass settings especially in patches with some bare ground. Also occurs in grain sorghum fields and Conservation Reserve Program lands

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

Common Grackle *Quiscalus quiscula*

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AUSTIN COUNTY

BIRDS

Common Grackles do well in human landscapes, using scattered trees for nesting and open ground for foraging. Typical natural habitats include open woodland, forest edge, grassland, meadows, swamps, marshes, and palmetto hammocks. They are also very common near agricultural fields and feedlots, suburbs, city parks, cemeteries, pine plantations, and hedgerows. Unbroken tracts of forest are the only places where you are unlikely to find Common Grackles.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5B

Common Nighthawk *Chordeiles minor*

Common Nighthawks nest in both rural and urban habitats including coastal sand dunes and beaches, logged forest, recently burned forest, woodland clearings, prairies, plains, sagebrush, grasslands, open forests, and rock outcrops. They also nest on flat gravel rooftops, though less often as gravel roofs are being replaced by smooth, rubberized roofs that provide an unsuitable surface.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4B

Franklin's gull *Leucophaeus pipixcan*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. This species is only a spring and fall migrant throughout Texas. It does not breed in or near Texas. Winter records are unusual consisting of one or a few individuals at a given site (especially along the Gulf coastline). During migration, these gulls fly during daylight hours but often come down to wetlands, lake shore, or islands to roost for the night.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2N

Henslow's Sparrow *Centronyx henslowii*

Wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S2S3N,SXB

interior least tern *Sternula antillarum athalassos*

Sand beaches, flats, bays, inlets, lagoons, islands. Subspecies is listed only when inland (more than 50 miles from a coastline); nests along sand and gravel bars within braided streams, rivers; also know to nest on man-made structures (inland beaches, wastewater treatment plants, gravel mines, etc); eats small fish and crustaceans, when breeding forages within a few hundred feet of colony

Federal Status:	State Status: E	SGCN: N
Endemic: N	Global Rank: G4T3Q	State Rank: S1B

Least Tern *Sternula antillarum*

Sand beaches, flats, bays, inlets, lagoons, islands, river sandbars and flat gravel rooftops in urban areas.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S2B

Loggerhead Shrike *Lanius ludovicianus*

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AUSTIN COUNTY

BIRDS

Loggerhead Shrikes inhabit open country with short vegetation and well-spaced shrubs or low trees, particularly those with spines or thorns. They frequent agricultural fields, pastures, old orchards, riparian areas, desert scrublands, savannas, prairies, golf courses, and cemeteries. Loggerhead Shrikes are often seen along mowed roadsides with access to fence lines and utility poles.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S4B

Mottled Duck *Anas fulvigula*

Estuaries, ponds, lakes, secondary bays.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S4B

Northern Bobwhite *Colinus virginianus*

Inhabits a wide variety of vegetation types, particularly early successional stages. Occurs in croplands, grasslands, pastures, fallow fields, grass-brush rangelands, open pinelands, open mixed pine-hardwood forests, and habitat mosaics (Brennan 1999).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S4B

piping plover *Charadrius melodus*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Beaches, sandflats, and dunes along Gulf Coast beaches and adjacent offshore islands. Also spoil islands in the Intracoastal Waterway. Based on the November 30, 1992 Section 6 Job No. 9.1, Piping Plover and Snowy Plover Winter Habitat Status Survey, algal flats appear to be the highest quality habitat. Some of the most important aspects of algal flats are their relative inaccessibility and their continuous availability throughout all tidal conditions. Sand flats often appear to be preferred over algal flats when both are available, but large portions of sand flats along the Texas coast are available only during low-very low tides and are often completely unavailable during extreme high tides or strong north winds. Beaches appear to serve as a secondary habitat to the flats associated with the primary bays, lagoons, and inter-island passes. Beaches are rarely used on the southern Texas coast, where bayside habitat is always available, and are abandoned as bayside habitats become available on the central and northern coast. However, beaches are probably a vital habitat along the central and northern coast (i.e. north of Padre Island) during periods of extreme high tides that cover the flats. Optimal site characteristics appear to be large in area, sparsely vegetated, continuously available or in close proximity to secondary habitat, and with limited human disturbance.

Federal Status: T	State Status: T	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S2N

rufa red knot *Calidris canutus rufa*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Habitat: Primarily seacoasts on tidal flats and beaches, herbaceous wetland, and Tidal flat/shore. Bolivar Flats in Galveston County, sandy beaches Mustang Island, few on outer coastal and barrier beaches, tidal mudflats and salt marshes.

Federal Status: T	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4T2	State Rank: S2N

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AUSTIN COUNTY

BIRDS

Sanderling *Calidris alba*

Nonbreeding: primarily sandy beaches, less frequently on mud flats and shores of lakes or rivers (AOU 1983) also on exposed reefs (Pratt et al. 1987). Sleeps/loafs on upper beach or on salt pond dike.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

Snowy Plover *Charadrius nivosus*

Algal flats appear to be the highest quality habitat. Some of the most important aspects of algal flats are their relative inaccessibility and their continuous availability throughout all tidal conditions. An optimal site characteristic would be large in size. The size of populations appear to be roughly proportional to the total area of suitable habitat used. Formerly an uncommon breeder in the Panhandle; potential migrant; winter along coast.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3B

Sprague's pipit *Anthus spragueii*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Habitat during migration and in winter consists of pastures and weedy fields (AOU 1983), including grasslands with dense herbaceous vegetation or grassy agricultural fields.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3N

swallow-tailed kite *Elanoides forficatus*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Lowland forested regions, especially swampy areas, ranging into open woodland; marshes, along rivers, lakes, and ponds; nests high in tall tree in clearing or on forest woodland edge, usually in pine, cypress, or various deciduous trees.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2B

western burrowing owl *Athene cunicularia hypugaea*

Open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows

Federal Status:	State Status:	SGCN: N
Endemic: N	Global Rank: G4T4	State Rank: S2

white-faced ibis *Plegadis chihi*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; currently confined to near-coastal rookeries in so-called hog-wallow prairies. Nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats.

Federal Status:	State Status: T	SGCN: N
Endemic: N	Global Rank: G5	State Rank: S4B

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AUSTIN COUNTY

BIRDS

white-tailed hawk *Buteo albicaudatus*

Near coast on prairies, cordgrass flats, and scrub-live oak; further inland on prairies, mesquite and oak savannas, and mixed savanna-chaparral; breeding March-May

Federal Status:	State Status: T	SGCN: N
Endemic: N	Global Rank: G4G5	State Rank: S4B

whooping crane *Grus americana*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Small ponds, marshes, and flooded grain fields for both roosting and foraging. Potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties.

Federal Status: E	State Status: E	SGCN: Y
Endemic: N	Global Rank: G1	State Rank: S1S2N

Willet *Tringa semipalmata*

Marshes, tidal mudflats, beaches, lake margins, mangroves, tidal channels, river mouths, coastal lagoons, sandy or rocky shores, and, less frequently, open grassland (AOU 1983, Stiles and Skutch 1989).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5B

Wilson's Warbler *Cardellina pusilla*

Wilson's warblers key in on forests and scrubby areas along streams to fatten up during migration. During the nonbreeding season they use many types of habitats from lowland thickets near streams to high-elevation cloud forests in Mexico and Central America.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4

wood stork *Mycteria americana*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Prefers to nest in large tracts of baldcypress (Taxodium distichum) or red mangrove (Rhizophora mangle); forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: SHB,S3N

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AUSTIN COUNTY

BIRDS

Yellow Rail *Coturnicops noveboracensis*

BREEDING: Emergent wetlands, grass or sedge marshes and wet meadows in freshwater situations. Some breeding territories in these wet meadows contain firm footing and only a few remnant pools of water (Berkey 1991). These areas can range from damp to 38 cm (15 inches) of water but the average depth used for nesting is 8 to 15 cm (3 to 6 inches) (Savaloja 1981). NON-BREEDING: Grain fields in winter and when migrating. Winters in both freshwater and brackish marshes, as well as in dense, deep grass. During fall migration, will use many open habitats, from rice paddies to dry hayfields.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S3N

yellow-billed cuckoo *Coccyzus americanus*

In Texas, the populations of concern are found breeding in riparian areas in the Trans Pecos (know as part of the Western Distinct Population Segment). It is the Western DPS that is on the U.S. ESA threatened list and includes the Texas counties Brewster, Culberson, El Paso, Hudspeth, Jeff Davis, and Presidio. Riparian woodlands below 6,000' in elevation consisting of cottonwoods and willows are prime habitat. This species is a long-distant migrant that summers in Texas, but winters mainly in South America. Breeding birds of the Trans Pecos populations typically arrive on their breeding grounds possibly in late April but the peak arrival time is in May. Threats to preferred habitat include hydrologic changes that don't promote the regeneration of cottonwoods and willows, plus livestock browsing and trampling of sapling trees in sensitive riparian areas.

Federal Status: T	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4S5B

FISH

blackspot shiner *Notropis atrocaudalis*

Occurs from the lower Brazos River to the Sabine River drainage; Red River drainage. Small to moderate size tributary streams in runs and pools over all types of substrates.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S3

Mississippi silvery minnow *Hybognathus nuchalis*

Found in eastern Texas streams, from the Brazos River eastward and northward to the Red River; found in moderate current; silty, muddy, or rocky substrate. In Texas, adults likely to inhabit smaller tributary streams.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G5	State Rank: S4

silver chub *Macrhybopsis storeriana*

Red River and Brazos River basins. Mainly restricted to large, often silty rivers. Ranges over gravel to silt substrates but found more commonly over silt or mud bottom.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

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AUSTIN COUNTY

FISH

silverband shiner *Notropis shumardi*

In Texas, found from Red River to Lavaca River; Main channel with moderate to swift current velocities and moderate to deep depths; associatec with turbid water over silt, sand, and gravel.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4

spotted sucker *Minytrema melanops*

Found primarily in east Texas streams from the Red to the Brazos river basins. An isolated, disjunct population occurs in the Llano River near Junction downstream to about Mason; this may be an introduced population. Typically in clear creeks with firm substrates.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

INSECTS

American bumblebee *Bombus pensylvanicus*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G3G4	State Rank: SNR

migratory monarch butterfly *Danaus plexippus plexippus*

Habitat description is not available at this time.

Federal Status: C	State Status:	SGCN: Y
Endemic:	Global Rank: G4T3	State Rank: SNR

No accepted common name *Sparbarus coushatta*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G1G2	State Rank: SNR

No accepted common name *Plauditus texanus*

Larvae are associated with small to medium limestone cobble and macrophytes in shallow riffles of clear, cool, alkaline streams (P. McCafferty, personal communication, December 2003).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G2G3	State Rank: S1?

No accepted common name *Pseudocentroptiloides morihari*

Mayflies distinguished by aquatic larval stage; adult stage generally found in shoreline vegetation

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2G3	State Rank: S2?

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AUSTIN COUNTY

MAMMALS

big free-tailed bat *Nyctinomops macrotis*

Habitat data sparse but records indicate that species prefers to roost in crevices and cracks in high canyon walls, but will use buildings, as well; reproduction data sparse, gives birth to single offspring late June-early July; females gather in nursery colonies; winter habits undetermined, but may hibernate in the Trans-Pecos; opportunistic insectivore

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

eastern spotted skunk *Spilogale putorius*

Generalist; open fields prairies, croplands, fence rows, farmyards, forest edges & woodlands. Prefer wooded, brushy areas & tallgrass prairies. S.p. ssp. interrupta found in wooded areas and tallgrass prairies, preferring rocky canyons and outcrops when such sites are available.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S1S3

hoary bat *Lasiurus cinereus*

Hoary bats are highly migratory, high-flying bats that have been noted throughout the state. Females are known to migrate to Mexico in the winter, males tend to remain further north and may stay in Texas year-round. Commonly associated with forests (foliage roosting species) but are found in unforested parts of the state and lowland deserts. Tend to be captured over water and large, open flyways.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3

mountain lion *Puma concolor*

Generalist; found in a wide range of habitats statewide. Found most frequently in rugged mountains & riparian zones.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2S3

plains spotted skunk *Spilogale interrupta*

Generalist; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S1S3

Seminole bat *Lasiurus seminolus*

Pine-oak and long-leaf pine in east Texas. Habitats include pine, mixed pine-hardwood, and hardwood forests of uplands and bottomlands, particularly pine-dominated forests, including mature pine and pine-hardwood corridors in managed pine forest landscapes (Menzel et al. 1998, 1999, 2000; Carter et al. 2004; Marks and Marks 2006; Perry and Thill 2007; Perry et al. 2007; Hein et al. 2008; Ammerman et al. 2012).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

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AUSTIN COUNTY

MAMMALS

tricolored bat *Perimyotis subflavus*

Forest, woodland and riparian areas are important. Caves are very important to this species.

Federal Status: PE	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S2

MOLLUSKS

Brazos heelsplitter *Potamilus streckersoni*

Reported from streams, but not far into the headwaters, to large rivers, and some reservoirs. In riverine systems occurs most often in nearshore habitats such as banks and backwater pools but occasionally in mainchannel habitats such as riffles. Typically found in standing to slow-flowing water in soft substrates consisting of silt, mud or sand but occasionally in moderate flows with gravel and cobble substrates (Randklev et al. 2014b,c; Tsakiris and Randklev 2016b; Smith et al. 2019) [Mussels of Texas 2020]

Federal Status:	State Status: T	SGCN: Y
Endemic: Y	Global Rank: GNR	State Rank: SNR

Lilliput *Toxolasma parvum*

Reported from small streams, where it may penetrate into the headwaters, to large rivers, oxbows, sloughs, lakes, ponds, canals, borrow pits, and reservoirs. Primarily occurs in still to slow currents in mud and sand substrates (Coker et al. 1921; Read 1954; Neck and Metcalf 1988; Williams et al. 2008; Watters et al. 2009).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

Mapleleaf *Quadrula quadrula*

Reported from streams to rivers, lakes, and reservoirs. In riverine habitats, it may be found in main-channel habitats such as riffles or runs in sand, gravel, and cobble substrates with moderate to swift currents. May also be found in nearshore habitats such as banks and backwaters to include pools in sand or mud substrates with little to no flow. (Williams et al. 2008; Howells 2016; Haag and Cicerello 2016).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

Pimpleback *Cyclonaias pustulosa*

Occurs in small streams to large rivers in habitats including riffles and runs with flowing water, also found in nearshore habitats such as banks and backwaters or pools. Can occur in reservoirs but varies based by population. Is often found in substrates comprising of sand, gravel, and cobble but also mud and silt (Howells et al. 1996; Williams et al. 2008; Watters et al. 2009).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: SNR

Pistolgrip *Tritogonia verrucosa*

Reported from streams to rivers, lakes, and reservoirs, but considered less tolerant of impoundment (Haag and Cicerello 2016). Can occur in a variety of habitat types but most often found in main channel habitats such as riffles and runs with moderate current and sand, gravel, or cobble substrates (Howells et al. 1996; Williams et al. 2008).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S3S4

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AUSTIN COUNTY

MOLLUSKS

Tampico Pearlymussel *Cyrtonaias tampicoensis*

Reported from streams to rivers, reservoirs, and canals. In riverine habitats often found in nearshore habitats such as banks and backwaters, to include pools and oxbows, in mud or sand or among cobble and boulders with still to moderate currents (Howells et al. 1996).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4

Tapered Pondhorn *Uniomerus declivis*

It likely occurs in streams, rivers, oxbows, marshes, swamps, lakes, canals, ponds, and reservoirs in still to moderate currents in mud, sand, or gravel substrates. Also probably occurs in woody debris such as logjams and exposed roots of riparian trees (Williams et al. 2008).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: SNR

Texas fawnsfoot *Truncilla macrodon*

Occurs in large rivers but may also be found in medium-sized streams. Is found in protected near shore areas such as banks and backwaters but also riffles and point bar habitats with low to moderate water velocities. Typically occurs in substrates of mud, sandy mud, gravel and cobble. Considered intolerant of reservoirs (Randklev et al. 2010; Howells 2010o; Randklev et al. 2014b,c; Randklev et al. 2017a,b). [Mussels of Texas 2019]

Federal Status: T	State Status: T	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S2

REPTILES

American alligator *Alligator mississippiensis*

Aquatic: Coastal marshes; inland natural rivers, swamps and marshes; manmade impoundments.

Federal Status: SAT	State Status:	SGCN: N
Endemic: N	Global Rank: G5	State Rank: S4

common garter snake *Thamnophis sirtalis*

Terrestrial and aquatic: Habitats used include the grasslands and modified open areas in the vicinity of aquatic features, such as ponds, streams or marshes. Damp soils and debris for cover are thought to be critical.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2

eastern box turtle *Terrapene carolina*

Terrestrial: Eastern box turtles inhabit forests, fields, forest-brush, and forest-field ecotones. In some areas they move seasonally from fields in spring to forest in summer. They commonly enters pools of shallow water in summer. For shelter, they burrow into loose soil, debris, mud, old stump holes, or under leaf litter. They can successfully hibernate in sites that may experience subfreezing temperatures.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

DISCLAIMER

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AUSTIN COUNTY

REPTILES

prairie skink *Plestiodon septentrionalis*

The prairie skink can occur in any native grassland habitat across the Rolling Plains, Blackland Prairie, Post Oak Savanna and Pineywoods ecoregions.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2

slender glass lizard *Ophisaurus attenuatus*

Terrestrial: Habitats include open grassland, prairie, woodland edge, open woodland, oak savannas, longleaf pine flatwoods, scrubby areas, fallow fields, and areas near streams and ponds, often in habitats with sandy soil.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

smooth softshell *Apalone mutica*

Aquatic: Large rivers and streams; in some areas also found in lakes and impoundments (Ernst and Barbour 1972). Usually in water with sandy or mud bottom and few aquatic plants. Often basks on sand bars and mudflats at edge of water. Eggs are laid in nests dug in high open sandbars and banks close to water, usually within 90 m of water (Fitch and Plummer 1975).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

Texas horned lizard *Phrynosoma cornutum*

Terrestrial: Open habitats with sparse vegetation, including grass, prairie, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive. Occurs to 6000 feet, but largely limited below the pinyon-juniper zone on mountains in the Big Bend area.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S3

Texas map turtle *Graptemys versa*

Aquatic: Primarily a river turtle but can also be found in reservoirs. Can be found in deep and shallow water with sufficient basking sites (emergent rocks and woody debris).

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G4	State Rank: SU

western box turtle *Terrapene ornata*

Terrestrial: Ornate or western box trutles inhabit prairie grassland, pasture, fields, sandhills, and open woodland. They are essentially terrestrial but sometimes enter slow, shallow streams and creek pools. For shelter, they burrow into soil (e.g., under plants such as yucca) (Converse et al. 2002) or enter burrows made by other species.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S3

DISCLAIMER

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AUSTIN COUNTY

REPTILES

western chicken turtle *Deirochelys reticularia miaria*

Aquatic and terrestrial: This species uses aquatic habitats in the late winter, spring and early summer and then terrestrial habitats the remainder of the year. Preferred aquatic habitats seem to be highly vegetated shallow wetlands with gentle slopes. Specific terrestrial habitats are not well known.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5T5	State Rank: S2S3

PLANTS

heartleaf evening-primrose *Oenothera cordata*

Occurs in post oak woodlands on sandy soils on the coastal plain (Carr 2015).

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

Mohlenbrock's sedge *Cyperus grayoides*

Deep sand and sandy loam in dry, almost barren openings in upland longleaf pine savannas, mixed pine-oak forests, and post oak woodlands; Occurs primarily in deep, periodically disturbed sandy soils in open areas maintained by factors such as wind, erosion, or fire. This species does not occur in shaded areas or in areas of high competition with other herbaceous species. Habitats include remnant sand prairies, sandy fields, sand blow outs, sandhill woodlands, pine barrens, and open barrens in which the slope is sufficient to produce sand erosion. May also occur in areas where the soils have been disturbed by logging or road construction; Perennial

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3S4

panicled indigobush *Amorpha paniculata*

A stout shrub, 3 m (9 ft) tall that grows in acid seep forests, peat bogs, wet floodplain forests, and seasonal wetlands on the edge of Saline Prairies in East Texas. It is distinguished from other Amorpha species by its fuzzy leaflets with prominent raised veins underneath, and the flower panicles, which are 8 to 16 inches long and slender, held above the foliage. Perennial; Flowering May-August.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3

Texas meadow-rue *Thalictrum texanum*

Mostly found in woodlands and woodland margins on soils with a surface layer of sandy loam, but it also occurs on prairie pimple mounds; both on uplands and creek terraces, but perhaps most common on claypan savannas; soils are very moist during its active growing season; flowering/fruiting (January-)February-May, withering by midsummer, foliage reappears in late fall(November) and may persist through the winter

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2Q	State Rank: S2

Texas pinkroot *Spigelia texana*

Woodlands on loamy soils; Perennial; Flowering March-Nov; Fruiting April-Nov

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

DISCLAIMER

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AUSTIN COUNTY

PLANTS

Texas sandmint *Rhododon ciliatus*

Open sandy areas in the Post Oak Belt of east-central Texas; Annual; Flowering April-Aug; Fruiting May-Aug

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

Texas seymeria *Seymeria texana*

Found primarily in grassy openings in juniper-oak woodlands on dry rocky slopes but sometimes on rock outcrops in shaded canyons; Annual; Flowering May-Nov; Fruiting July-Nov

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

Texas sunnybell *Schoenolirion wrightii*

Rocky barrens in the Post Oak region near College Station, with a few disjunct populations on the Catahoula Formation of southeast Texas; Perennial; Flowering March-April; Fruiting March

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3

Texas tauschia *Tauschia texana*

Occurs in loamy soils in deciduous forests or woodlands on river and stream terraces; Perennial; Flowering/Fruiting Feb-April

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

DISCLAIMER

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ATTACHMENT IIE-3

Texas Department of Parks and Wildlife (TDPW) Correspondence

Sent Certified Mail-
No Response

ATTACHMENT IF

Houston Galveston Area
Council of Governments
(HGACG)Correspondance

- Email Sent
No Repsonse

See ATTACHMENT IIA-2 FOR REPORT

Fwd: Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW) Inbox ×

Blake Giese
to me

12:17 AM (3 minutes ago)

---------- Forwarded [redacted]
From: **Blake Giese**
Date: Sat, Feb 1, 2025 at 9:07 AM
Subject: Registration Application Liquid Processing Facility Type V Municipal Solid Waste (MSW)
To [redacted]

Good morning Erin,

I have attached a letter to you, followed by a Cultural Resources Background Study for the Type V MSW Liquid Processing Registration for my company. In order to comply with the current Texas Administrative Code 30 TAC 330.61 we are requesting a review from Houston-Galveston Area Council (HGAC) for the development of the Facility. Please let me know if you have any questions or specific requests.

Thank you,

Blake Giese
7 R Solutions
Owner/Operator

One attachment • Scanned by Gmail

Cultural report.pdf

ATTACHMENT IIG

TDPES Stormwater General Permit

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Texas Pollutant Discharge Elimination System
Stormwater Multi-Sector General Permit

The No Exposure Certification (NEC) for the facility listed below was received on February 15, 2025. The intent to obtain a conditional exclusion from permit requirements by certifying that there is no exposure of industrial materials or activities to precipitation or runoff, as allowed in the Texas Pollutant Discharge Elimination System (TPDES) stormwater Multi-Sector General Permit (MSGP) TXR050000, is acknowledged. Your facility's unique TPDES MSGP stormwater authorization number is:

TXRNECL44

Coverage Effective: February 15, 2025

Sector: L,T Primary SIC code: 4952

TCEQ's stormwater MSGP requires that facilities authorized under this general permit based on having no exposure of industrial activities to ensure that industrial activities and materials are isolated from stormwater and stormwater runoff by storm resistant shelters. As a facility authorized to discharge under the stormwater MSGP, all applicable terms and conditions related to this conditional exclusion must be complied with to maintain coverage and avoid possible penalties. If this facility changes operating or management practices so as to result in exposure of industrial activities to stormwater, then the operator must obtain permit coverage to discharge storm water before implementing the changes that result in exposure of industrial activities to stormwater runoff.

Facility/Site Information:
RN112143748
Austin County Waste Solutions
3655 Woodley Ln
Bellville, TX 77418
Austin County

Operator:
CN606353829
7 R Solutions LLC
3655 Woodley Ln
Bellville, TX 77418

The MSGP and all authorizations expire on August 14, 2026, unless otherwise amended. If you have any questions related to your application, you may contact the Stormwater Processing Center by email at SWPERMIT@tceq.texas.gov or by telephone at (512) 239-3700. For technical issues, you may contact the stormwater technical staff by email at SWGP@tceq.texas.gov or by telephone at (512) 239-4671. Also, you may obtain information on the TCEQ web site at https://www.tceq.texas.gov/goto/wq-dpa.

K Keel

Issued Date: February 15, 2025

FOR THE COMMISSION

PART III NOT APPLICABLE SECTIONS

330.63(f)(7)(A)

330.457(f)(3)

330.457(f)(4)

330.457(f)(6)

PART II - FIGURES

II-1 Site Layout Plan

II-2A General Topographic Map

II-3 Aerial Photograph

II-4 Wind Rose

II-5 Water Well and Oil and Gas Well Location Map

II-6 Structures Location Map

II-7 Land Use Map

II-8 Traffic Volumes Map

II-9 Airport (FAA) Map

II-10 Drainage, Pipeline, and Utility Easements

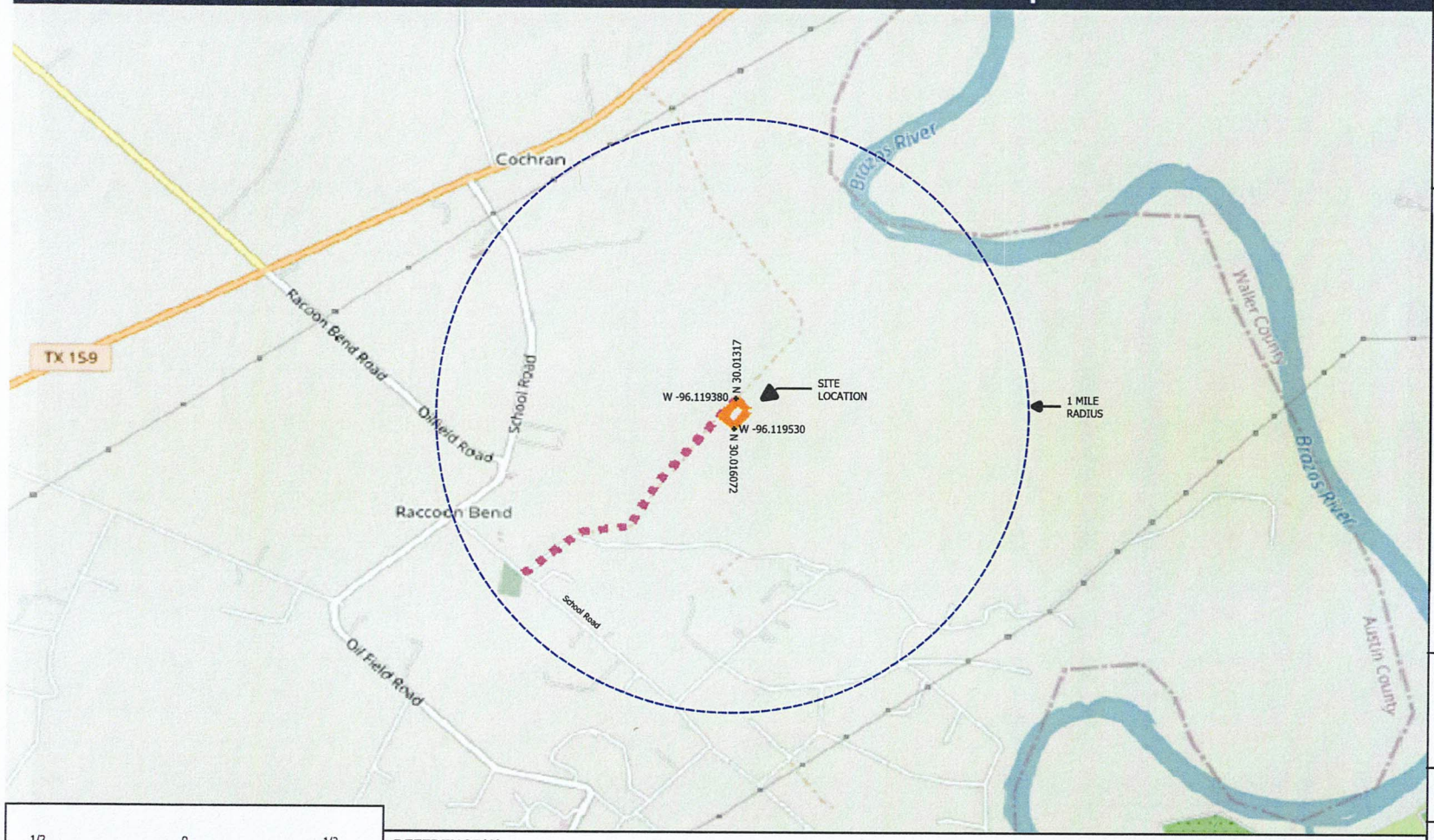
II-11 Zoning Map

II-12 Soils Map

II-13 Floodplain Map

II-14 Site Development- Plan Proposed Site Layout Map

Austin County Waste Solutions- Site Location Map



1/2 0 1/2 MILES

REFERENCE(S)
BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP. DOWNLOADED FROM https://www.txdot.gov/apps/statewide_mapping

Legend:

- Site Location Boundaries
- Access Road to Facility
- 1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

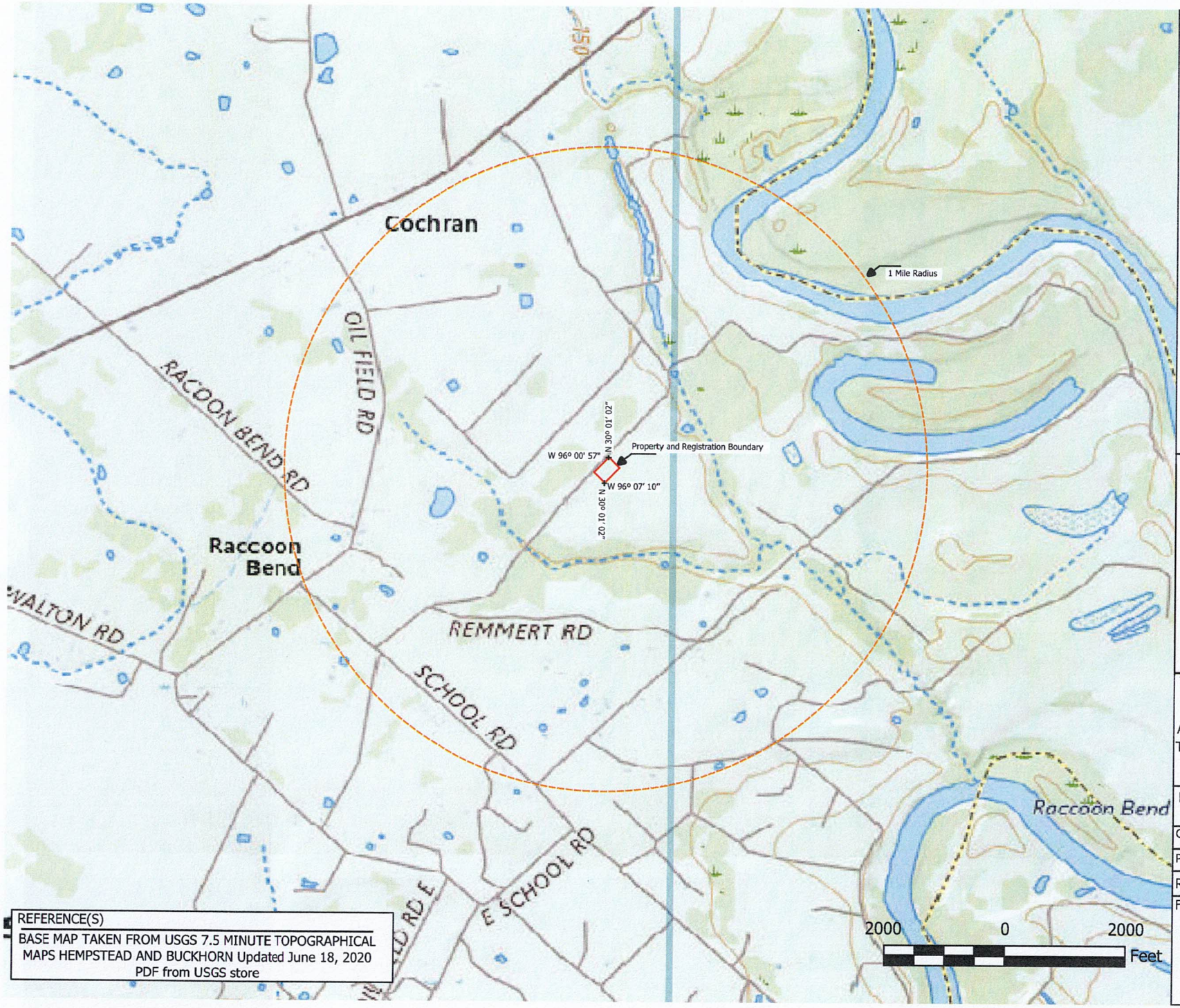
7/10/25

N

Title:
Site Location Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 1/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure
File: ACWS Liquid Processing Facility- Site Location Map.pdf	II-1



REFERENCE(S)

BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHICAL MAPS HEMPSTEAD AND BUCKHORN Updated June 18, 2020 PDF from USGS store

Legend:

Property and Registration Boundary

1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

N

7/10/25

Title:

Topographical Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	
File: ACWS Liquid Processing Facility-Topographical Map.pdf	Figure: II-2

Legend:

- Property and Registration Boundary
- Access Road
- 1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:

Topographical Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

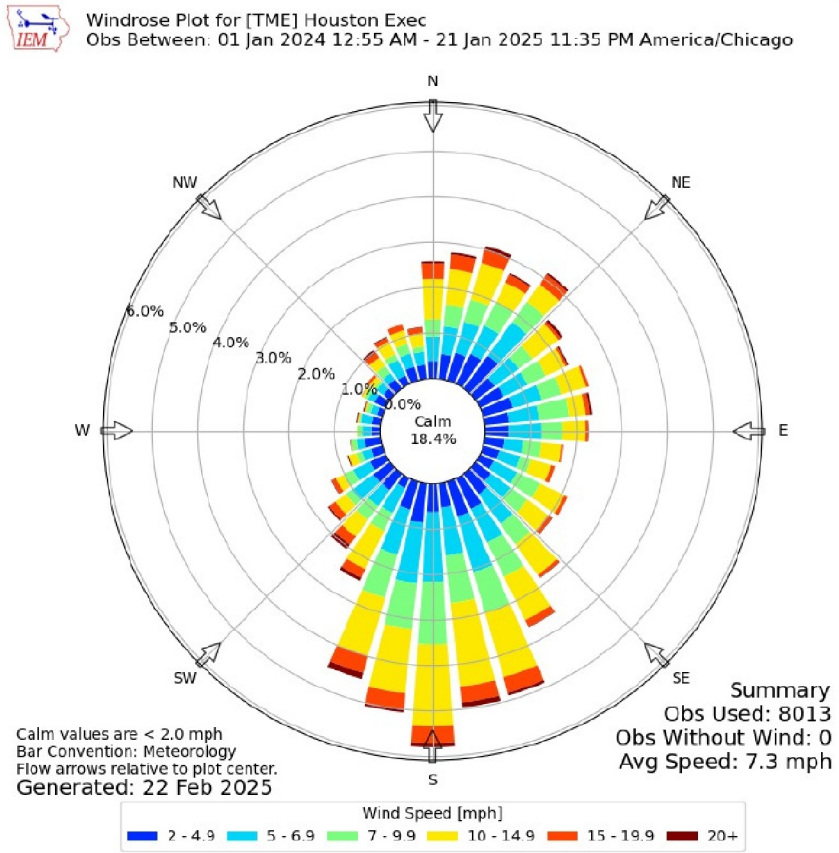
Prepared for:
7 R Solutions, LLC

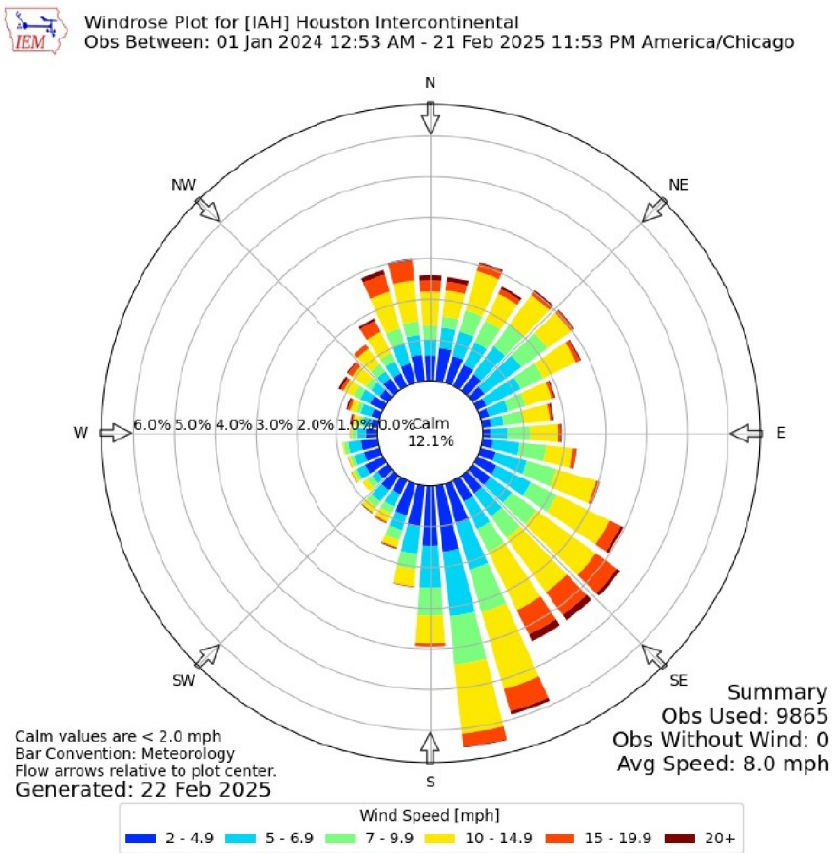
Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	
File: ACWS Liquid Processing Facility-Topographical Map.pdf	Figure: II-3

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.

2640 0 2640 Feet





Legend:

N

Title:

Windrose Maps

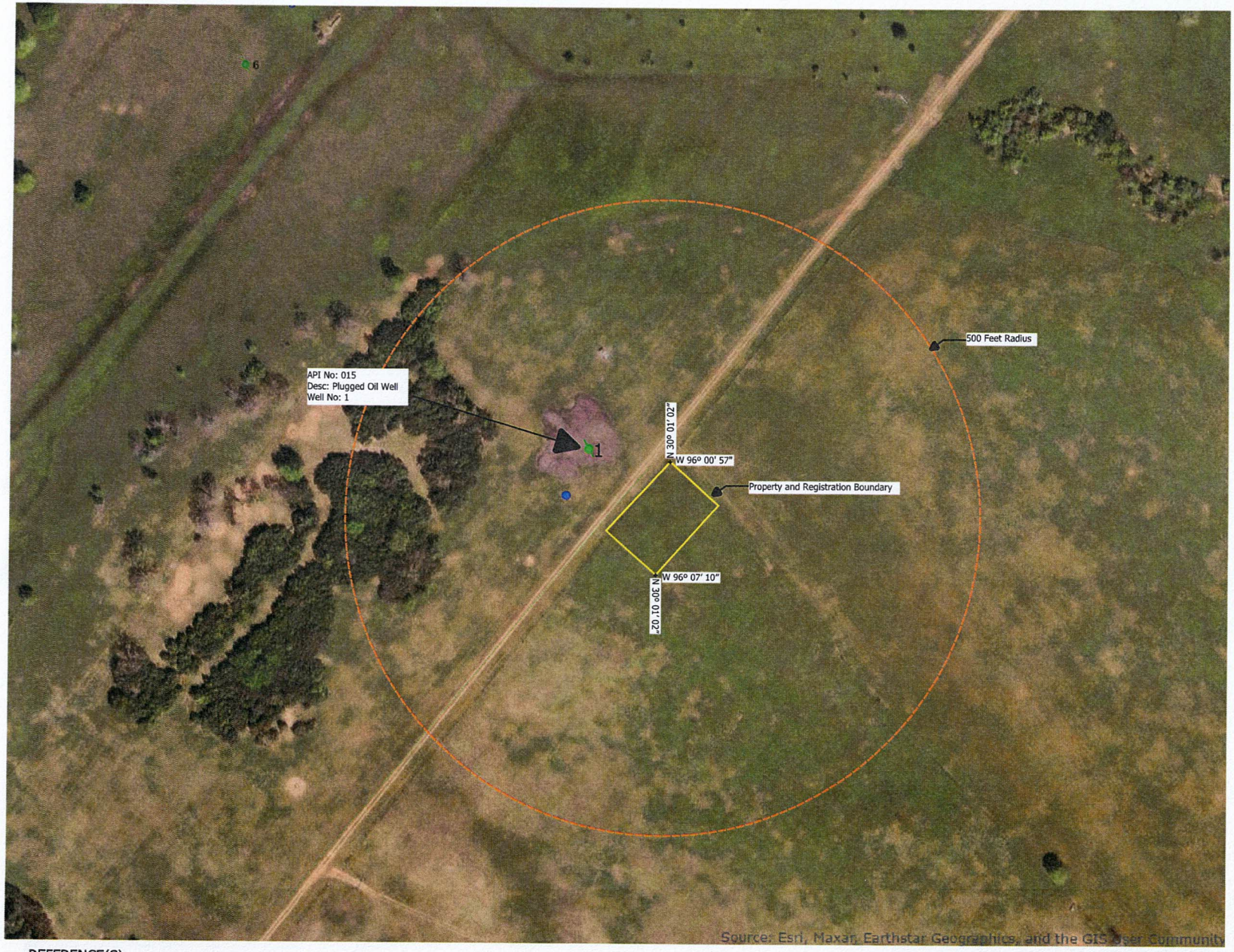
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure:
File: ACWS Liquid Processing Facility-Windrose Map.pdf	II-4

REFERENCE(S)

Windrose from IAstate.edu Iowa Environmental Mesonet



REFERENCE(S)

BASE MAP TAKEN FROM TEXAS RAIL ROAD COMISSION GISVIEWER ERSI Updated December 2024

250 0 250 Feet

Legend:
- Property and Registration Boundary
- Access Road
- 500 Feet Radius
- Plugged Oil Well
- Proposed Water Well

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

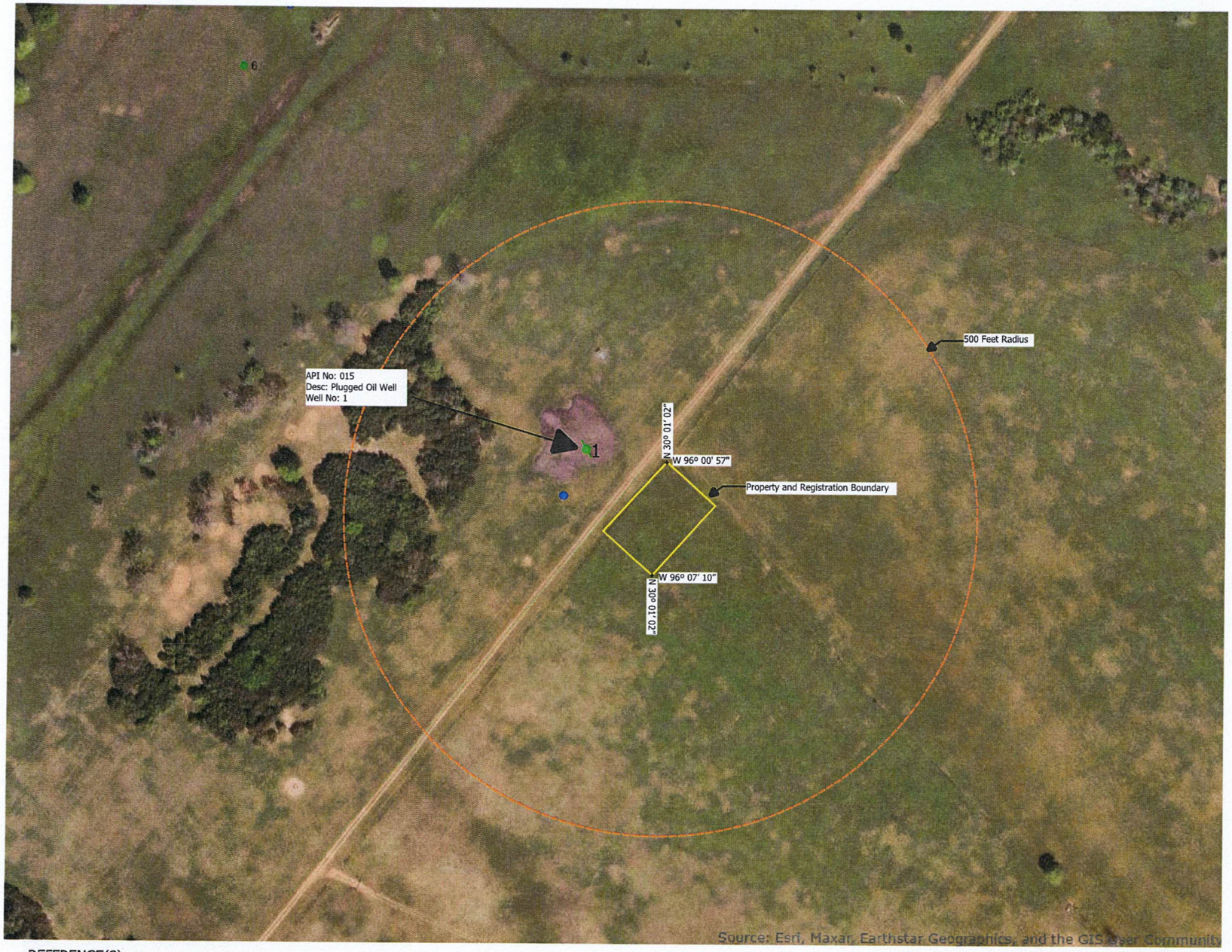
N

Title:
Oil, Gas, and Water Map

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure:
File: ACWS Liquid Processing Facility-Oil, Gas, and Water Map.pdf	II-5



REFERENCE(S)

BASE MAP TAKEN FROM TEXAS RAIL ROAD COMISSION
GISVIEWER ERSI Updated December 2024

250 0 250 Feet

Legend:
- Property and Registration Boundary
- Access Road
- 500 Feet Radius
- Plugged Oil Well
- Proposed Water Well

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:
Structures Location Map

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure:
File: ACWS Liquid Processing Facility - Structure Maps	II-6

Legend:

- Property and Registration Boundary
- Access Road
- 1 Mile Radius
- Historical Site/ Cemetery

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:

Aeiral Map- Historical
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

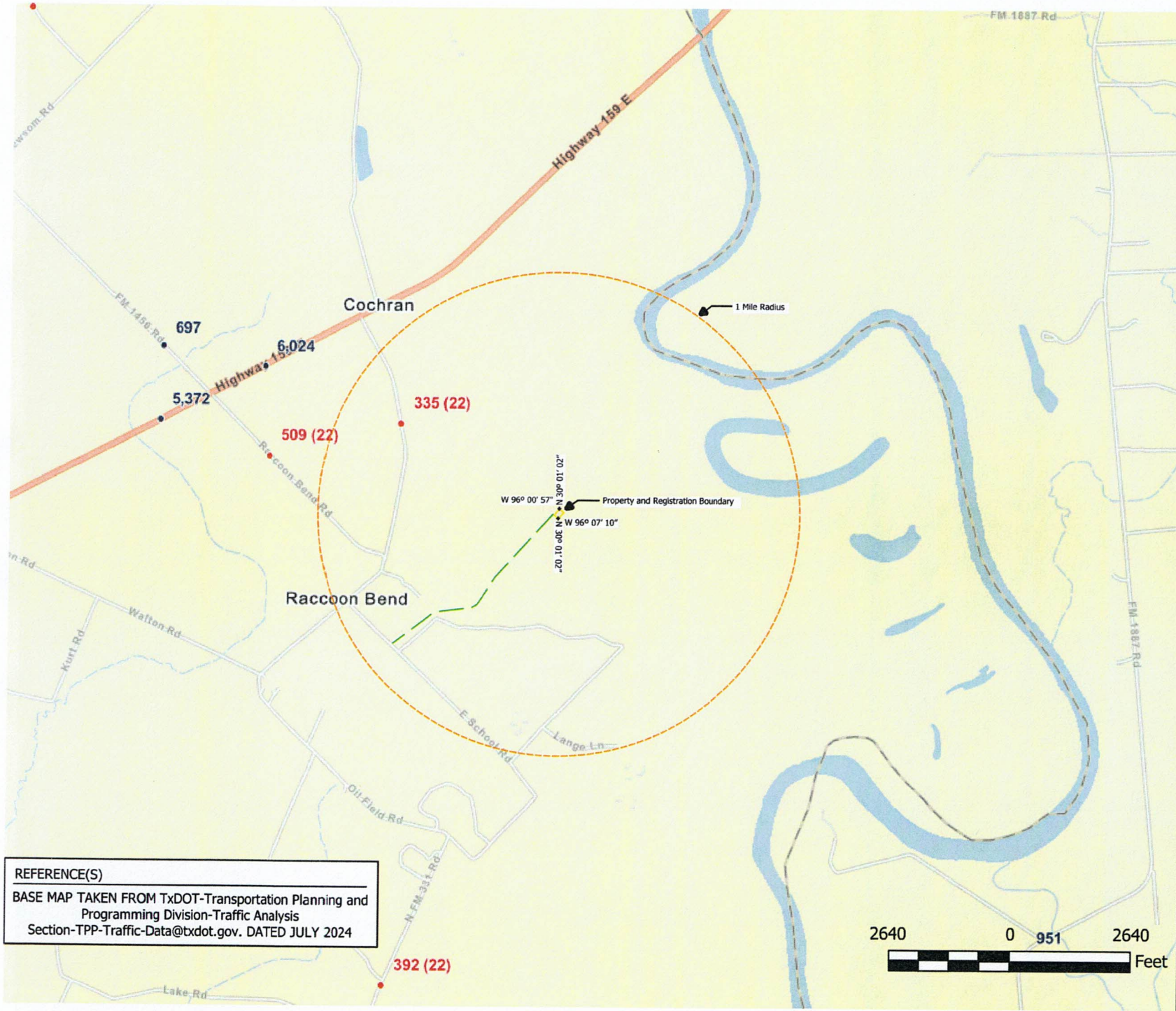
Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	
File: ACWS Liquid Processing Facility- Aerial Map.pdf	Figure: II-7

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.
Infomation layered from Texas Historical Comission- updated 2024

2640 0 2640 Feet



REFERENCE(S)

BASE MAP TAKEN FROM TxDOT-Transportation Planning and Programming Division-Traffic Analysis Section-TPP-Traffic-Data@txdot.gov. DATED JULY 2024

Legend:

- Property and Registration Boundary
- Gravel Access Road
- Two Lane Asphalt
- 1 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

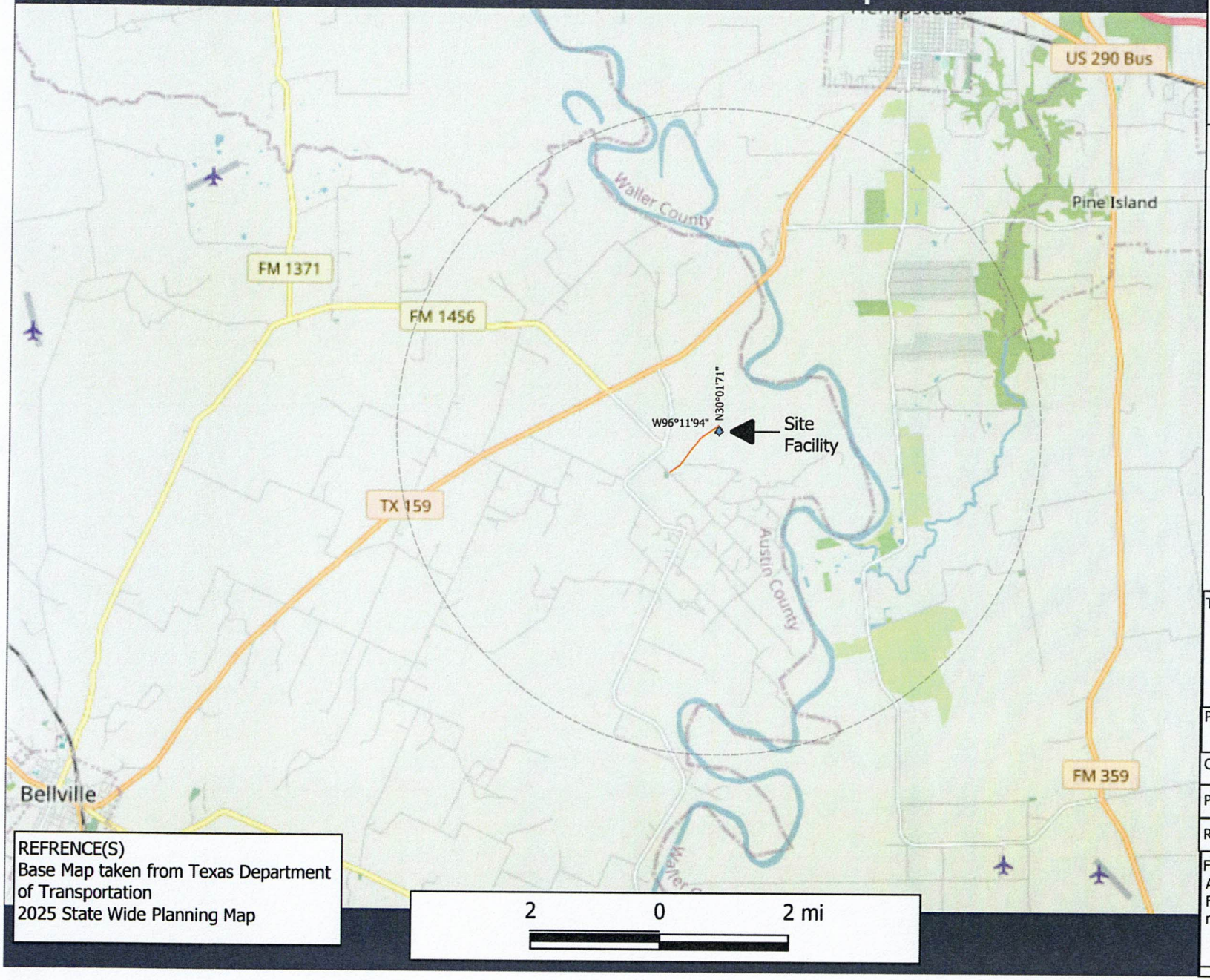
Title:

Traffic Volumes Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure: II-8
File: ACWS Liquid Processing Facility-Traffic volumes Map.pdf	

Austin County Waste Solutions- General Map Location



REFRENCE(S)
Base Map taken from Texas Department of Transportation
2025 State Wide Planning Map

Legend:
- Site Location
- Access Road to Facility
- 5 Mile Radius

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

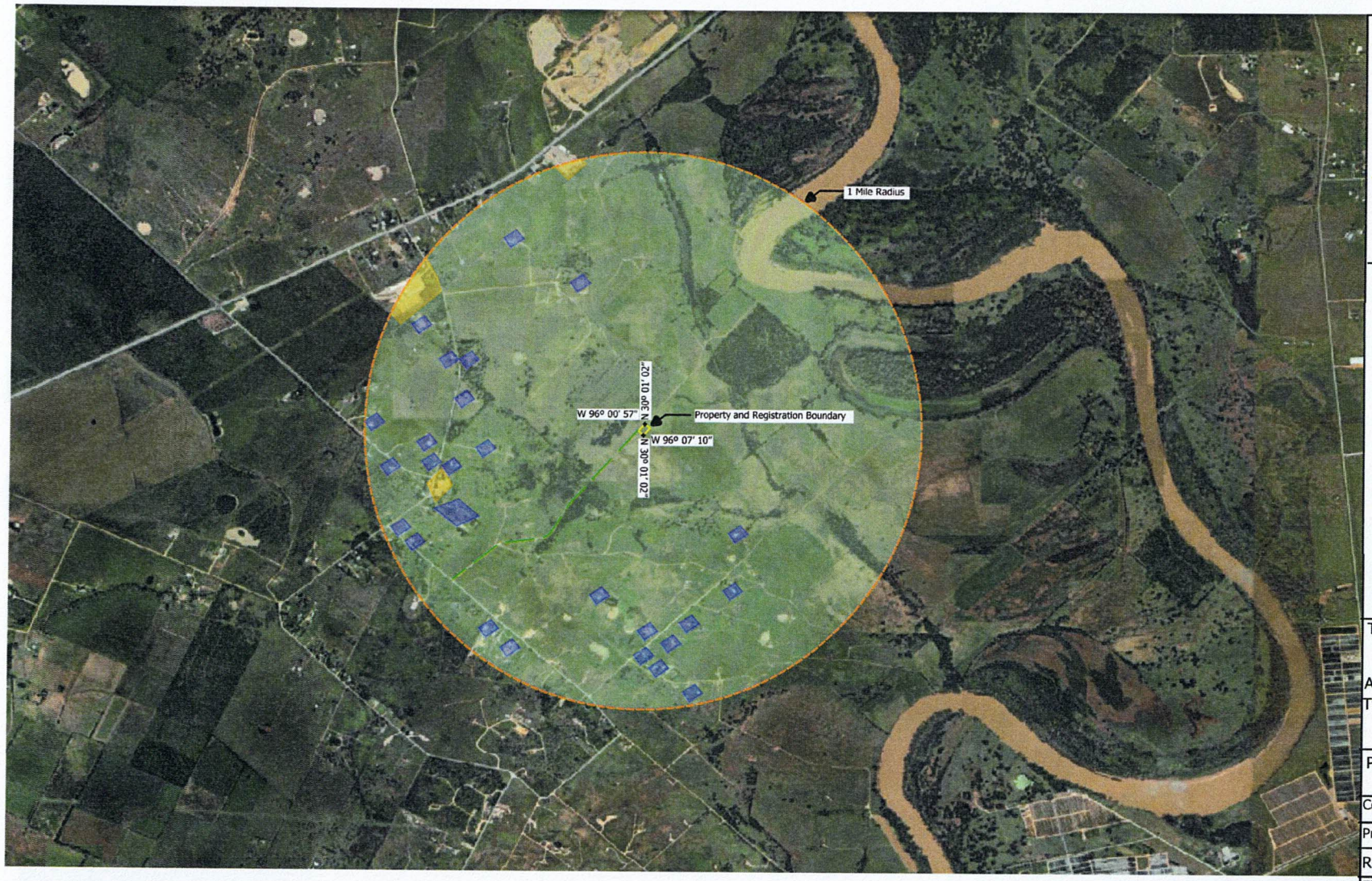
7/10/25

N

Title: General Location Map
Austin County Waste Solutions
Type V REGIRISTRATION APPLICATION
Austin County, Texas

Prepared for: 7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure
File: ACWS Liquid Processing Facility- General location map.pdf	II-9



Legend:

- Property and Registration Boundary
- Access Road
- 1 Mile Radius
- Commercial Use
- Residental Use
- Agricultural Use

Seal:

ESE PARTNERS
STATE OF TEXAS
TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131

7/10/25

N

Title:

Zoning Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	
File: ACWS Liquid Processing Facility-Zoning Map.pdf	Figure: II-11

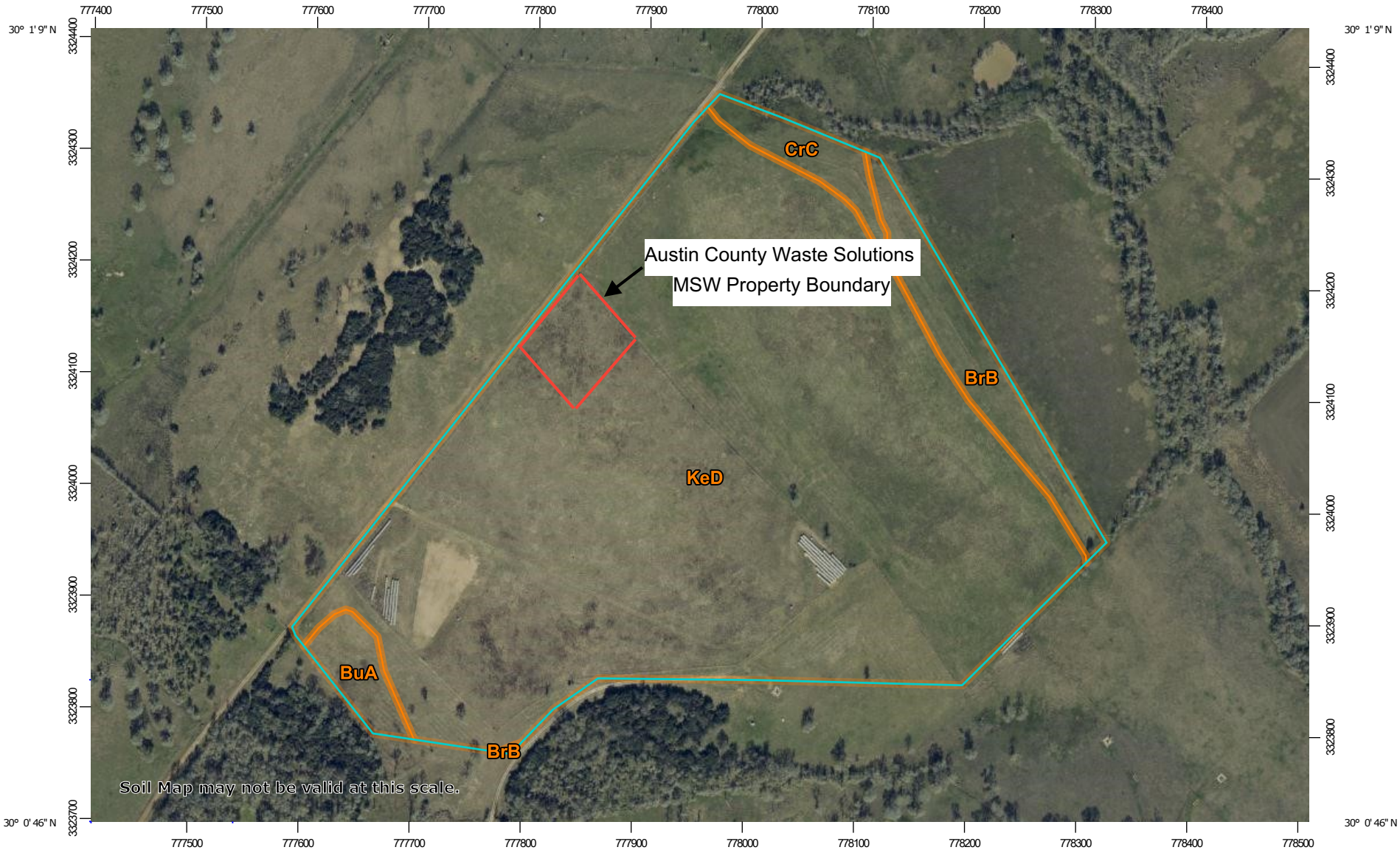
REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.

2640 0 2640 Feet

Soil Map—Austin and Waller Counties, Texas

Austin County Waste Solutions- Figure II-12



Map Scale: 1:5,010 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

Austin County Waste Solutions- Figure II-12

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Austin and Waller Counties, Texas
Survey Area Data: Version 20, Aug 24, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 14, 2019—Mar 20, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BrB	Brazoria clay, 1 to 3 percent slopes, rarely flooded	3.3	5.5%
BuA	Burleson clay, 0 to 1 percent slopes	1.3	2.2%
CrC	Crockett fine sandy loam, 1 to 5 percent slopes	1.6	2.6%
KeD	Kenney loamy fine sand, 2 to 8 percent slopes	54.4	89.7%
Totals for Area of Interest		**60.7**	**100.0%**

NOTES TO USERS

or use in administering the National Flood Insurance Program. It essarily identify all areas subject to flooding, particularly from local es of small size. The **community map repository** should be possible updated or additional flood hazard information.

ore detailed information in areas where **Base Flood Elevations** **floodways** have been determined, users are encouraged to consult ddies and Floodway Data and/or Summary of Stillwater Elevations ed within the Flood Insurance Study (FIS) report that accompanies sers should be aware that BFEs shown on the FIRM represent e-foot elevations. These BFEs are intended for flood insurance es only and should not be used as the sole source of flood mation. Accordingly, flood elevation data presented in the FIS be utilized in conjunction with the FIRM for purposes of ed/or floodplain management.

se **Flood Elevations** shown on this map apply only landward American Vertical Datum of 1988 (NAVD 88). Users of this be aware that coastal flood elevations are also provided in the Stillwater Elevations table in the Flood Insurance Study report ction. Elevations shown in the Summary of Stillwater Elevations be used for construction and/or floodplain management purposes higher than the elevations shown on this FIRM.

he **floodways** were computed at cross sections and interpolated sections. The floodways were based on hydraulic considerations requirements of the National Flood Insurance Program. Floodway ther pertinent floodway data are provided in the Flood Insurance or this jurisdiction.

not in Special Flood Hazard Areas may be protected by **flood tures.** Refer to Section 2.4 "Flood Protection Measures" of urance Study report for information on flood control structures tion.

n used in the preparation of this map was Texas State entral zone (FIPSZONE 4204). The **horizontal datum** was NAD83, eroid. Differences in datum, spheroid, projection or State Plane the production of FIRMs for adjacent jurisdictions may result in al differences in map features across jurisdiction boundaries. ces do not affect the accuracy of the FIRM.

ns on this map are referenced to the North American Vertical 88. These flood elevations must be compared to structure and tions referenced to the same **vertical datum.** For information version between the National Geodetic Vertical Datum of 1929 th American Vertical Datum of 1988, visit the National Geodetic e at http://www.ngs.noaa.gov/ or contact the National Geodetic following address:

n Services
12
tic Survey
2
st Highway
MD 20910-3282

nt elevation, description, and/or location information for **bench marks** s map, please contact the Information Services Branch of the detic Survey at **(301) 713-3242,** or visit its website at .noaa.gov/.

rmation shown on this FIRM was provided in digital format by the Resources Information System (TNRIS). This information metrically compiled at a scale of at least 1:24,000 from aerial ted 2004.

ts more detailed and up-to-date **stream channel configurations** own on the previous FIRM for this jurisdiction. The floodplains s that were transferred from the previous FIRM may have been conform to these new stream channel configurations. As a ood Profiles and Floodway Data tables *in the Flood Insurance (which contains authoritative hydraulic data)* may reflect stream ces that differ from what is shown on this map.

nits shown on this map are based on the best data available publication. Because changes due to annexations or de-annexations curred after this map was published, map users should contact mmunity officials to verify current corporate limit locations.

the separately printed **Map Index** for an overview map of the g the layout of map panels; community map repository addresses; of Communities table containing National Flood Insurance Program h community as well as a listing of the panels on which each located.

EMA Map Service Center at 1-800-358-9616 for information on ucts associated with this FIRM. Available products may include ued Letters of Map Change, *a Flood Insurance Study report*, versions of this map. The FEMA Map Service Center may also be x at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

questions about this map or questions concerning the National e Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) EMA website at http://www.fema.gov/.

Application
Area
Process Facility
Property Boundary

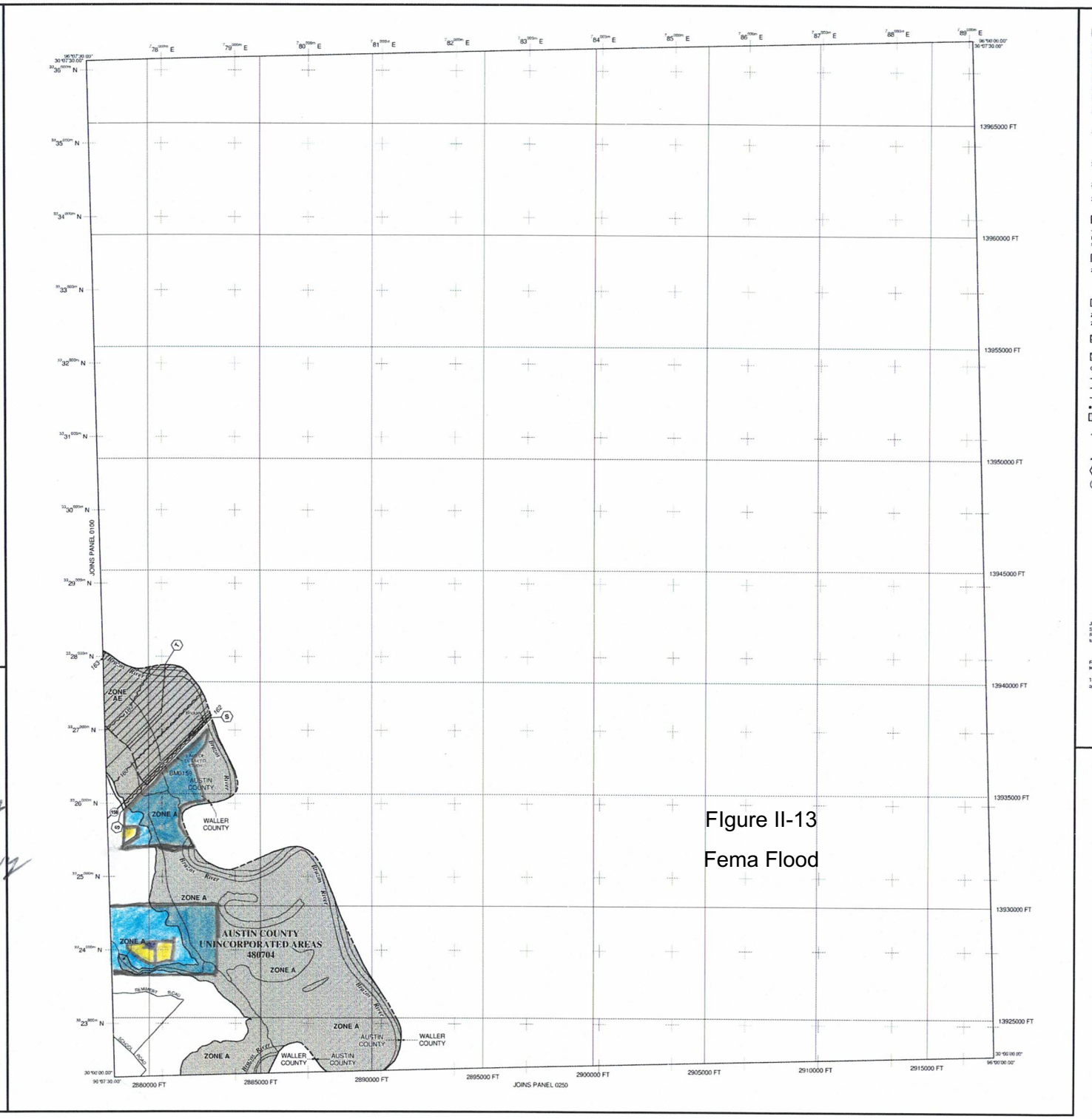


FIgure II-13

Fema Flood

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AH	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	Floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

A — A	Cross section line
23 - - - - 23	Transect line
97°07'30", 32°22'30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
75000m N	1000-meter Universal Transverse Mercator grid, zone 14
6000000 FT	5000-foot grid: Texas State Plane coordinate system, south central zone (FIPSZONE 4204), Lambert Conformal Conic
DX5510	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5	River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
January 17, 1990
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
June 16, 1999 -to update corporate limits and to change base flood elevations.
September 3, 2010 -to update corporate limits, to incorporate previously issued Letters of Map Revision, to change Special Flood Hazard Areas, to revise vertical datum, to update map format, to update roads and road names, and to reflect updated topographic information.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 2000'

1000 0 2000 4000 FEET

600 0 600 1200 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0125E

FIRM
FLOOD INSURANCE RATE MAP
AUSTIN COUNTY, TEXAS
AND INCORPORATED AREAS

PANEL 125 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

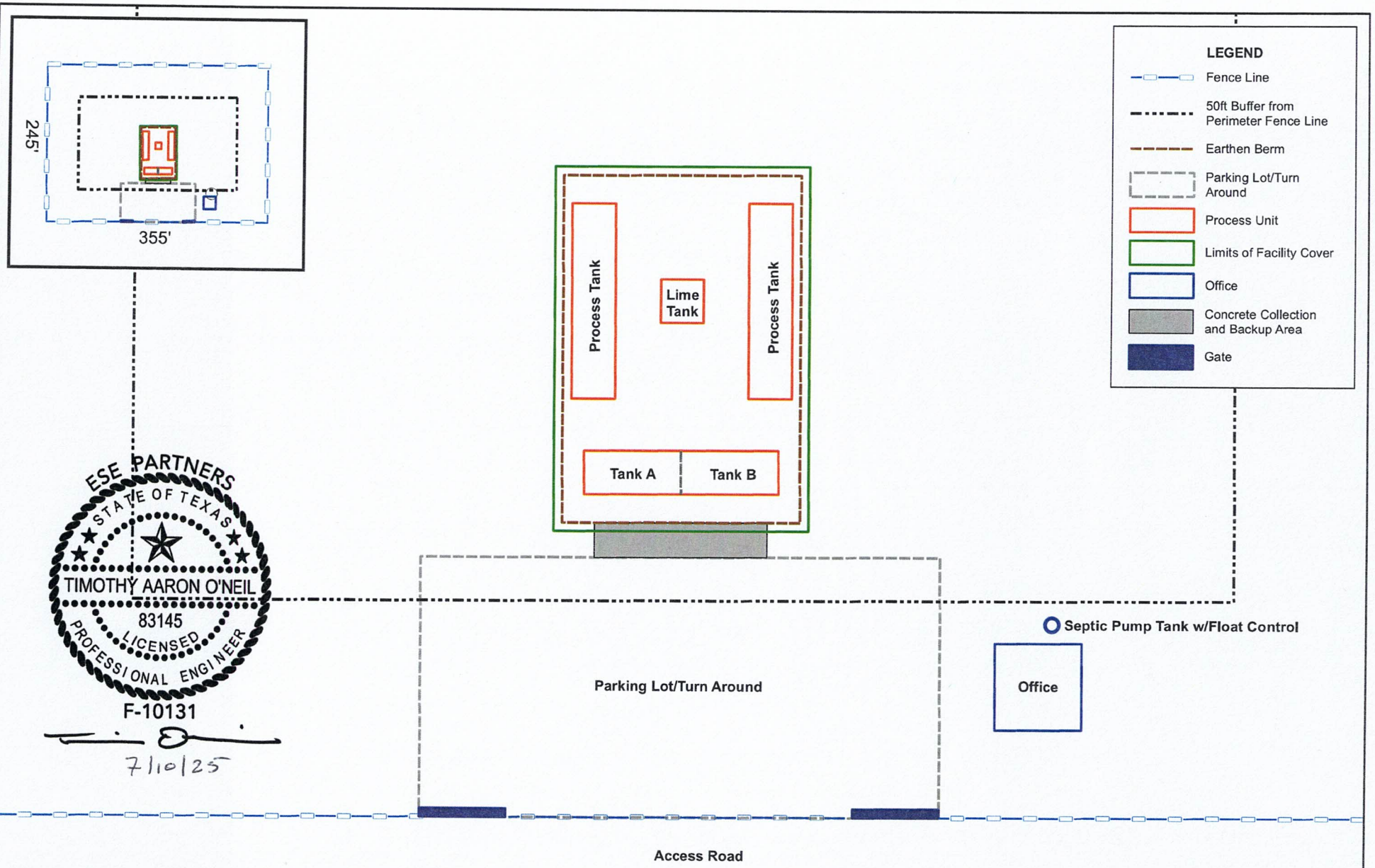
COMMUNITY	NUMBER	PANEL	SUFFIX
AUSTIN COUNTY	480704	0125	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48015C0125E

MAP REVISED
SEPTEMBER 3, 2010

Federal Emergency Management Agency



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F-10131
7/10/25

AUSTIN COUNTY WASTE SOLUTIONS
AUSTIN COUNTY, TEXAS

PLANNED FACILITY LAYOUT

PROJECT NUMBER: 24-1353-1
FILE NAME: FIGURE_2_SitePlan
DATE: 6/24/2025
DRAWN BY: LS
APPROVED BY: TO

ese partners
Copyright © 2025

Projection: NAD 1983 2011 StatePlane Texas South Central FIPS 4204 FtUS
Source: Aerial Imagery Provided by Google

FIGURE II-14

0 30'
1 inch = 30 feet
N

TYPE V LIQUID PROCESSING REGISTRATION APPLICATION, PART III REPORT

Austin County Waste Solutions

Type V Liquid Waste Processing Facility
Bellville, Texas
Austin County

Prepared by:

7 R Solutions, LLC
3655 Woodley Ln
Bellville, Texas 77418

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Intended for Permitting Purposes Only
December 2024

Type V Liquid Waste Processing Registration Application, Part III
Austin County Waste Solutions

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7/10/25

1. Introduction

This **Part III Site Development Plan** (SDP) for the Austin County Waste Solutions Facility ("Facility or Site") registration application has been developed in accordance with 30 TAC §330.63(a). This plan includes criteria in the design of the Facility that will provide for the safeguarding of the health, welfare, and physical property of the people and the environment through consideration of geology, soil conditions, drainage, land use, zoning, adequacy of access roads and highways, and other considerations for the Facility as dictated by the requirements of 30 TAC §330.63.

1.1 Site Location

The facility is located in Austin County, Texas, outside of the extraterritorial jurisdiction of the City of Bellville. The Austin County Waste Solutions processing facility encompasses 2 acres and the entrance is located 1500 feet from the intersection of Oil Field Road on the North side of School Road. There is a 0.86 mile private driveway to the 2-acre facility. The site location is shown on **Figures III-1**. An aerial photograph showing the existing site is provided as **Figure III-2**.

The process facility land is owned by Kenneth Woodley and Facility is operated by Blake Giese (MSW Operator). The mailing/physical address for the Facility property is:

Austin County Waste Solutions
3655 Woodley Ln
Bellville, TX 77418

1.2 Land Use and Zoning

A land use analysis was performed for the Facility within a one-mile radius of the registration boundary. The majority of the land within a one-mile radius of the site is "open" area used for agriculture. The next largest component of the land is residential. A detailed analysis of the specific-use breakdown is included in **Part II** of this application.

Since the Facility is located outside the extraterritorial jurisdiction (ETJ) of Bellville, there are no zoning restrictions for the Facility.

2. General Facility Design

30 TAC §330.63(b)

The general Facility design has been developed in accordance with 30 TAC §330.63(b) and is discussed in the following sections. The general Facility design includes descriptions of Facility access, waste movement, sanitation, water pollution control, and endangered species protection. The section of the SDP also includes a waste flow diagram and a schematic of waste processing areas.

2.1 Facility Access

30 TAC §330.63(b)(1)

The Facility is located 1500 feet from the intersection of Oil Field Road on the North Side of School Road. Access to the facility will be one entrance to a 0.86 mile private driveway to the 2-acre facility.

2.1.1 Access Control 30 TAC §330.63(b)(1)

The Process Facility will limit access to the Facility with lockable gates. The entrance to the facility will only be open during operating hours or with an employee present. All vehicles carrying waste will enter through the same entrance. Upon entering the facility, vehicles will be required to stop at the office before unloading the vehicle. Vehicles will exit the facility through the same entrance.

During operation hours, the site entrance gates will be continuously monitored by site personnel to prevent any unauthorized entry to the Facility. Access to the process facility will only be given to the landowner, employees, customers contracted to dispose, and TCEQ officials.

A conspicuous sign measuring a minimum of four feet by four feet will be maintained at the public entrance to the Facility. The sign states, in letters at least three inches high, the name of the site, type of site, the registration number issued by the TCEQ, hours and days of operation, an emergency 24-hour contact phone number(s), and the local emergency fire department phone number. The sign is visible and readable from the Facility entrance.

2.1.2 Adequacy of Access Roads and Highways

A more detailed traffic and road adequacy analysis is included in Part II, Section 2.3. In accordance with §330.61(i)(4), TxDOT was contacted for any traffic or location restrictions which may apply to the proposed facility. Copies of the related correspondence are included in Part II, Attachment IIC.

2.2 Waste Movement 30 TAC §330.63(b)(2)

Figure III-1, General Process Flow Schematic illustrates a generalized process design and working plan of the overall Facility. In general, bulk slurry lime is received from an approved supplier. Weight and pH is monitored upon receiving. The bulk slurry lime is temporarily stored for the lime stabilization treatment of domestic septage. Domestic septage will be delivered to the facility by customer pump trucks. The septage will be pumped into the facility via customers' pump truck into the facility's septic waste tank. A flow meter will be used to measure the gallon/per minute into the tank. A bar screen at the top of the facility's septic waste tank is used to remove inorganics. The inorganics will then be manually removed and placed into a dumpster, which is managed by a contracted waste company. The waste will then be transported to a TCEQ-approved landfill. Electric pumps will then move the septic waste through an additional smaller bar screen and into the processing tanks. Inorganics from this bar screen will also be placed into the same dumpster. Slurry lime will then be added for lime stabilization to properly neutralize sewage odors. The lime is pumped into the processing tank with the screened septage and re-circulated via pumps for blending. A litmus paper/time test is performed and documented. pH will be checked and must remain above 12 on the pH scale for 30 minutes per the requirement. Addition of domestic water will be used as a further processing aid if needed. Once treated and all requirements are met, the septage will be pumped onto a TCEQ approved BFU site.

2.2.1 Waste Flow Diagram 30 TAC §330.63(b)(2)(A)

Figure III-1 General Process Flow Schematic, developed in accordance with §330.63(b)(2)(A), is a flow diagram illustrating storage, processing, and disposal sequences for the types of waste accepted.

2.2.2 Schematic View Drawing 30 TAC §330.63(b)(2)(B)

Figure III-1 General Process Flow Schematic, developed in accordance with §330.63(b)(2)(B), is a schematic view showing the various phases of collection, separation, and processing for the types of waste accepted at the facility.

2.2.3 Ventilation and Odor Control Measures 30 TAC §330.63(b)(2)(C)

All domestic septage being received by the facility will be transferred into enclosed frac tanks. Lime will be added to increase pH for pathogen and odor control. A minimum 50' buffer will be utilized around the entire 2-acre facility to prevent nuisance odors from leaving the boundary of the facility. If, at any time, nuisance odors are found to be passing the Facility boundary, the operator will employ and properly maintain/operate odor control equipment. The Facility may be required to suspend operations until the nuisance has been properly abated.

2.2.4 Generalized Construction and Engineering Details 30 TAC §330.63(b)(2)(D)-(F)

The Facility property will include frac tanks for trash screening and processing. All processing areas will be supported by a gravel base and reinforced concrete to accommodate the weight of the liquid filled tanks. Pumps will be used to move the liquid through the process. Bar screens will be used to separate the inorganics. Screened inorganics will be placed into a dumpster/rolloff to be disposed of at a TCEQ approved landfill within 50 miles of the facility. The process area will be covered but open on all 4 sides. Next to the process area there will be a 20'X20' office building that will have a breakroom, restroom, and office space.

2.2.5 Storage of Grease, Oil, and Sludge 30 TAC §330.63(b)(2)(G)

The Facility will not accept or store grease or oil. Domestic Septage is the only waste that will be accepted. All processed septage will be treated and land applied daily per normal operations. In a rain event or saturated soils we will stage the treated septage for no more than 7 days. §330.63(b)(2)(G)

2.2.6 Disposition of Effluent 30 TAC §330.63(b)(2)(H)

All processed domestic septage will be land applied for beneficial use on an approved TCEQ site.

2.2.7 Noise Pollution Control 30 TAC §330.63(b)(2)(I)

The Facility is located to minimize the potential noise pollution and visual impact to neighboring landowners and the public. The direct impact to the neighboring properties is minimal. The 2-acre facility sits in the middle of a 2,200-acre privately owned ranch.

2.3 Sanitation

2.3.1 Processing Areas Designed for Proper Cleaning and Surface Drainage Controls

30 TAC §330.63(b)(3)(A)

The Facility will be designed to control surface water runoff and drainage control. The process facility will be covered to prevent stormwater from entering the treatment area. We will have a berm around the process area to contain any spills.

2.3.2 Construction Material Used That Can Be Cleaned

30 TAC §330.63(b)(3)(B)

The process area is composed of metal and the floor composed of concrete, both of which can be easily cleaned utilizing a high-pressure washer.

2.3.3 Equipment for Cleaning with Water or Steam

30 TAC §330.63(b)(3)(C)

A high-pressure washer will be staged at the Facility or rented on an as necessary basis for cleaning purposes.

2.3.4 Floor Drains and/or Sumps AC §330.63(b)(3)(D)

Figure III-3, Detail of Processing Area Structure- There are no floor drains or sumps.

2.3.5 Water Pollution Control- Description of Proper Disposal of Liquids Resulting from Waste Processing, Details for Treatment of Wastewater 30 TAC §330.63(b)(4)

All septage will be treated per 30 TAC §312 for beneficial land application on our BFU sites.

2.4 Endangered Species Protection 30 TAC §330.63(b)(5)

A threatened and endangered species assessment was conducted for the proposed registration application. The objective of the assessment was to evaluate the potential for the existence of species and/or their habitat that are considered protected under the Endangered Species Act of 1973 and subsequent amendments and listings in accordance with the requirements of 30 TAC §330.61(n). Based on a field survey and available records, it was concluded that the Facility and the operation of the Facility is not expected to result in the destruction or adverse modification of the critical habitat of endangered or threatened species, or cause or contribute to the taking of any endangered or threatened species. A copy of the assessment is included in **Part II, Attachment IIE**.

3. Surface Water Drainage Report 30 TAC §330.63(c)

The Facility was designed, constructed, and is operated to comply with the requirements of §330.303. The drainage and floodplain criteria applicable to the proposed Facility are summarized in the following sections.

3.1 Drainage Analyses 30 TAC §330.63(c)(1)

The design of the Facility manages run-on and runoff during the peak discharge of a 25-year rainfall event and prevents the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials. We will construct a berm around the process facility tanks to prevent the runoff of waste. The berm will be under a covered structure to prevent any stormwater from coming in contact with the waste. The stormwater drainage calculation is included in Attachment IIIC

3.2 Flood Control and Analyses 30 TAC §330.63(c)(2)

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) that includes the site area (Austin County, Texas and Incorporated Areas, Map Number 48015C0125E, dated September 03, 2010) was reviewed and is included in Figure II-13. The figure shows the boundary of the proposed Facility registration on the FIRM.

The FIRM indicates that the Facility registration boundary is outside of the 100-year floodplain. Therefore, no additional floodplain information is required to be provided nor is a floodplain construction permit required.

4. Waste Management Unit Design 30 TAC §330.63(d)

Rules §330.63(d)(2), (3), (4), (5), (6), (7), and (9) pertaining to incineration units, surface impoundments, landfill units, arid exemption landfill application, Type V mobile liquid waste processing units, Type IX waste processing units, and Type VI waste processing demonstration facilities, respectively, are not applicable for the Facility. Austin County Waste Solutions Processing Facility is a Type V Liquid Processing Facility.

4.1 Storage and Transfer Units

4.1.1 Efficient Waste Processing 30 TAC §330.63(d)(1)(A)

No nuisance odors, fly breeding areas, or disease vectors are thought to be created by the Facility due to facility design and the nature of the waste accepted, and there is no storage at the facility. All processed septage will be land applied daily.

4.1.2 Spill Containment 30 TAC §330.63(d)(1)(B)

There will be a berm around the process area to contain any spills during the process. Spills will be cleaned using a pressure washer and vacuum truck then pumped back into the beginning of the process.

4.1.3 Maximum Storage Time 30 TAC §330.63(d)(1)(C)

There is no storage at the Facility. Septage will be treated, and land applied daily. If a rain event occurs the septage may be staged for no more than 7 days in an enclosed tank.

4.1.4 Characterization of the Contaminated Groundwater 330.63 (f)(7)(A)

Groundwater will be tested for heavy metals if required by the ED.

5. Facility Closure

5.1 Closure Plan 30 TAC §330.459

The Facility's Closure Plan, compliant with 30 TAC §330.459, outlines the procedures for waste removal from processing units. It details the complete removal of waste and the decontamination of the processing units. All waste materials on-site will be transported and disposed of at a TCEQ-approved facility. Decontamination of the Facility using a pressure washer and vacuum truck, with the full plan provided in **Attachment IIIA**.

Post-closure maintenance is not required by the current TCEQ rules.

5.2 Cost Estimate for Closure 30 TAC §330.505

Closure Cost Estimates have been prepared in accordance with 30 TAC §330.505 and documentation required to demonstrate financial assurance as specified in 30 TAC §330.63(j), included as **Attachment IIIB**.

The estimated cost for closure is **$10,000** in 2025 dollars.

A calculation for the engineering costs associated with the closure is included in **Attachment IIIB**. No dismantling of the concrete pad or drainage structures will be conducted at closure. No changes to the site elevations at closure will occur that will affect the final contour map.

5.3 Closure Plan Activities 330.63(f)(3)-(4)

The facility will begin closure activities for each unit no later than 30 days after the final receipt

of waste. The facility will complete closure activities in accordance with the approved closure plan within

180 days following the initiation of closure activities.

5.4 Closure Documents and Inspection 330.457 (f)(6)

Following completion of closure activities, the facility will submit all required documents. Once received, an inspection report will be conducted from the agency's regional office to verify proper closure of the facility according to the approved closure plan.

PART III NOT APPLICABLE SECTIONS

330.63(f)(7)(A)

330.457(f)(3)

330.457(f)(4)

330.457(f)(6)

PART III - FIGURES

III-3 General Process Flow Schematic

III-4 Detail of Processing Area Structure

Figure III-3

PROCESS	PROCESS DESCRIPTION/DETAILS
Receiving of Lime Slurry	Bulk lime slurry is received in from an approved supplier. Weight and pH is monitored upon receiving.This information is then transferred into our data base.
Bulk Slurry Lime Storage	Bulk lime slurry is temporarily stored in an approved holding tank for the lime stabilization treatment of domestic septage.
Receiving of Domestic Septage	Domestic septage will be delivered to the facility by customer pump trucks.A manifest will be provided by driver and all paperwork will be reviewed before product can be received in.
Septic Waste Tank	The septage will be pumped into facility via customers pump truck into the Facility's Septic Waste Tank. A flow meter will be used to measure gallons/per minute into the tank. All information will be entered into our database.
BAR(A) Screening	A bar screen (1/2 inch, carbon steele) at the top of the Facility's Septic Waste Tank is used to remove trash and other debris greater than 1/2 inch as septic flows into the Septic Waste Tank. The trash and other debris is manually removed from the top of the BAR (A) Screen once full.
Dumpster	The trash and debris manually removed from the top of the BAR (A &B) screens are placed into a dumpster, which is managed by a contracted waste company.
TCEQ Approved Landfill	The contracted waste company disposes of the septic waste and debris at a TCEQ-approved landfill
Transfer of Waste	Electric pumps will then move the septic waste through an additional bar screen and into the Pre-Treatment Tank

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BAR(B) Screening	A bar screen (1/4 inch, carbon steele) at the top of the Facility's Processing Tank is used to remove remaining minor trash and other debris greater than (1/4 inch) as septic flows into the Processing Tank. The remaining minor trash and other debris is manually removed from the top of the BAR (B) Screen once full and also placed in the dumpster for disposal by a contracted waste company and the waste company hauls it to a TCEQ Approved Landfill.
Processing Tank **(Addition of Lime)** **(Regulation Monitoring)** **(Treatment Plan)**	● Addition of Lime- Slurry lime is added to domestic septage for lime stabilization to properly neutralize sewage odors.The lime is pumped into processing tank with domestic septage and re-circulated via pumps for blending. ● A litmus paper/time test is performed and documented. pH will be checked and must remain above 12 on the pH scale for 30 minutes. ***This is a requirement.*** ● Treatment Plan- If pH is too low and fails to meet above standard, more slurry lime must be added.This corrective action will be documented.
Addition of Domestic Water Source *If needed.	Water is added if needed at two processing points (Bulk Slurry Lime Storage and at Processing Tank) as a further processing aid.
Final Treated Septic Waste Disposal-TCEQ Approved Land Application	Once treated septic waste pH meets listed requirements, the treated septic will be pumped onto a TCEQ approved BFU (Beneficial Land Unit) site.

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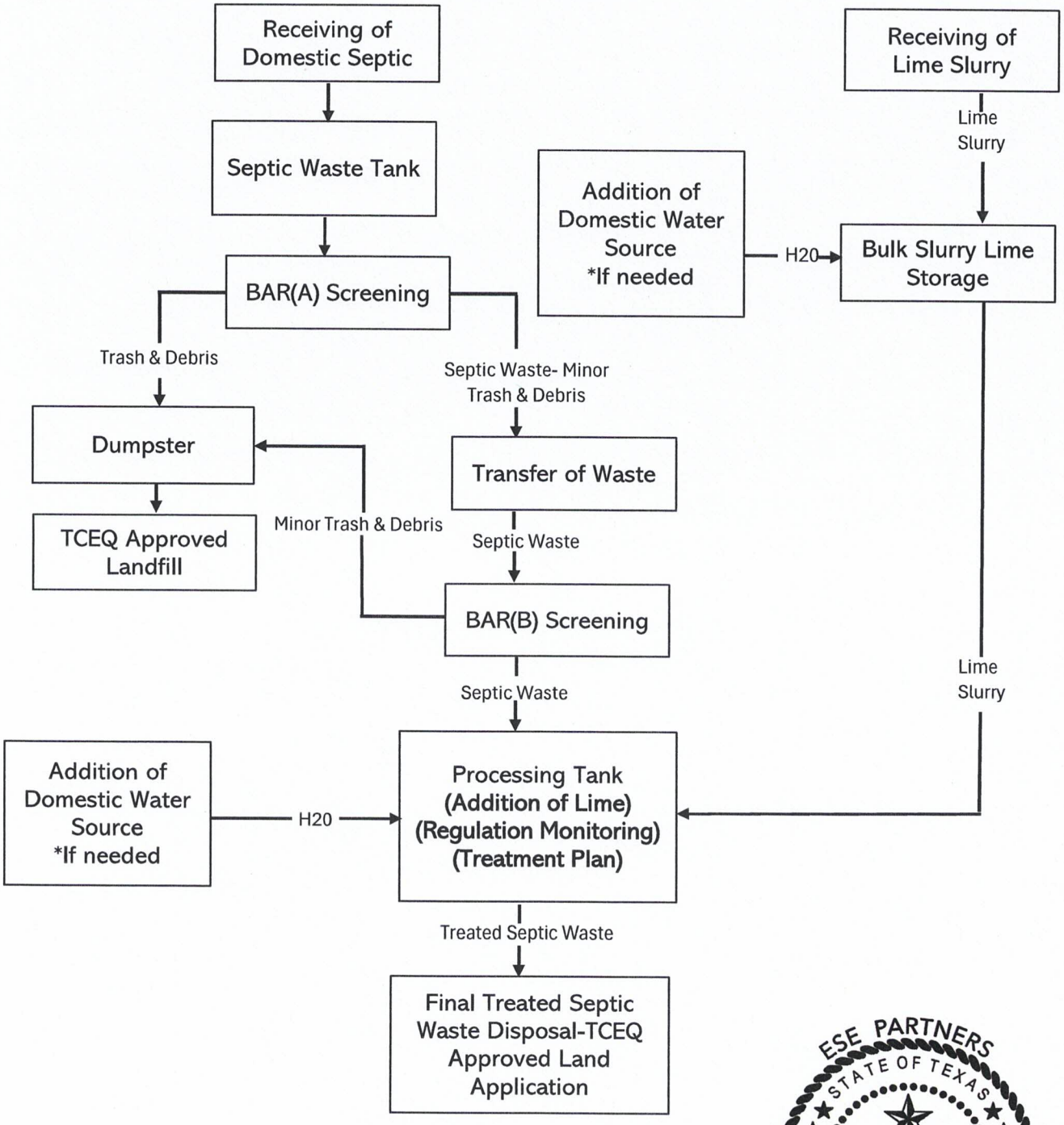
Figure III-4



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PART III – ATTACHMENTS

IIIA Closure Plan

IIIB Closure Cost Estimate

IIIC Stormwater Drainage Calculations

Attachment IIIA

Closure Plan

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1. Introduction 30 TAC §330.451

The applicability of closure and post-closure requirements in the 30 TAC Subchapter K is to all municipal solid waste (MSW) landfill units or MSW facilities as defined in §330.5.

Per §330.5(a)(3), an MSW facility – Type V is a solid waste processing facility that include processing plants that transfer, incinerate, shred, grind, bale, salvage, separate, dewater, reclaim, and/or provide other storage or processing of solid waste. The Austin County Waste Solutions Facility is classified as a municipal solid waste facility under this definition.

The following Closure Plan for the facility has been prepared in accordance with the Closure Requirements for Municipal Solid Waste Storage and Processing Units.

2. Closure Requirements

The following sections of the Closure Plan summarize the steps by the Facility to ensure compliance with the closure requirements for the certifications of final Facility closure 30 TAC §330.461.

2.1 Notifications 30 TAC §330.461(a)

No later than 90 days prior to initiating final closure, 7 R Solutions, LLC will, through a public notice in the newspaper(s) of largest circulation in the vicinity of the Facility, provide public notice for final Facility closure. This notice will include the name, address, and physical location of the facility, the registration number, and the last day of intended receipt of materials at the Facility. The Facility will also make available an adequate number of copies of the approved closure plan for public access and review. The owner or operator will also provide written notification to the executive director (ED) of the TCEQ no later than 90 days prior to the intent to close the Facility and place this Notice of Intent in the Facility's operating record.

2.2 Signage and Access Control 30 TAC §330.461(b)

Upon notification to the ED, the Facility will post a minimum of one sign at the main entrance and all other frequently used points of access for the Facility notifying all persons who may utilize the Facility of the date of closing for the entire Facility and the prohibition against further receipt of waste materials after the stated date. Further suitable barriers at all gates or access points will be installed to adequately prevent the unauthorized
dumping of waste at the closed Facility.

2.3 Implementation of Closure Plan 30 TAC §330.459(a)

The closure plan for the Facility is to dispose of all liquid septage and decontaminate the process unit Septic Waste Tank and Processing Tanks, and solid waste shall be removed by a contracted trash service (solid debris) to Approved TCEQ Landfill. All waste materials on-site will be removed and disposed of at a TCEQ-authorized facility. The trash tanks and processing tanks will be decontaminated using a high-pressure washer.

2.4 Waste and Material Removal and Disinfection 30 TAC §330.459(b)

A Site inspection and review of the Closure Plan and other applicable documents will be conducted prior to closure initiation to determine the necessary closure activities. All materials on-site, whether in process or processed, will be moved to a TCEQ-authorized Facility by an authorized transporter. All processing areas will be decontaminated. If required, vector control procedures will be implemented, such as treatment by
pest control.

2.5 Evidence of Release 30 TAC §330.459(c)

The facility and its operations are designed to minimize any releases by the facility. However, if there is evidence of a release from the facility, the ED of the TCEQ may require an investigation into the nature and extent of the release and an assessment of measures necessary to correct an impact to groundwater. Any waste that is not readily identifiable as domestic septage will be sampled, tested, and classified. Verification, re-sample and laboratory analyses will be performed, as necessary.

2.6 Combustible Material 30 TAC §330.459(d)(1) and (2)

The facility will not accept combustible material.

3. Certification of Final Facility Closure 30 TAC §330.461(c)

The following submittals will be made to the executive director of the TCEQ by registered mail within 10 days after the completion of all final closure activities for the Facility.
The owner or operator will submit for review and approval, a certification, signed by an independent licensed professional engineer, verifying that final Facility closure has been completed in accordance with the approved closure plan. The submittal will include all applicable documentation necessary for certification of final Facility closure. The owner or operator will submit a request for voluntary revocation of the Facility registration in accordance with 30 TAC §330.461(c)(3) and place a copy in the Facility's operating record.
Per §330.457(f)(6), following receipt of the required final closure documents, as applicable, the commission's regional office will conduct an inspection and provide a report verifying proper closure of the Facility according to the approved Closure Plan before termination of operation and closure of the Facility will be acknowledged and the Facility deemed properly closed.

4. Post-Closure Land Use 30 TAC §330.63(b)

All wastes and waste residues will be removed from the Facility upon closure. At the time of closure, the ED will be provided with documentation of waste removal and a request will be made that there be no restrictions to the post-closure use of the Facility related to its previous use as a municipal solid waste liquid process facility.

PART III – ATTACHMENTS

Attachment IIIB
Closure Cost Estimate

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1. Closure Cost Estimate 30 TAC §330.505

1.1 Introduction

The Closure Cost Estimate has been prepared in accordance with 30 TAC §330.505. Current TCEQ rules do not require post-closure maintenance for the facility.

The estimated cost for closure is $10,000 in 2025 dollars.

1.2 Description of Closure Cost Estimate Activities §330.63(j) Chapter 37, Subchapter R

A copy of the financial assurance will be submitted to the TCEQ within sixty days prior to the receipt of waste under this Registration Application (RA). A closure cost estimate for the Facility is provided in Table III B-1. The closure cost estimate assumes third party closure of the Facility including removal and disposal of two days of waste received at Facility at the maximum daily volume anticipated. Decontamination of processing area will be conducted. The cost closure estimate assumes third party rental of all equipment for closure purposes. It is understood that the cost estimate and financial assurance must be increased if conditions change which increase the closure cost during the life of the Facility. Also, the value of the cost closure estimate must be annually adjusted for inflation per 30 TAC §37.131, and the value of this adjustment will be provided to the TCEQ within thirty days after the annual anniversary date of the insurance of the registration document for the Facility. Additionally, it is understood that financial assurance must be maintained until closure is approved by the executive director (ED). A reduction in the closure cost estimate and the amount of financial assurance, in accordance with 30 TAC §330.505(a)(4), may be applied for provided written detailed justification for the closure cost estimate and the reduced amount of financial assurance is submitted to the ED.

1.2.1 Cost Estimate to Closure Recycling Facility Stores Combustible Materials Outdoors §330.505(a)(1)

The facility will not accept combustible material, therefore, §330.505(a)(1) is not applicable.

1.2.2 Closure Cost Estimate Equals Costs of Closure of Facility, Including Disposition of Maximum Inventories, Processed and Unprocessed Combustible Materials Stored Outdoors §330.505(a)(2)(A)

The Closure Cost Estimate provided in Table III B-1 assumes disposal of two days of waste received at Facility at the maximum daily volume anticipated, and decontamination of the process area.

1.2.3 Closure Cost Estimate Based on Costs of Hiring a Third Party, and Per Cubic Yard and/or Short Ton Measure for Collection and Disposition Costs §330.505(a)(2)(B –C)

The Closure Cost Estimate assumes third-party closure of the Facility including removal and disposal of two days of waste received at Facility at the maximum daily volume anticipated, and decontamination of the process area. The Closure Cost Estimate assumes third-party rental of all equipment for closure purposes.

1.3 Financial Assurance

Continuous financial assurance coverage for closure must be provided until all requirements of the Closure Plan are completed and the site is determined to be closed in writing by the TCEQ. The estimated closure cost based on the above considerations is $10,000 in 2025 dollars. A copy of the required documentation to demonstrate financial assurance shall be submitted prior to the new process and storage provisions of this registration application amendment being implemented.

1.3.1 Closure Cost Estimate & Financial Assurance to Be Increased During Active Life of Facility §330.505(a)(3)

It is understood that the cost estimate and financial assurance must be increased if conditions change which increase the closure cost during the life of the Facility. Also, the value of the closure cost estimate must be annually adjusted for inflation per 30 TAC §37.131, and the value of this adjustment will be provided to the TCEQ within thirty days after the annual anniversary date of the issuance of the registration application document for the Facility.

1.3.2 Reduction in Closure Cost Estimate and Amount of Financial Assurance §330.505(a)(4)

A reduction in the Closure Cost Estimate and the amount of financial assurance, in accordance with 30 TAC §330.505(a)(4), may be applied for provided written detailed justification for the Closure Cost Estimate and the reduced amount of financial assurance is submitted to the ED. For this reduction in the cost estimate and financial assurance will be considered a permit modification.

1.3.3 Maintenance of Financial Assurance for Recycling Facilities Store Combustible Materials Outdoors §330.505(b)(1)

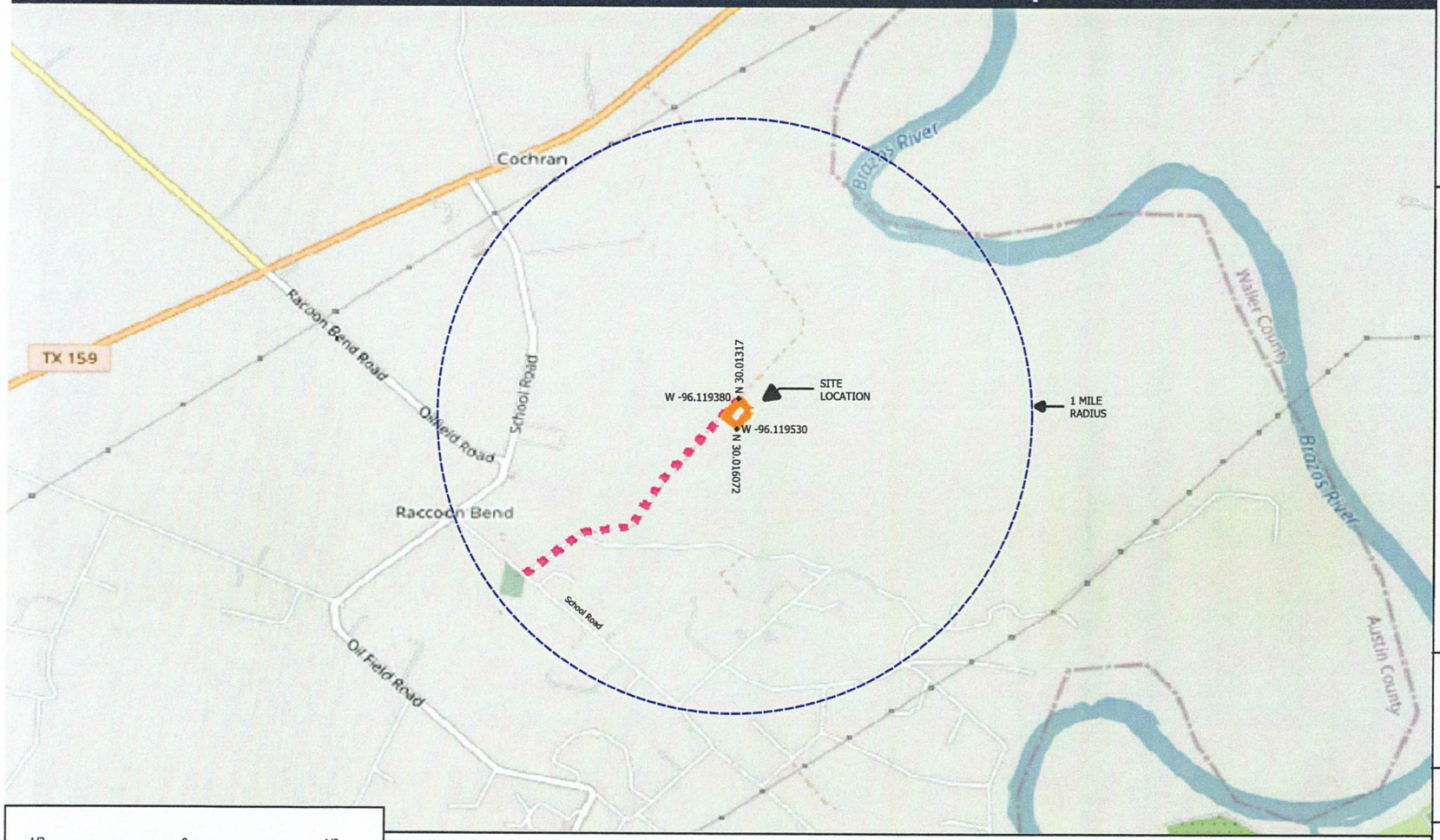
It is understood that financial assurance must be maintained until closure is approved by the ED. This is not required as Austin County Waste Solutions is not storing combustibles on this location.

1.3.4 Maintenance of Financial Assurance until Closure is Approved

§330.505(b)(2)

Additionally, it is understood that financial assurance must be maintained until closure is approved by the ED.

Austin County Waste Solutions- Site Location Map



1/2 0 1/2 MILES

REFERENCE(S)
BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION. TXDOT STATEWIDE PLANNING MAP 2025 OPEN STREET MAP. DOWNLOADED FROM https://www.txdot.gov/apps/statewide_mapping

Legend:

- Site Location Boundaries
- Access Road to Facility
- 1 Mile Radius

Seal:

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Title:
Site Location Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 1/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure
File: ACWS Liquid Processing Facility- Site Location Map.pdf	III-1

Legend:

- Property and Registration Boundary
- Access Road
- 1 Mile Radius

Seal:

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Title:

Topographical Map
AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN
Revised:	Figure:
File: ACWS Liquid Processing Facility-Topographical Map.pdf	III-2

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH. DATED MAY 2024.

2640 0 2640 Feet

TYPE V LIQUID PROCESSING REGISTRATION APPLICATION, PART IV REPORT

Austin County Waste Solutions

Type V Liquid Waste Processing Facility
Bellville, Texas
Austin County

Prepared by:

7 R Solutions, LLC
3655 Woodley Ln
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Intended for Permitting Purposes Only
December 2024

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1. Introduction to Part IV 30 TAC §330.65(a)

The Processing Facility will be a Type V Liquid Processing Facility operated by Austin County Waste Solutions LLC. In accordance with Title 30 of the Texas Administrative Code (30 TAC) Chapter 330, Subchapter B, §330.65, Contents of Part IV of the Application, a Site Operating Plan (SOP) is being submitted for the Facility. Regulatory citations noted throughout the SOP narrative refer to corresponding sections of the 30 TAC.

Per §330.65(a), this SOP has been prepared based on 30 TAC Chapter 330, Subchapter D & E, relating to Operational Standards for Municipal Solid Waste Landfill Facilities and Operational Standards for Municipal Solid Waste (MSW) Storage and Processing Units. The plan will provide general instruction to facility management and operating personnel for day-to-day operations of the facility. The SOP must be retained during the active life of the Facility. This document provides an operating guide for Facility management to maintain the Facility in compliance with the applicable regulatory requirements of the Texas Commission on Environmental Quality (TCEQ) or appropriate successor agency, to protect human health and the environment, and to prevent nuisances.

1.1 Reporting Requirements 30 TAC §330.675

Failure to achieve the minimum 10% recycled rate in any two quarters in a one-year period will cause a change in the facilities status and require the owner to obtain a permit to continue Facility operations.

The Facility shall submit an annual report to the Executive Director (ED) by November 10 of each year summarizing the recycling activities and percent of incoming solid waste that was recycled during the past calendar fiscal year. The fiscal year begins on September 1 and concludes on August 31. The report shall be a form furnished by the ED or reproduced from a form furnished by the ED. Reports may also be submitted by an electronic form or format furnished by the ED. A new form will be furnished by the ED annually, prior to the due date. Reports shall include, at a minimum:

• Facility operator's name, address, and phone number;

• Permit number, permit application number, or permit number;

• Facility type, size, and capacity;

• Volume of waste received reported in gallons received at the unloading dock;

• Percent solids (2%);

• Method of determining the percent solids that have been processed, disposed, and recycled or reused;

• Method used to achieve at least 10% recycling or reuse of incoming materials; and

Reconciliation of volume of waste with amounts documented on manifests, shipping documents, and/or trip tickets, and indicate where the recyclable material was taken for recycling.

1.2 Other Requirements 30 TAC §330.65(d)

The facility has applied for a no exposure (TPDES) Stormwater General Permit no. TXRNECL44. Since the proposed process facility will not perform vehicle or equipment maintenance activities, vehicle or equipment rehabilitation, mechanical repairs, painting, fueling, lubrication, or cleaning within the registration boundary of the Facility, the site is not subject to the requirements of the Texas Pollutant Discharge Elimination System (TPDES) Multi-Sector General Permit, as required by §402 of the federal Clean Water Act.

2. Waste Acceptance and Analysis 30 TAC §330.203

2.1 Waste Source and Characteristics 30 TAC §330.203(a)

The Process Facility will be authorized to receive permitted wastes as defined below. Domestic Septage will be the only waste accepted at the facility. Inorganics will be screened out and transported to a TCEQ approved landfill. Screened septage will be treated for lime stabilization and pH will be monitored. All processed septage will be recycled for beneficial land use.

It is expected that a typical unit of non-recyclable solid waste generated by the Facility would, at a maximum, remain on Facility for approximately seven days. The average length of time solid waste will remain on Facility is seven days. This (debris) is stored in a small dumpster which is scheduled to be picked up weekly and transported to an off-site TCEQ permitted landfill.

2.1.1 Acceptable Wastes

The facility will only accept Domestic Septage.

In accordance with 30 TAC 330.203(a), the source of these waste streams shall be from residential homes and commercial businesses that have an aerobic or conventional septic system.

<u>Limiting Parameters</u>

There are no limiting parameters such as TPH, metal concentrations, etc. for this application for a Type V Process Facility.

<u>Special Waste Receipt</u>

This Facility will not accept special waste. Therefore, this section does not apply to the Facility.

<u>Receipt of Industrial Waste</u>

This Facility will not accept industrial waste. Therefore, this section does not apply to the Process Facility.

2.1.2 Prohibited Wastes

The Facility will not accept the following wastes:

- Household garbage;
- Putrescible wastes;
- Special wastes;
- Special waste from health-care-related facilities;
- Municipal waste water treatment plant sludges, other types of domestic sewage treatment plant sludges, and water-supply treatment plant sludges;
- Grease and grit trap wastes;
- Wastes from commercial or industrial waste water treatment plants; air pollution control facilities; and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 Code of Federal Regulations (40 CFR), Part 261, Appendix VIII but has not been listed as a commercial chemical product in 40 CFR, §261.33(e) or (f);
- Slaughterhouse wastes;
- Dead animals;
- Pesticide (insecticide, herbicide, fungicide, or rodenticide) containers in accordance with 30 TAC §330.136(b)(5);
- Discarded materials containing asbestos;
- Incinerator ash;
- Soil contaminated by petroleum products, crude oils, or chemicals;
- Hazardous waste;
- PCB waste;
- Radioactive waste;
- Unknown chemical or containerized waste;
- White goods containing chlorinated fluorocarbons (CFCs);
- Used oil filters;
- Used oil;
- Class 1 non-hazardous industrial waste;
- Class 2 non-hazardous industrial waste; and
- Regulated Asbestos Containing Materials (RACM).

2.2 Waste Acceptance Rate, Storage, and Recovery 30 TAC §330.203(b)

2.2.1 Waste Acceptance Rate

Considering the average gallons of the incoming waste stream of approximately 3,500 gallons per truck and the average of 2,000 gallons domestic septage waste generated per household, the population equivalent served by the Facility is calculated as follows:

Population Equivalent = ((40,000 Gallons x 8.34 lbs per gallon) Daily /(2000 Gallons x 8.34 lbs per gallon per household/ day) x 30 lbs of solids debris/grease per household=600 lbs daily of debris

339,200 lbs of Septage/ 600 lbs of debris= 5,653 % recoverable by weight to recycle in beneficial land use.

The Facility will recover a minimum of 10% or more by weight of the incoming waste stream. The recovered waste streams (solid debris/grease) will be sent to a TCEQ approved landfill for disposal.

Treated septage will be processed and land applied daily. In the event of heavy rainfall and saturated soils the facility may stage the septage for no longer than 7 days.

2.2.1.1 Waste Acceptance by Waste Type

The waste amounts by waste types listed in Table IV-1 are only estimates and are not intended to be a limitation or constraint on waste acceptance at the site.

Table IV-1. Waste Acceptance by Waste Type

Waste Type	Estimated Daily Amount (as a percentage of Waste)
Domestic Septage	98%
Trash/Inorganics	2%
Total Waste	100%

2.2.2 Waste Storage and Processing

There will be no domestic septage stored at the facility. If a rain event occurs the facility may stage treated septage for no more than 7 days. The maximum capacity that can be staged is 40,000 gallons.

The maximum amount of inorganic waste to be stored at any one point in time at the Facility will equal the maximum capacity for a 3 cubic yard dumpster. All waste storage or holding will occur within the process area or within an enclosed container. No storage of waste materials will occur outside of the process area. The average time inorganic waste is anticipated to be held on Facility is one week and the maximum time waste is anticipated to be held on Facility is two weeks. The inorganic wastes will be sent to a TCEQ-authorized waste disposal facility within 50 miles of the Facility.

2.2.3 Waste Recovery Rate 30 TAC § 330.203(b) & 30 TAC §330.9(e)

Types of materials that the Facility will recover and recycle include, but are not limited to, the following:

• Domestic Septage

Unusable and Non-Recycled Materials

The following materials are expected to be unusable and/or non-recycled, once the waste stream has been processed through the Facility:

• inorganic waste

• All Other Wastes – All other wastes remaining after the waste stream has been processed by the Facility and is not categorized as either of the above categories, will be transported off-site to a landfill within 50 miles from the Facility.

2.2.3.1 Waste Recovery Quarterly Report 30 TAC §330.9(g)(1)

The facility will provide quarterly reports showing the recovery percentages of the incoming waste for each quarter. The reports will include volumes of wastes received and a summary of wastes processed, disposed, recycled or reused.

Records will be kept for solids and recyclable materials leaving the Facility in the form of manifests, shipping documents, or trip tickets. The quarterly report must include manifests, shipping documents, or trip tickets to show where the recyclable material was taken for recycling, and the recycled material must be reconciled with the volume of waste received.

Fats, oils, and greases recovered are not considered to be part of the 10% recovery of material for beneficial use. The recovery of water is not to be considered. Any material such as lime, polymer, or flocculant added as part of the recycling process is not allowed to be considered as part of the 10% recovery of material from the waste stream and must be subtracted from the material considered as recycled. Any material diverted from the waste stream without processing is not considered as part of the 10% recovery of material.

Failure to achieve the relevant 10 percent recycling rate in any two quarters within any one-year period will cause a registration to terminate and will require the owner or operator of the Facility to obtain a permit to continue facility operations.

2.2.4 Method Of Sampling & Analysis 30 TAC §330.203(c)(1)-(2)

Domestic Septage will be tested by a State Certified Laboratory. A TCLP will be performed annually to test for hazardous waste. Records of sampling and analysis will be maintained for a three year period. No Grit trap waste will be accepted, therefore this section of 330.203(c)(2) is not applicable.

3. Facility Operation Requirements

3.1 Facility-Generated Waste 30 TAC §330.205(a)

3.1.1 Characteristics and Concentrations of Wastes Generated by Facility 30 TAC §330.205(a)

The waste generated by the facility will be screened inorganics. The intended destination of the solid inorganic waste generated by the Facility (if any) is an authorized solid waste landfill. The Facility will maintain documentation in the operating record that all wastes leaving the Facility are being adequately managed by other licensed or permitted facilities. All wastes generated by the Facility will be processed or disposed of at an authorized solid waste management facility.

3.1.2 Manage Waste 30 TAC §330.205(b)

All wastes generated by the Facility will be processed or disposed of at an authorized solid waste management facility.

3.1.3 Manage Wastewater 30 TAC §330.205(c)

The office wastewater produced by restrooms and sinks will be connected to a 100-gallon tank and a grinder pump. The wastewater will be pumped daily into the trash tanks at the beginning of the process facility to be processed with the incoming loads. Wash water from cleaning the process area will be removed with a vacuum truck and unloaded back into the process facility on an as-needed basis.

3.1.4 Design and Operation of Facility for Produced Sludges 30 TAC §330.205(d)

No sludges will be produced by the Facility; therefore, this section is not applicable.

3.1.5 Contaminated Water Management-Water pollution Control 30 TAC §330.207(a)

The Facility will take the necessary steps to control and prevent the discharge of contaminated water from the Facility.

Surface drainage in and around the Facility will be controlled to minimize surface water running onto, into, and off the working areas. All liquid processing will be conducted within the facility process area (see Figures IV-3 and IV-4).

Potentially contaminated runoff is minimized by covering the processing area in this matter. All the process tanks will be enclosed. Polluted wash water generated by the Facility operations will be collected using vacuum trucks or similar equipment on an as-needed basis, and unloaded into the process trash tanks for processing.

3.1.6 Collect and Manage Contaminated Water 30 TAC §330.207(b)

Surface drainage in and around the Facility will be controlled to minimize surface water running onto, into, and off the process facility.

Potentially contaminated runoff is minimized by covering the processing area in this matter. All of the process tanks will be enclosed. Polluted wash water generated by the Facility operations will be collected using vacuum trucks or similar equipment on an as-needed basis, and unloaded into the process trash tanks for processing.

3.1.7 Clay or Synthetic liner Collection Units under 30 TAC §330.331(b) and 30 TAC §330.207(b)

Since this is an application for a Type V Liquid Processing Facility, this section is not applicable.

3.1.8 One Foot of Freeboard for 25-Year, 24-Hour Rainfall Event for Contaminated Water 30 TAC §330.207(b)

The process facility is designed to contain water that may have contacted waste. Since the process is under a covered structure, it is not necessary to install a trench and sump for containment of the 24-hour, 25-year rainfall event with 1 foot of free board.

3.1.9 Use of Leachate & Gas Condensate is Prohibited 30 TAC §330.207(d)

The Facility will not discharge into a septic system.

3.1.10 Septic System 30 TAC §330.207(d)

The Facility will not discharge into a septic system.

3.1.11 Discharge Contaminated Water after Approval under Texas Pollution Control Discharge Elimination System Authority 30 TAC §330.207(e)

The Facility has obtained the TPDES Stormwater General Permit no. TXRNECL44 on February 15, 2025, for a no exposure certification. A copy of the TPDES Stormwater General Permit No. TXRNECL44 is included in **Part III, Attachment IIIC.**

3.1.12 Acknowledgement Discharge Wastewater Comply with 40 Code of Federal Regulations Part 403 30 TAC §330.207(f)(1)

The Facility obtained the TPDES Stormwater General Permit no. TXRNECL44 on February 15, 2025, for a no exposure certification. This Facility will not discharge any Wastewater under the Texas Water Code, Chapter 26 and will comply with the requirements of 330.207(f). A copy of the TPDES Stormwater General Permit No. TXRNECL44 is included in **Part III, Attachment IIIC.**

3.1.13 Effluent Standard for Oil and Grease Concentration 30 TAC §330.207(g)

No grease, oil, or sludge will be accepted by the Facility; therefore, this section is not applicable.

3.1.14 Prohibited Storage Units 30 TAC § 330.207(h)

Lagoons, open-top storage tanks, open vessels, and underground storage units are prohibited at the facility. The facility will have no storage and will be covered.

3.2 Storage Requirements

3.2.1 Solid Waste Storage 30 TAC §330.209(a)

The Facility is authorized to receive permitted wastes as identified in Section 2.1.1. Trucks transporting septage proceed through the Facility's gated entrance off School Road and traverse the gravel driveway until they reach the process area. A schematic of the process area is shown on Figure IV-3. All septage received and processed at the Facility will not be stored. Septage will be screened and processed daily. The screened inorganics will be placed into a dumpster to be transported to a TCEQ approved landfill. Inorganic waste will be held for 7 days to a maximum of 14 days. The dumpster will be enclosed and located inside the covered processing area.

Trained personnel will monitor all incoming loads of septage waste and will be trained to become familiar with the rules and regulations governing the various types of waste that can or cannot be accepted by this Facility. Septage waste unloading will be limited to the concrete surfaced waste processing area.

3.2.2 On-Site Storage Area for Source Separated or Recyclable Materials 30 TAC §330.209(b)

Septage will be processed and recycled for beneficial land application daily. The screened inorganics will be placed in a dumpster to be transported to a TCEQ approved landfill. Septage will not be stored at the facility.

3.2.3 Putrescible or Liquid Waste 30 TAC §330.209(c)

No putrescible or liquid waste will be accepted by the Facility; therefore, this section is not applicable.

3.3 Approved Containers

3.3.1 Container Design 30 TAC §330.211

The process facility will not accept food wastes, therefore, this section is not applicable.

3.3.2 Non-Reusable Containers 30 TAC §330.211(1)

The process facility will not accept food wastes, therefore, this section is not applicable.

3.3.3 Reusable Containers 30 TAC §330.211(2)

The process facility will not accept food wastes, therefore, this section is not applicable.

3.3.4 Emptied Containers 30 TAC §330.211(2)(A)

The process facility will not accept food wastes, therefore, this section is not applicable.

3.3.5 Design Containers to Prevent Spillage/Leakage during Storage, Handling, and Transport 30 TAC §330.211(2)(B)

The process facility will not accept food wastes, therefore, this section is not applicable.

3.4 Citizen's Collection Stations 30 TAC §330.213(a)-(b)

The Facility does not serve as a Citizen's Collection Station. Therefore, the requirements of §330.213 do not apply to this Registration Application.

3.5 Stationary Compactors 30 TAC §330.215(1) and (2)

The Facility does not have any stationary compactors; therefore, this section is not applicable.

4. Recordkeeping and Reporting Requirements 30 TAC §330.219

4.1 General Requirements

4.1.1 Maintain Copy of Permit/Registration/Application in Site Operating Record 30 TAC§330.219(a)

During the operating life of the Facility, the Operations Manager, Maintenance and Administrative Supervisors, or Maintenance and Administrative Supervisors designees will maintain a written Operating Record. Consistent with §330.219, copies of documents that are part of the approved permit process that are considered part of the Operating Record are listed in **Table IV-2.**

All information contained in the Operating Record will be made available during normal working hours for inspection by the ED of the TCEQ or his/her representatives. The Operating Record will be maintained at the Facility during Facility operations and will be made available for inspection by

any officer, employee, or a representative of the TCEQ. Similar access to these records, plans, and data will be granted to duly authorized representatives of local governmental agencies acting under specific statutory authority with respect to this Facility (e.g., Austin County personnel).

4.1.2 Operating Record 30 TAC §330.219(b) (1) – (7)

The Facility, in accordance with §330.219(b), will promptly record and retain in the Operating Record for items listed in **Table IV-2.**

Table IV-2. Operating Record – 30 TAC §330.219(b)

Records to be Maintained in the Site Operating Record	Frequency	Rule Citation
MSW Registration No. *****	Once	§330.219(a)
Approved RA for MSW Registration No. *****	Updated as permit modifications are approved	§330.219(a)
SOP	As updated	§330.219(a)
Other required plans or related documents	As updated	§330.219(a)
Location restriction demonstrations	As updated	§330.219(b)(1)
Inspection records and training procedures	Per occurrence	§330.219(b)(2)
Closure plans and any monitoring, testing, or analytical data relating to closure requirements	As required	§330.219(b)(3)
Cost estimates and financial assurance documentation relating to closure	Annually	§330.219(b)(4)
Correspondence and responses relating to Facility operation, registration modifications, approvals, and technical assistance	Per occurrence	§330.219(b)(5)
Other documents specified in the registration or by the Executive Director)	As required	§330.219(b)(7
Trip tickets as required by §312.145(b)(2)	Per occurrence (retained for 5 years)	§330.219(b)(8)
Dates, times, and durations of alternative operating hours	As required	§§330.219(g) and 330.229(d)

Inspection records and training procedures relating to fire prevention and Facility safety	As needed	§330.221(c)
Personnel training records and detailed job descriptions	As needed	§330.219(b)(2)
Records to justify on a quarterly basis that the relevant percentage of the incoming waste is processed to recover recycled products	Quarterly and Annually	§330.219(b)(9)
Load inspection records	Per occurrence	§330.203
Personnel operator licenses	As needed	§330.219(b)(2)
All Site inspection and maintenance documentation – Facility Inspection and Maintenance Schedule	As required	§330.223 – §330.243
A record of each unauthorized material removal event	Per occurrence	§330.225
Documentation that all wastes leaving the Facility are being adequately managed by other licensed or permitted facilities	As needed	§330.205(a)
An as-built set of construction plans and specifications	After completion of construction	§330.219(a)

4.1.3 Signatory for Report 30 TAC§330.219 (c)(1)(A) – (C)

The Facility personnel will sign all reports and other information requested by the ED as described in §305.44(a) or by an authorized representative of the Facility. For a person to be an authorized representative of the Facility, the authorization must:

1. Be made in writing as described in §305.44(a),

2. Specify either an individual or a position having responsibility for the overall operation of the Facility, and

3. Submitted in writing to the ED.

If an authorization is no longer accurate because of a change in individuals or position, a new authorization must be submitted to the ED prior to or with any submittal to be signed by an authorized representative. Any person signing a report will make the certification included in §305.44(b).

4.1.4 Submit Authorization to Sign No Longer Accurate New Authorization 30 TAC§330.219 (c)(2)

If an authorization is no longer accurate because of a change in individuals or position, a new authorization must be submitted to the ED prior to or with any submittal to be signed by an authorized representative.

4.1.5 Certification in 30 TAC §305.44(b) by Person Signing Report 30 TAC§330.219 (c)(3)

Any person signing a report will make the certification included in §305.44(b).

4.1.6 Annual Reporting 30 TAC §330.219(d)(2)-(3)(d)

All lab testing results will be kept in the site operating record. Copies of the reports will be kept in the site operating record for 5 years.

4.1.7 Notification 30 TAC§330.219 (e)

The Facility, in accordance with §330.219(e), will furnish the Operating Record to the ED upon request and will be made available at all reasonable times at the Facility for inspection by the ED.

4.1.8 Record Retention 30 TAC§330.219 (f)

In accordance with §330.219(f), the Facility will retain all information contained within the Operating Record of the Facility and all plans required for the Facility for the life of the Facility until after certification of closure.

4.1.9 Alternative Schedules 30 TAC§330.219 (g)

The ED, in accordance with §330.219(g), may set alternative schedules for recordkeeping and notification requirements as specified in §330.219(g).

4.2 Personnel Training Records

Personnel training records will include the following information, at minimum:

• The job title for each position at the facility related to waste management and the name of the employee filling each job

• A written job description for each position related to waste management with education, or other qualifications, and duties of employees assigned to each position

• A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position related to waste management

• Records that document that the training or job experience required has been given to, and completed by, facility personnel.

Training records on current personnel must be kept until facility closure and training records on former employees must be kept for at least three years from the date the employee last worked at the facility.

5. Fire Protection 30 TAC §330.221

Per §330.221, the following requirements must be met for proper fire protection at the facility:

• An adequate supply of water under pressure must be available for firefighting purposes.

• Firefighting equipment must be readily available.

• A fire protection plan shall be established, and all employees shall be trained in its contents and use. This fire protection plan shall describe the source of fire protection (a local fire department, fire hydrants, fire extinguishers, water tanks, water well, etc.), procedures for using the fire protection source, and employee training and safety procedures. The fire protection plan shall comply with local fire codes.

The fire protection plan will be discussed in **Section 5.1**.

5.1 Fire Protection Plan 30 TAC §330.221(c)

The following steps will be taken regularly by designated Site personnel to prevent fires:

• Open burning of waste is prohibited;

• Equipment used at the Facility will be routinely cleaned through the use of water or steam cleaners. The water or steam cleaning will remove waste and caked material which can cause equipment overheating and increase fire potential;

• Fuel spills will be contained and cleaned up immediately;

• Smoking is not allowed in the working areas of the Facility. Smoking is confined to designated areas only, away from the receiving area, fuel stations, and other fire-sensitive areas; and

• The Facility is equipped with at least two strategically placed fire extinguishers. Each fire extinguisher will be fully-charged and ready for use at all times. Each extinguisher will be inspected on an annual basis and recharged, as necessary. These inspections will be performed by a qualified service company, and all extinguishers will display a current inspection tag. Inspection and recharging will be performed following each use. At a minimum, the office and applicable equipment will have fire extinguishers.

• The on-site water is supplied by a private water well system at a minimum pressure of 40 psi. this water source will be adequate for most small fires; and

• On-site hoses.

The fire protection plan is in compliance with local fire codes.

5.1.1 Procedures in the Event of a Fire 30 TAC §330.221(c)

The following general procedures will be taken in response to fires at the Facility:

1. Contact the Fire Department by calling 911. The City of Bellville Fire Department would respond if necessary;

2. Alert other Facility personnel;

3. Assess the extent of the fire, the possibility for the fire to spread, and alternatives for extinguishing the fire;

4. If it appears that the fire can be safely fought with available fire-fighting devices, attempt to contain or extinguish the fire until arrival of the Fire Department;

5. Upon arrival of the Fire Department, direct them to the fire, and provide assistance, if requested;

6. Do not attempt to fight a fire alone;

7. Do not attempt to fight a fire without adequate personal protective equipment (PPE);

8. Be familiar with the use and limitation of fire-fighting equipment; and

9. Fire-fighting methods include smothering the fire with soil, separating burning material from other waste, using on-site fire extinguishers, and the on-site water supplied by community water system. If detected soon enough, a small fire may be fought with a hand-held extinguisher. Fire extinguishers will be located at the main office and on major operating equipment i.e., tractor. For small fires, the fire area should be watered or otherwise controlled to ensure that the fire is out or does not spread to adjacent areas.

Specific Fire-Fighting Procedures

The following procedures will be followed in the event of a fire:

1. If a fire is observed on stationary vehicle or piece of equipment, the first priority will be worker safety and getting all personnel safely away from the fire.

2. If the fire is on moving equipment, if possible, the vehicle or piece of equipment should be brought to a stop at a location away from any fuel supplies, solid wastes, and/or other vehicles. The driver will shut off the engine, engage the brake, or use some other appropriate method to prevent subsequent movement of the vehicle. In extenuating emergency circumstances, a driver may abandon the vehicle before it is safely secure. The Facility's primary safety concern is worker safety.

3. If a small fire is discovered in the waste processing area,

a. An attempt to isolate the burning waste should be implemented quickly prior to attempting to extinguish the fire;

b. Apply water from the on-site source, and/or use the on-site fire extinguisher to attempt to fight the fire.

c. If any of these options are not possible or are considered unsafe, the area should be cleared of personnel and a path cleared for the Fire Department.

5.1.2 Availability of Water for Firefighting Purposes 30 TAC §330.221(a)

The on-site water is supplied by the community water system at a minimum of 40 psi. The water source will be adequate for most small fires.

5.1.3 Fire Fighting Equipment 30 TAC §330.221(b)

Fire-fighting equipment provided at the Facility includes fire extinguishers. A minimum of 2 fire extinguishers will be provided at the Facility. Fire extinguishers will be fully charged and ready for

use at all times. Each extinguisher will be inspected and recharged, if necessary, as recommended by the manufacturer. A qualified service company will perform these inspections, and all extinguishers will display a current inspection tag. Inspection and recharging will also be performed following each use. At a minimum, the main building, and all heavy equipment and vehicles, will be equipped with fire extinguishers.

5.1.4 Fire Protection Training 30 TAC §330.221(c)

This training will involve the Operations Manager, Maintenance and Administrative Supervisors, and Equipment Operators. The purpose of the training is to review fire-fighting procedures, equipment, fire prevention methods, and PPE.

This training should help the Site personnel become familiar with the Facility operations and special techniques in preventing and minimizing the spread of fires. The following topics will be addressed:

• Fire Prevention;

• Fire Safety; and

• Fire Fighting Procedures; and

• Fire Extinguisher Use and Capabilities.

5.1.5 TCEQ Notification

After any fire (related to waste management activities that cannot be extinguished within 10 minutes of discovery) occurs, the TCEQ regional office will be contacted. The notification to the regional office will include:

• Contacting by telephone as soon as possible, but no later than 4 hours following fire discovery, and

• Providing a written description of the cause and extent of the fire and the resulting fire response within 14 days of fire detection.

The Facility will provide the appropriate TCEQ regional office as much information as possible regarding the fire and fire-fighting efforts, as soon as possible after fire occurs. The fire prevention and fire control procedures for the Facility will be revisited following the occurrence of a significant fire to determine if modifications are warranted.

5.2 Access Control

Access to the Facility will be limited to the entrance gate located on School Road. Vehicles entering the Facility property can be observed by the gatehouse attendant.

5.2.1 Facility Security 30 TAC §330.223(a)

Public access to the Facility will be limited to the gated Facility entrance. The Site Operator controls access and monitors vehicles entering and exiting the Facility. The Facility is fenced with a 4-foot chain linked or equivalent fence with a lockable gate.

Entrance to the Facility is monitored by Site personnel during Facility operating hours. Outside operating hours, the gate will be locked. Entry to the Facility will be restricted to designated personnel, appropriate subcontractors, approved waste haulers, TCEQ personnel, and properly identified persons whose entry is authorized by Facility management. Visitors may be allowed in the Facility only when accompanied by a Facility representative.

The Facility will comply with schedule and notification requirements in Table IV-3 for any access breach.

Table IV-3. Schedule and Notification Requirements for Access Breach

Requirements	Access Breach Repaired within 8 hours	Access Breach Not Permanently Repaired in 8 hours
Notify regional office of breach and repair schedule	not required	within 24 hours
Make temporary repairs	not required	within 24 hours
Make permanent repairs	within 8 hours	within schedule submitted to regional office in initial notice
Notify regional office when permanent repair completed	not required	within schedule submitted to regional Facility representative.

5.2.2 Access Road from Public Road 30 TAC §330.223(b)

Access to the Facility is from School Rd. The entrance to the Facility is located on the North side of School Rd. The two-lane gravel entrance has a gate that will be opened and unlocked during operating hours. Arriving trucks will enter through this gate and proceed down the gravel driveway towards the processing area for unloading.

Within the Facility, signs will be placed along the entrance road at an adequate frequency to guide users to the proper process facility area and which roads are to be used. Roads not being used for access will be blocked or otherwise marked for no entry. An open area just inside the Facility's entrance is wide enough to accommodate trucks/vehicles and their turning radii prior to dumping/unloading.

5.2.3 Vehicle Parking 30 TAC §330.223(b)

Vehicle parking for employees and visitors is provided inside of the Registration Boundary. No vehicles or equipment will be parked within the 50-foot buffer zone

5.2.4 Perimeter Control Fencing 30 TAC §330.223(c)

Facility security measures are designed to prevent unauthorized persons from entering the Facility, to protect the Facility and its equipment from possible damage caused by trespassers, and to prevent disruption of Facility operations caused by unauthorized Facility entry.

Unauthorized entry into the Facility is minimized by controlling access to the Facility with the perimeter fence and a locking gate at the entrance. The Facility is fenced with a 4-foot chain link or equivalent with a lockable gate. The gate will be locked when the Facility is not accepting waste.

5.3 Unloading of Waste Unloading Areas 30 TAC §330.225(a)

The Facility is authorized to receive permitted wastes as identified in **Section 2.2.1.** Trucks transporting septage proceed through the Facility's gated entrance off School Road and traverse to the Facility until they reach the covered process area. The schematics of the existing Facility, along with the Site Development Plan, are depicted on **Figure IV-1 and IV-2**. Loaded trucks with enclosed tanks may be staged outside of the process area for short periods of time awaiting access to the unloading lanes or for adequate free capacity in the waste processing area to develop such that they may unload.

Trained personnel will monitor all incoming loads of waste and will be trained to become familiar with the rules and regulations governing the various types of waste that can or cannot be accepted by this Facility. Septage unloading will be limited to the concrete surfaced unloading area.

Upon completion of the unloading operation, the transportation vehicles will immediately leave the facility. Facility personnel will direct traffic, as necessary, to expedite the safe movement of vehicles. Signs and barricades will prevent waste unloading in undesignated areas. Equipment Operators or other Facility personnel will observe the unloading of septage to ensure that prohibited wastes are not allowed and accepted by the Facility. If prohibited waste is observed in a waste load, the prohibited waste will be immediately returned to the transporter or generator of the waste. The general process flow schematic is shown in **Figure IV-3.**

5.3.1 Prevention of Indiscriminate Dumping 30 TAC §330.225(a)

Arriving trucks/vehicles will be directed to the process area by signs. These vehicles will deposit their loads and depart the Facility. No septic trucks will be allowed access to any other areas of the Facility other than the waste processing area. Site personnel will provide traffic directions as necessary to expedite the safe movement of vehicles. No septage unloading or Facility operations will occur within 50 feet of the registration boundary.

Within the Facility, signs will be placed along the road at a frequency adequate for users to be able to understand where the waste processing area is and which roads are to be used. Roads not being used for access to the waste processing area will be blocked or otherwise marked for no entry.

All Facility roadways are routinely watered and cleaned to control dust and mud accumulation.

5.3.2 Unacceptable Waste 30 TAC §330.225(a)

Trained personnel will visually inspect all incoming loads. Should any indication of prohibited wastes be detected, the Maintenance and Administrative Supervisors will be immediately summoned to conduct a more thorough evaluation of the load. Should any prohibited waste be confirmed or suspected, the entire load will be refused, and the driver will be instructed to depart the Facility. The Facility reserves the right to reject any load, regardless of the waste composition and without need of any justification or analytical support.

In addition to the above procedure, the inspection of incoming loads will be documented on a random basis. The Maintenance and Administrative Supervisors will be responsible for documenting the inspections, at a minimum of one inspection per week and a maximum of one inspection per day.

The Maintenance and Administrative Supervisors are required to maintain and include in the Facility Operating Record the following:

1. Load Inspection Reports;

2. Records of hazardous or PCB waste notifications (if detected)

3. Personnel training records.

Load Inspection Reports will be completed for each inspected load. The reports will include, at a minimum, the date and time of inspection, the name and address of the hauling company and driver, the type of vehicle, the size and source of the load, contents of the load, indicators of prohibited waste, and results of the inspection. A sample of the Inspection Report Form titled Monthly Inspection Report is included as **Figure IV-5.**

TCEQ notification is required whenever hazardous or PCB waste is detected. Records of the notifications will be kept in the Facility Operating Record and will include the date and time of notification, the individual contacted, and the information reported.

Personnel training records will be maintained in the Facility Operating Record and will include evidence of successful completion of the training, type of training received, and the name of the instructor.

5.3.3 Waste in Unauthorized Areas 30 TAC §330.225(b)

The unloading of waste in unauthorized areas is prohibited. Waste unloading will be controlled to prevent dumping in locations other than those specified by Facility management. Site personnel will relocate any wastes unloaded in unauthorized areas to the waste processing area.

5.3.4 Detention and Prevention of Unloading or Processing of Prohibited Waste 30 TAC§330.225(c)

The prohibited Waste Detection and Exclusion Program at the Facility include, at a minimum, the following steps:

1. Random inspections of incoming loads;

2. Certification by the hauler "Load Contains No Prohibited Wastes";

3. Records of all inspections;

4. Training for Facility personnel to recognize regulated hazardous and PCB waste;

5. Notification sent to the TCEQ of any incident involving the acceptance of prohibited waste at the facility;

6. Copies of the records for remediation of the incident by the hauler, the waste generator and/or the facility; and

7. Sufficient security measure to prevent the unauthorized entry and dumping of wastes.

5.3.5 Managing of Prohibited Waste 30 TAC §330.225(c)

Prohibited wastes detected during the inspection will not be accepted by the Facility and will be returned immediately to the generator. If the hauler is not available, the waste will be safely stored in an enclosed container until provisions for removal can be arranged. The prohibited waste will be isolated to prevent its mixture with waste accepted by the Facility. TCEQ notification is required whenever hazardous or PCB waste is detected.

If hazardous or PCB wastes are detected and the hauler is not available, a hazardous waste specialty contractor will be retained. The hazardous waste specialty contractor will characterize the waste and notify the hauler to remove the waste from the Facility. As soon as is practical, the hauler will be required to remove the hazardous or PCB waste from the Facility. Prior to removal, the hauler must obtain a United States Environmental Protection Agency (USEPA) identification number, package the waste in accordance with Texas Department of Transportation (TxDOT) regulations, and properly manifest the waste designating a permitted facility to treat, store, or dispose of the hazardous or PCB waste.

5.4 Spill Prevention and Control 30 TAC §330.227

Stormwater will be managed and controlled in accordance with Austin County regulations. The stormwater management system layout and design consider that stormwater from a 25-year, 24-hour event within the operations area will be contained and will be properly managed as described in the drainage calculation included **Part III, Attachment IIIC.**

Stormwater within the non-paved portions of the operations area will be managed by allowing these areas to drain as they naturally occur. As this is a 2 acre facility located in the middle of a 2,200 acre family ranch. The area (2,200 acres) immediately surrounding the Facility is pasture and hay field. It is not anticipated that stormwater will collect in the processing areas as this activity will occur under a roof. Because the processing area operations will be conducted under cover, the generation of potentially contaminated stormwater is greatly minimized.

In addition, Facility personnel will handle any sudden and non-sudden releases or spills as indicated in **Section 6.20.**

5.5 Site Operating Hours

5.5.1 Facility Operating Hours 30 TAC §330.229(a)

The Facility will receive and process waste from 7 a.m. to 7 p.m. Monday through Friday. **Figure IV-6** illustrates the Facility signage.

5.5.2 Waste Acceptance Hours and Operating Hours for Operating Heavy Equipment and Transporting Materials 30 TAC §330.229(a)

The Facility will receive and process waste from 7 a.m. to 7 p.m. Monday through Friday. **Figure IV-6** represents the Facility signage.

5.5.3 Alternative Operating Hours 30 TAC §330.229(b)

The Facility will receive and process waste from 7 a.m. to 7 p.m. Monday through Friday.

5.5.4 Site Operating Record of Alternative Operating Hours 30 TAC §330.229(d)

Hours of operation for incoming waste are Monday through Friday 7 a.m. to 7 p.m.

5.5.5 Additional Temporary Operating Hours 30 TAC §330.229(c)

If the Facility needs the additional temporary operating hours, the company will seek the approval of The commission's regional offices.

5.6 Facility Sign 30 TAC §330.231

An entrance sign will be displayed at the entrance gate to the Facility off of School Road (see **Figure IV 6).** This sign will measure at least 4 feet by 4 feet and will have lettering of at least 3 inches in height which states the name of the Facility, type of TCEQ MSW site, hours and days of operation, facility rules,TCEQ registration number, emergency 24-hour contact number, and emergency fire department contact number.

At the entrance of the Facility, three informative signs will be installed. The first sign will display the site rules, as detailed in **Figure IV-7**. Adjacent to it, there will be a sign indicating the types of waste prohibited at the Facility, referencing **Figure IV-8**. Lastly, a sign specifying the waste permitted at the Facility will be placed, corresponding to **Figure IV-9**. Additional traffic signs will be placed at locations within the Facility to adequately inform users of the location of the waste processing area and site rules.

5.7 Control of Windblown Material and Litter

5.7.1 Collect Windblown Waste and Litter 30 TAC §330.233(a) and a(2)

Windblown waste and litter resulting from operation will be collected at least once per day to minimize unsightly conditions and fire hazards on School Rd. Any noted waste materials that may have spilled from the waste hauling vehicles traveling to the Facility will be cleaned-up. The Maintenance and Administrative Supervisors will consult with the TxDOT concerning the clean-up of state highways and rights-of-way.

5.7.2 Control of Windblown Waste 30 TAC §330.233(a)(1)

Windblown wastes and litter will be controlled by combining several of the following means:

• All waste transportation vehicles using this Facility will be required to have enclosed tanks with working valves that do not leak. The adequacy of valves or containment methods for the incoming waste shipments will be checked at the Facility entrance. The Facility will take actions such as posting signs, reporting offenders to proper law enforcement officers, adding surcharges or other similar measures if leaking vehicles are observed entering the Facility.

• Processing (screening) operations will occur under a covered structure of the process area to minimize windblown materials.

• Windblown waste and litter resulting from operation will be collected at least once per day to minimize unsightly conditions and fire hazards on School Rd. Any noted waste materials that may have spilled from the waste hauling vehicles traveling to the Facility will be cleaned-up. The Maintenance and Administrative Supervisors will consult with the TxDOT concerning the clean-up of state highways and rights-of-way.

• The Facility will provide a wire or other type of fencing or screening when necessary to minimize windblown materials.

5.7.3 Minimize Windblown Waste 30 TAC §330.233(b)

The Facility will provide a wire or other type of fencing or screening when necessary to minimize on-site windblown materials.

5.8 Material Along Route to the Facility 30 TAC §330.235

The Facility will take steps to encourage vehicles hauling waste to the Facility are enclosed. The adequacy of containment methods for the incoming waste shipments will be checked at the Facility entrance. The Facility will take actions such as posting signs, reporting offenders to proper law enforcement officers, adding surcharges or other similar measures if leaking vehicles are observed entering the Facility.

The Facility will provide for the cleanup of waste materials spilled along and within the right-of-way of School Rd. Cleanup for the spilled materials will be performed at least once per day when the Facility is in operation. The Facility will consult with TxDOT, county, and/or local government officials concerning cleanup of roads and rights-of-way consistent with §330.235.

5.9 Facility Access Roads Weather Access Road 30 TAC §330.237(a)

Access to the Facility is from School Rd, which will be accessed from Oil Field Rd. The entrance to the Facility is located on the northside of School Rd. The entrance has a gate that will be opened and unlocked during operating hours. Arriving trucks will enter through this gate and proceed down the gravel driveway towards the processing area for unloading. An open area just inside the Facility's entrance is wide enough to accommodate trucks/vehicles and their turning radii prior to dumping/unloading.

Arriving trucks/vehicles will be directed to the process area by signs. These vehicles will deposit their loads and depart the Facility. No private or commercial solid waste vehicles will be allowed access to any other areas of the Facility other than the waste processing area.Site personnel will provide traffic directions as necessary to expedite the safe movement of vehicles.

All on-site roadways will be maintained on a regular basis to minimize depressions, ruts, and potholes. Within the Facility, signs will be placed along the road at a frequency adequate for users to be able to understand where the waste processing area is, and which roads are to be used. Roads not being used for access to the waste processing area will be blocked or otherwise marked for no entry. All site roadways are routinely watered and cleaned to control dust and mud accumulation.

5.9.1 Dust Control 30 TAC §330.237(b)

All Site roadways are routinely watered and cleaned to control dust and mud accumulation.

5.9.2 Depression, Ruts, and Potholes 30 TAC §330.237(c)

All on-site roadways will be maintained on a regular basis to minimize depressions, ruts, and potholes.

5.10 Noise Pollution and Visual Screening 30 TAC §330.239

All Facility operations are distanced from public view or access. The actual processing area of the Facility is located in the covered structure, which minimizes visual and noise pollution.

5.11 Overloading and Breakdown 30 TAC §330.241

5.11.1 Design Capacity 30 TAC §330.241(a)

The design capacity of the liquid waste processing Facility will not be exceeded during operation. The Facility will not accumulate septage in quantities that cannot be processed within such a time as to avoid the creation of adverse conditions such as odors, insect breeding, or harborage of other vectors. If such accumulations occur, additional septage will not be received until the adverse conditions are abated.

In the event the Facility becomes inoperable for periods longer than 24 hours, the Facility will restrict the receipt of septage to the Facility and the incoming waste stream will be diverted to another facility registered with the state. If the work stoppage is anticipated to last long enough to

create objectionable odors, insect breeding, or harborage of vectors, steps shall be taken to remove the accumulation of septage from the Facility to an approved backup processing or disposal facility.

5.11.1 Design Capacity 30 TAC §330.241(a)

5.11.1.2 Storage Procedures 30 TAC §330.241(a)(1)

No storage will occur at the facility. Septage may be staged up to 7 days as needed for land application.

5.11.3 Inoperable Facility 30 TAC §330.241(c)

If the process facility operation becomes inoperable for a period greater than 24 hours, all septage vehicles will be directed to proceed directly to another process facility registered with the state. If the work stoppage is anticipated to last long enough to create objectionable odors, insect breeding, or harborage of vectors, steps shall be taken to remove the accumulation of solid waste from the Facility to another facility registered with the state.

5.12 Sanitation 30 TAC §330.243

5.12.1 Inoperable Facility 30 TAC §330.243(a)

The waste receiving area will be cleaned on a daily basis at the completion of processing during the process facility operations. Cleaning operation will consist of washing the process area. The lanes, where the incoming waste is unloaded, will be washed down at least twice weekly.

5.12.2 Accumulation of Wash Water 30 TAC §330.243(b)

Wash down liquids will be collected within confines of the process area for proper handling to prevent the creation of odor or attraction to vectors, as indicated in **Section 3.1.5**

5.12.3 Collection and Disposal of Wash Water 30 TAC §330.243(c)

Wash water will be collected and handled as indicated in **Section 3.1.5**.

5.13 Ventilation and Air Pollution Control Air Emissions 30 TAC §330.245(a)

5.13.1 Air Emissions 30 TAC §330.245(a)

No significant air pollution emissions are expected to result from operations of the Facility. In accordance with 30 TAC §330.245(a), air emissions will not cause or contribute to a condition of air pollution as defined in the Texas Clean Air Act.

5.13.2 Obtain Required Authorizations under Chapter 116 or Subchapter U from Air Permits Divisions 30 TAC §330.245(b)

In accordance with 30 TAC §330.245(b), the Air Permits Division of the TCEQ has been contacted to obtain the necessary Standard Air Permits.

5.13.3 Odor-Retaining Containers and Vessels 30 TAC §330.245(c)

All waste processing will occur within the covered process area. The facility will only accept domestic septage. The trucks delivering the septage will be enclosed and unload into an enclosed process. Additionally, no storage will occur at the facility; therefore 30 TAC §330.245(c) is not applicable.

5.13.4 Ventilation and Nuisance Odors 30 TAC §330.245(d)

In accordance with 30 TAC §330.245(d), the Facility will be designed to keep all septage inside enclosed tanks to provide adequate odor control for employee safety.

The operator will prevent nuisance odors from leaving the boundary of the Facility. If nuisance odors are found to be passing the Facility boundary, the Facility will immediately take action to abate the nuisance. The Facility may be required to suspend operations until nuisance odors are abated. Odors are controlled by limiting processing operations to within the processing area.

5.13.5 Air Pollution Emission 30 TAC §330.245(e)

No air pollution control devices will be required because no emissions will result from the process facility operations. Thus, rule 30 TAC §330.245(e) is not applicable.

5.13.6 Measure/Equipment to Control Odor 30 TAC §330.245(f)(1) – (4)

Odors are controlled by limiting waste management operations to within the process area. The process area is located to provide a buffer zone from the property boundary in accordance with 30 TAC
§330.245(f)(2).

All other sections of 30 TAC §330.245(f) are not applicable. In the event that unacceptable odors do occur, the following procedures may be implemented:

• The Operations Manager, Maintenance and Administrative Supervisors will stop incoming loads of odor causing waste when detected;

• Install odor control system; or

• Retain an independent odor control specialist.

5.13.7 Process Areas 30 TAC §330.245(g)

Rule 30 TAC §330.245(g) is not applicable.

5.13.8 Air Exposure 30 TAC §330.245(h)

All process tanks will be enclosed. Waste vehicles unloading will be enclosed.

5.13.8 Reporting Emissions Events 30 TAC §330.245(j)

Reporting of emissions shall be made in accordance with §101.201 and reporting of scheduled maintenance shall be made in accordance with §101.211.

5.13.9 Ponded Water 30 TAC §330.245(k)

As part of routine Facility inspections, areas with ponded water will be remedied by draining or backfilling, as appropriate, in accordance with 30 TAC §330.245(k).

5.14 Employee Sanitation Facilities 30 TAC §330.249

Potable water and sanitary facilities will be provided for all employees and visitors. These facilities will be made available at the Process facility's office next to the process area.

6. Health and Safety Plan 30 TAC §330.247

Training for Facility personnel will include health and safety training.

Safety training for all personnel will be provided routinely and will be the responsibility of the operator. The operator will enforce safety rules and policies and will promptly investigate and report all accidents. Operators will wear personal protective equipment, such as gloves, safety glasses, and dust masks, when appropriate.

Detailed procedures that comprise the Health and Safety Plan for the facility are discussed below.

6.1 Emergency Preparedness

Preparedness and preventive measures will be implemented at the Facility to minimize both the frequency and severity of accidents and emergency situations threatening human health. These measures will largely depend on the attentiveness and state of readiness of facility personnel. All personnel will undergo in-house training to introduce the measure
below.

6.1.1 General Measures

The following general measures will be implemented for the Facility:

• Employee breaks or rest periods will be provided to minimize employee fatigue factor, improve alertness, and thereby reduce accident potential.

• Access controls will prevent entry of unauthorized personnel.

• Routine preventive equipment maintenance will be provided.

• Appropriate personnel safety equipment will be maintained onsite in good condition.

• Adequate turning areas for vehicles will be provided.

• Scavenging will not be allowed, and individuals will be required to stay close to their vehicles for their protection.

• Unloading will be restricted to designated areas only.

• Facility personnel will be on alert for possible prohibited wastes entering the Facility.

• Prohibited wastes will be controlled or contained and removed, as necessary.

6.1.2 Measures for the Unloading and Receiving Area

The following measures will be implemented within the unloading/receiving area of the Facility:

• Trained personnel will observe waste discharge and randomly inspect loads according to procedures set forth in this SOP.

• Observation of incoming vehicles will be performed for evidence of improper operation, faulty equipment, or other conditions that could be detrimental to the Facility personnel or other persons onsite.

• Emergency equipment will be available, and a first-aid kit maintained in the Facility.

• Emergency telephone numbers will be displayed.

• Signs will be displayed warning transporters that hazardous wastes and PCB, radioactive, and other prohibited wastes are not accepted.

6.2 Emergency and Contingency Procedures

Emergency and contingency procedures will be implemented at the Facility in the event of accidents or environmentally significant releases of waste or waste constituents to air, soil, surface water, or groundwater. These procedures constitute an initial response by Facility staff that will be supplemented, as necessary, by outside emergency services. Emergency assistance requests will be handled through conventional means (calling 911).

The following situation-specific procedures are initially proposed and are subject to amendments, as required, based on experience gained with time.

6.2.1 Accidents

The procedures to address various types of accidents are discussed in the following sections.

6.2.1.1 General Procedures

For an incident involving a spill or release that requires notification, Facility personnel should:

1. Notify the appropriate federal or state agency affected by the release and report the following information:

A. Caller’s name and telephone number.

B. Name and address of the facility.

C. Time and type of release.

D. Name and quantity of material(s) involved (to the extent known).

E. Extent of injuries if any.

F. Possible hazards to human health or the environment outside the Facility.

2. Take appropriate measures to prevent the spreading or worsening of the situation.

3. Notify the Facility manager or designated representative of the details of the spill.

4. Make arrangements to collect, store, treat, or dispose of all recovered waste and clean-up residue.

5. Investigate possible methods of preventing recurrence of the incident.

6.2.1.2 Vehicular Accidents

If an accident involving vehicles or equipment occurs, Facility personnel should:

1. Determine whether personal injury has occurred; if so, follow the steps outlined **in Section 6.2.1.3**, which addresses personal accidents.

2. Determine whether the vehicle(s) can be safely moved under its own power.

A. If so, move the vehicle(s) out of the way of normal traffic flow.

B. If the vehicle(s) cannot move on its own power and is interrupting traffic flow, push the vehicle(s) out of the way using site equipment.

3. Notify the Facility manager or designated representative of the details of the accident.

4. Arrange to have any disabled vehicles towed from the Facility in accordance with specific instructions from the Facility manager or designated representative.

6.2.1.3 Personal Accidents

1. Determine the nature and extent of the injuries.

2. Administer basic emergency first-aid techniques if safe.

3. Call for outside emergency assistance (911).

4. Report incident to the Facility manager or designated representative.

5. Transport victim(s) to a professional medical care facility by conventional means if injuries require non-emergency medical attention.

6.2.2 Releases

The procedures to address various types of releases are discussed in the following sections.

6.2.2.1 Sudden Releases

For sudden releases of smoke, vapors, liquids, or unusual odors, facility personnel should:

1. Remove personnel from the area if safety is threatened.

2. Discontinue operation in the immediate area until authorized to resume.

3. Notify the Facility manager or designated representative, who will investigate the cause and correct it.

4. Notify the Facility manager or designated representative of the extent of the sudden release and prepare a plan of action to correct the problem.

6.2.2.2 Non-Sudden Releases

For non-sudden releases involving persistent odors or windblown waste, Facility personnel should:

1. Notify the Facility manager or designated representative of the non-sudden release and recommend actions to be taken

7. Site Personnel, Operational Requirements and Training

7.1 Site Personnel – Function & Minimum Qualifications of Key Personnel

§330.127(1)

Responsibility for overall management and operation of the facility will rest on the Operations Manager, and the Maintenance and Administrative Supervisors. These persons are responsible for assuring that adequate personnel and equipment are available to provide facility operations in accordance with this SOP and in adherence with TAC regulations. An organizational chart for the process facility is shown below. At least one person will be onsite at all times during operational hours that holds a current MSW Class B Supervisor's License. Typical staffing levels for the process facility are indicated in **Table IV-4**. The same individual may perform these functions provided that the minimum-staffing compliment listed in this section is available on site.

Organization chart

Operations Manager →/Equipment Operators

Table IV-4. Typical Staffing Levels

PERSONNEL CATEGORY	MINIMUM STAFFING	TYPICAL STAFFING
Operations Manager	1	1
Equipment Operators	1	1
Total	2	2

7.1.1 Operations Manager

The Operations Manager (OM) is responsible for overall management and the general direction of the facility and materials recovery operations. The OM is responsible for receiving incoming calls from customers, receiving manifests/trip tickets, and inspecting loads if necessary. The OM is responsible for maintaining all facility recordation.

The Operations Manager must hold and maintain a MSW facility supervisor's license in accordance with 30 TAC, Part 1, Chapter 30, Subchapters A and F and will have a minimum of six months of MSW facility operation experience or six months of on-the-job training. The Operations Manager must be familiar with the specific operating procedures set forth in this SOP and will participate in training with other employees. The OM have the authority to hire the necessary supervisory and operating personnel for the facility and to arrange or provide for their training and orientation. These individuals also ascertain equipment needs of the facility and initiate any purchasing, leasing, and renting of additional equipment. The OM may also engage outside contractors, as needed, to provide necessary supplemental equipment, services, or labor as deemed necessary for site operation. The OM are the designated regulatory contact individuals for the facility and are responsible for environmental compliance at the facility. The OM is responsible for maintaining all facility recordation.

7.1.2 Waste Spotter/Equipment Operator

Waste Spotter/Equipment Operator (WS/EO) is responsible for monitoring the unloading of waste shipments at the incoming waste staging area for prohibited wastes. Through training and experience, this individual will be able to recognize the physical characteristics of prohibited waste [hazardous waste, prohibited polychlorinated biphenyls (PCB) waste, or otherwise prohibited waste] and will be alert for these materials in incoming waste shipments. This individual will be responsible for monitoring and directing the unloading of vehicles at the facility. All improper operations, dangerous conditions, or receipt of prohibited wastes will be reported immediately to the Maintenance and Administrative Supervisors. The WS/EO will be on duty at the incoming waste processing area during regular working hours performing dual duties as the Equipment Operator and as the waste spotter. As the responsible employee for screening and processing the incoming septage, this employee will be able to visually monitor all incoming loads of waste. If the WS/EO is not available to monitor incoming waste streams, the Maintenance and Administrative Supervisors or another full-time employee will visually inspect each truckload of waste received by the facility until such time the WS/EO returns to the processing area for incoming wastes.

7.2 Site Personnel – General Instructions for Personnel Concerning Operational Requirements §330.127(3)

A comprehensive Personnel Training Program has been developed and will be employed throughout the operating life of the facility. This Training Program shall provide waste management procedures and operations training to employees who are assigned to, or have responsibility for, the process facility operation.

Training shall consist of both initial training and continuing training courses which shall provide instruction on current state and federal laws, TCEQ rules regarding septic waste management, facility operation and maintenance, environmental monitoring, public health and environmental protection, response to emergency situations, and facility design and construction.

7.3 Training – Applicable Training Requirements §330.586(a) & (c)

The two major objectives of the Personnel Training Program at the process facility are:

• To thoroughly train appropriate employees in the proper performance of their individual job duties, which pertain to waste management; and

• To prepare all appropriate employees to implement the proper emergency procedures effectively, if necessary.

To accomplish these objectives, both on-the-job training and formal instruction in waste management procedures, safety, emergency procedures, legal requirements, and facility operations procedures are provided to personnel involved with the handling, transportation, and disposal of septic waste. Personnel shall receive training appropriate to individual needs as well as specific job duties and responsibilities within 6 months of employment or assignment to a new position. These personnel shall be trained to perform their duties safely and in accordance with the applicable requirements for waste management. The training program shall be designed to enable facility personnel to respond effectively to emergencies by familiarizing personnel with emergency procedures and equipment. Personnel must successfully complete the training program within 6 months of their employment or assignment to the facility. Additional supervision will be provided to personnel during training, and personnel activities will be limited during the training period.

The Personnel Training Program includes familiarization with regulations applicable to generators and transporters of prohibited wastes and provides general descriptive characteristics of prohibited wastes. Training personnel to recognize prohibited wastes in the incoming wastes will help prevent management at the facility. Personnel training will be performed by individuals experienced in waste management procedures and operations, safety, and related subjects.

Topics for training may vary but will be conducted annually for the following:

• Safety;

• Fire protection, prevention, and evacuation;

• Fire extinguisher usage;

- Emergency response;
- Litter control and windblown waste pick-up;
- Hazardous waste and PCB detection and control (waste screening, if applicable);
- Prohibited waste management;
- Random inspection procedure;
- Spill Prevention Control Plan; and
- Stormwater Pollution Prevention Plan.

The training program will also ensure that personnel, as appropriate for their position, are familiar with emergency procedures, emergency equipment, and emergency systems as response to fires or explosions.

The training shall be specific to the duties, tasks, and responsibilities of each employee's position. Experienced employees, or supervisors, who are knowledgeable of the requirements for satisfactory job performance, shall provide on-the-job training and monitor employee's progress. On-the-job training is progressive, typically beginning with demonstrations, and then followed by closely supervised practice. When the employee has demonstrated the ability to understand and perform the job and its related safety and emergency response functions, the supervisor acknowledges the satisfactory completion of the employee's on-the-job training by making an appropriate entry in the training records.

Successful completion of the appropriate training activities by an employee is required to fill an operator position, in addition to formal training. When an existing employee is transferred or promoted to a new position with training requirements that differ from the previous position, that employee undertakes any additional training required.

Training will include both introductory and continuing training as required by 30 TAC §335.586(c). Introductory training (4 hours minimum) provided to the Operations Manager, Maintenance and Administrative Supervisors, Gate House Attendant, Equipment Operators, Waste Sorters, Repackers, and Waste Spotters, will include safety training, emergency training, and training required to perform specific personnel assigned tasks. The frequency of continuing education and training activities will vary according to job title and position. Site personnel will be provided an annual review (2 hours minimum) of the initial training required for the position.

Proof of training, including firefighting and continuing training, shall be maintained at the facility and shall be available for inspection by TCEQ personnel and Austin County personnel.

7.3.1 Employee Training Documentation

Three types of personnel training documentation will be maintained:

1. Job title lists;
2. Job descriptions; and

3. Records of job training.

The first type of training documentation consists of job titles for all positions. This list contains the name of the person occupying each position and will be revised, as necessary.

The second type of training documentation is a job description for each position. Included in the general job description are any required education or experience, initial and continuing training required, and the job duties and responsibilities during emergency response, if any. The type and amount of introductory and ongoing training to be given for a particular position is also incorporated into the general job description.

Records of personnel training are the third type of training documentation. These records consist of a general facility-training file, which includes a record of each employee's training history. The general facility file contains a description of each formal training activity, the date(s), personnel who attended, and an indication of satisfactory accomplishment of training goals by each person. The same or similar information is included on an individual training record that is maintained for each person in the training program.

Annually, the Maintenance and Administrative Supervisors will review the training files against the personnel roster and job description training requirements to verify that the frequency and type of training required for each job is provided. This annual review will also demonstrate if the facility's training objectives are being met.

Training records on all former employees will be retained for a minimum of 3 years following termination of their employment. Training records on current employees will be kept until 3 years after facility closure.

7.3.2 Employee Training Records

The facility will maintain training records in the Site Operating Records to show the training provided to staff and management. These records will contain:

1. The general job title for each position at the facility and the name of the employees filling each position;

2. A description of the general job duties related to waste management for each position, including any prerequisite skills, education, or other qualifications and duties for each position;

3. A general description of the type and amount of both initial and continuing training given to employees filling each position; and

4. Records which document that the training or on-the-job experience required has been given to and satisfactorily completed by all appropriate facility personnel. **Table IV-5** presents a listing of site personnel and training summary.

Table IV-5. Site Personnel and Training Summary (ACWS, 2024)

Position	Orientation	Operations	Prohibited Waste Identification	Safety	Inspection	Emergency Resp	Quality Control	Random Inspections	PPE
Operations Manager	x	x	x	x	x	x	x	x	x
WP/EO	x	x	x	x	x	x	x	x	X

8. Site Equipment §330.127(2)

Sufficient equipment will be provided to conduct site operations in accordance with the design, SOP, and waste acceptance rates.

Table IV-6 below shows the following list of equipment that is expected to be routinely available for use at the Facility. Equipment requirements may vary in accordance with the waste acceptance rate at any given time. Additional equipment will be provided as required for increasing volumes of incoming waste. In case of breakdowns, backup equipment is available from the Facility. Other equivalent types of equipment by other manufacturers may be substituted on an as needed basis.

Table IV-6. Facility Equipment List

Equipment	Typical Size(1)	Function
Tractor(2)	Various makes and types	Move heavy objects around facility. Grading Roadway. Pulling water trailer for dust control. Also used for Land Application.
Dumpster/Roll-Off Containers	Up to 40 yd	Storing inorganic materials in the process area prior to hauling
Skid Steer with bucket and sweeper	Bucket and sweeper	Planning to purchase in the near future.
Pump (Qty 4)	T4, Electric	For moving liquid through the process

Pressure Washer (Qty 1)	Portable	For wash down of process area
Vacuum Truck (3rd party)	Portable	For removing liquid from spills and cleaning trash tanks.

Part IV NOT APPLICABLE SECTIONS

330.203(c)(1)

330.203(c)(2)

330.219(d)

330.219(d)(2)

330.219(d)(3)

Type V Liquid Processing Facility Registration Application

7 R Solutions, LLC

PART IV – FIGURES

IV-1 Site Development Plan – Existing Site Layout

IV-2 Site Development Plan – Proposed Site Layout

IV-3 General Process Flow Schematic

IV-4 Detail of Processing Area Structure

IV-5 Monthly Site Inspection Form

IV-6 Facility Sign

IV-7 Sign Displaying Site Rules

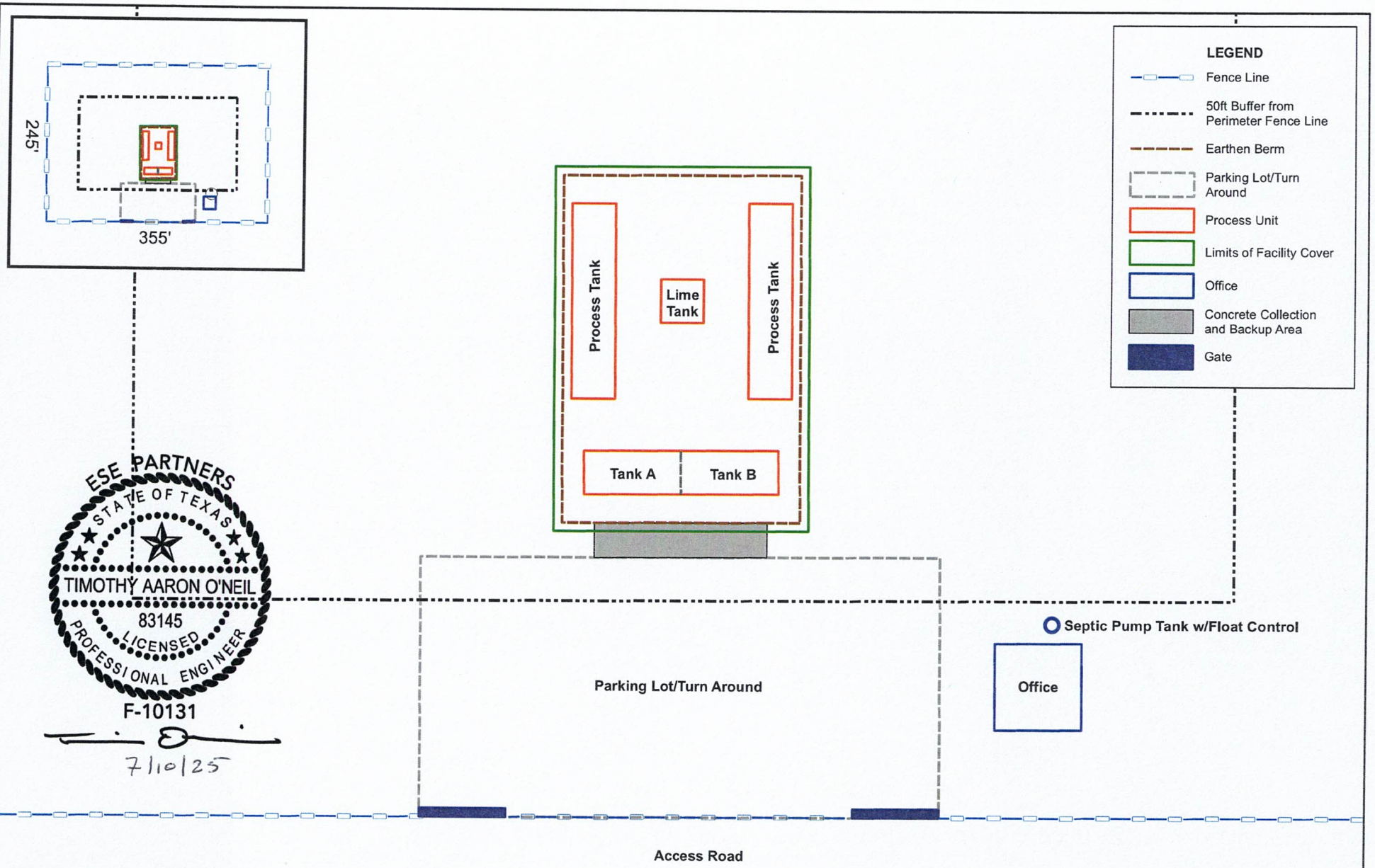
IV-8 Sign Displaying Prohibited Wastes

IV-9 Sign Displaying Authorized Wastes

Figure IV -1

Existing Site Layout

No previous site exists.



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TIMOTHY AARON O'NEIL
83145
LICENSED
PROFESSIONAL ENGINEER
F-10131
7/10/25

AUSTIN COUNTY WASTE SOLUTIONS
AUSTIN COUNTY, TEXAS

PLANNED FACILITY LAYOUT

PROJECT NUMBER: 24-1353-1
FILE NAME: FIGURE_2_SitePlan
DATE: 6/24/2025
DRAWN BY: LS
APPROVED BY: TO

ese partners
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Projection: NAD 1983 2011 StatePlane Texas South Central FIPS 4204 FtUS
Source: Aerial Imagery Provided by Google

FIGURE IV-2

0 30'
1 inch = 30 feet
N

Figure IV-3

PROCESS	PROCESS DESCRIPTION/DETAILS
Receiving of Lime Slurry	Bulk lime slurry is received in from an approved supplier. Weight and pH is monitored upon receiving.This information is then transferred into our data base.
Bulk Slurry Lime Storage	Bulk lime slurry is temporarily stored in an approved holding tank for the lime stabilization treatment of domestic septage.
Receiving of Domestic Septage	Domestic septage will be delivered to the facility by customer pump trucks.A manifest will be provided by driver and all paperwork will be reviewed before product can be received in.
Septic Waste Tank	The septage will be pumped into facility via customers pump truck into the Facility's Septic Waste Tank. A flow meter will be used to measure gallons/per minute into the tank. All information will be entered into our database.
BAR(A) Screening	A bar screen (1/2 inch, carbon steele) at the top of the Facility's Septic Waste Tank is used to remove trash and other debris greater than 1/2 inch as septic flows into the Septic Waste Tank. The trash and other debris is manually removed from the top of the BAR (A) Screen once full.
Dumpster	The trash and debris manually removed from the top of the BAR (A &B) screens are placed into a dumpster, which is managed by a contracted waste company.
TCEQ Approved Landfill	The contracted waste company disposes of the septic waste and debris at a TCEQ-approved landfill
Transfer of Waste	Electric pumps will then move the septic waste through an additional bar screen and into the Pre-Treatment

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BAR(B) Screening	A bar screen (1/4 inch, carbon steele) at the top of the Facility's Processing Tank is used to remove remaining minor trash and other debris greater than (1/4 inch) as septic flows into the Processing Tank. The remaining minor trash and other debris is manually removed from the top of the BAR (B) Screen once full and also placed in the dumpster for disposal by a contracted waste company and the waste company hauls it to a TCEQ Approved Landfill.
Processing Tank **(Addition of Lime)** **(Regulation Monitoring)** **(Treatment Plan)**	● Addition of Lime- Slurry lime is added to domestic septage for lime stabilization to properly neutralize sewage odors.The lime is pumped into processing tank with domestic septage and re-circulated via pumps for blending. ● A litmus paper/time test is performed and documented. pH will be checked and must remain above 12 on the pH scale for 30 minutes. ***This is a requirement.*** ● Treatment Plan- If pH is too low and fails to meet above standard, more slurry lime must be added.This corrective action will be documented.
Addition of Domestic Water Source *If needed.	Water is added if needed at two processing points (Bulk Slurry Lime Storage and at Processing Tank) as a further processing aid.
Final Treated Septic Waste Disposal-TCEQ Approved Land Application	Once treated septic waste pH meets listed requirements, the treated septic will be pumped onto a TCEQ approved BFU (Beneficial Land Unit) site.

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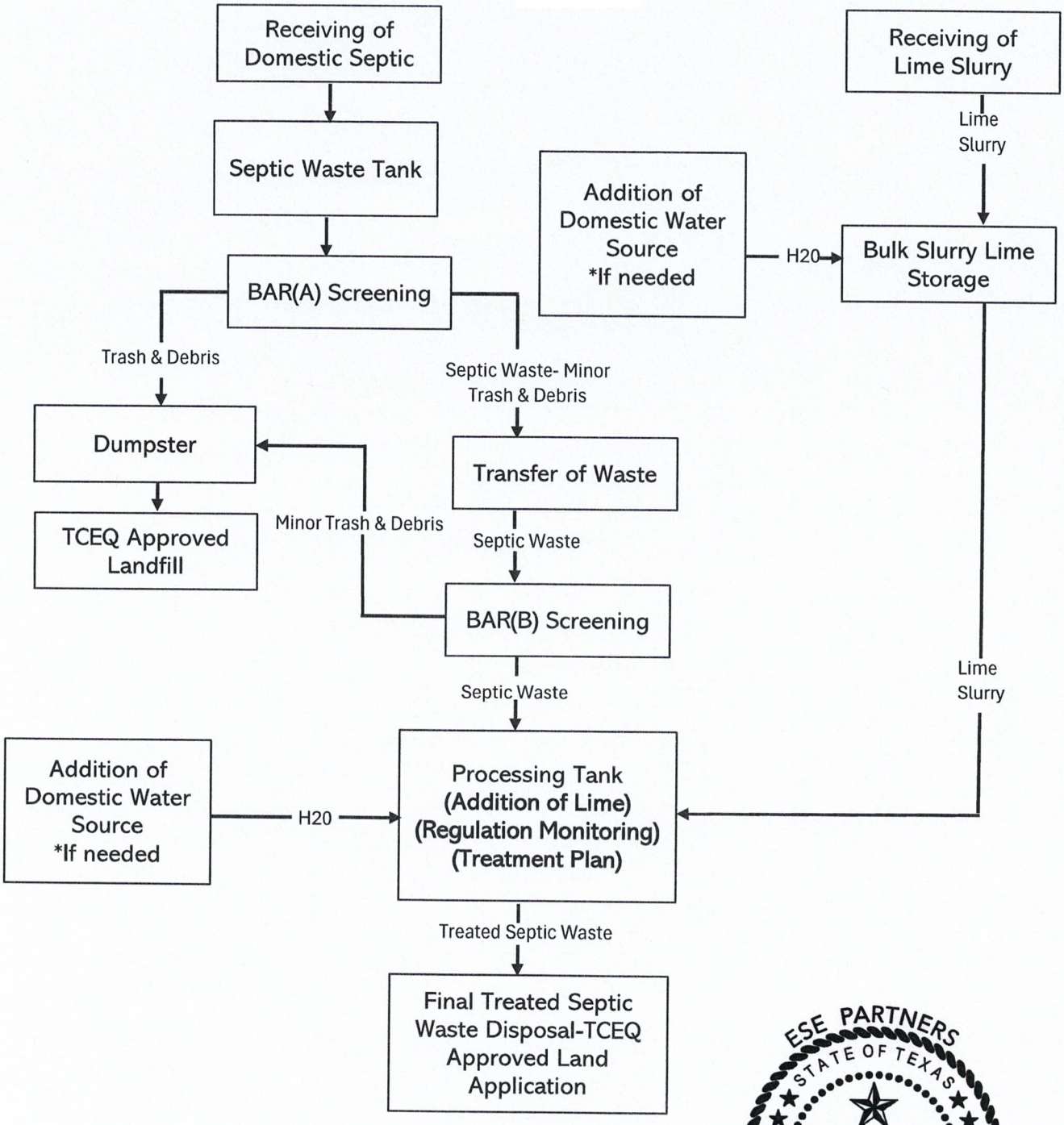

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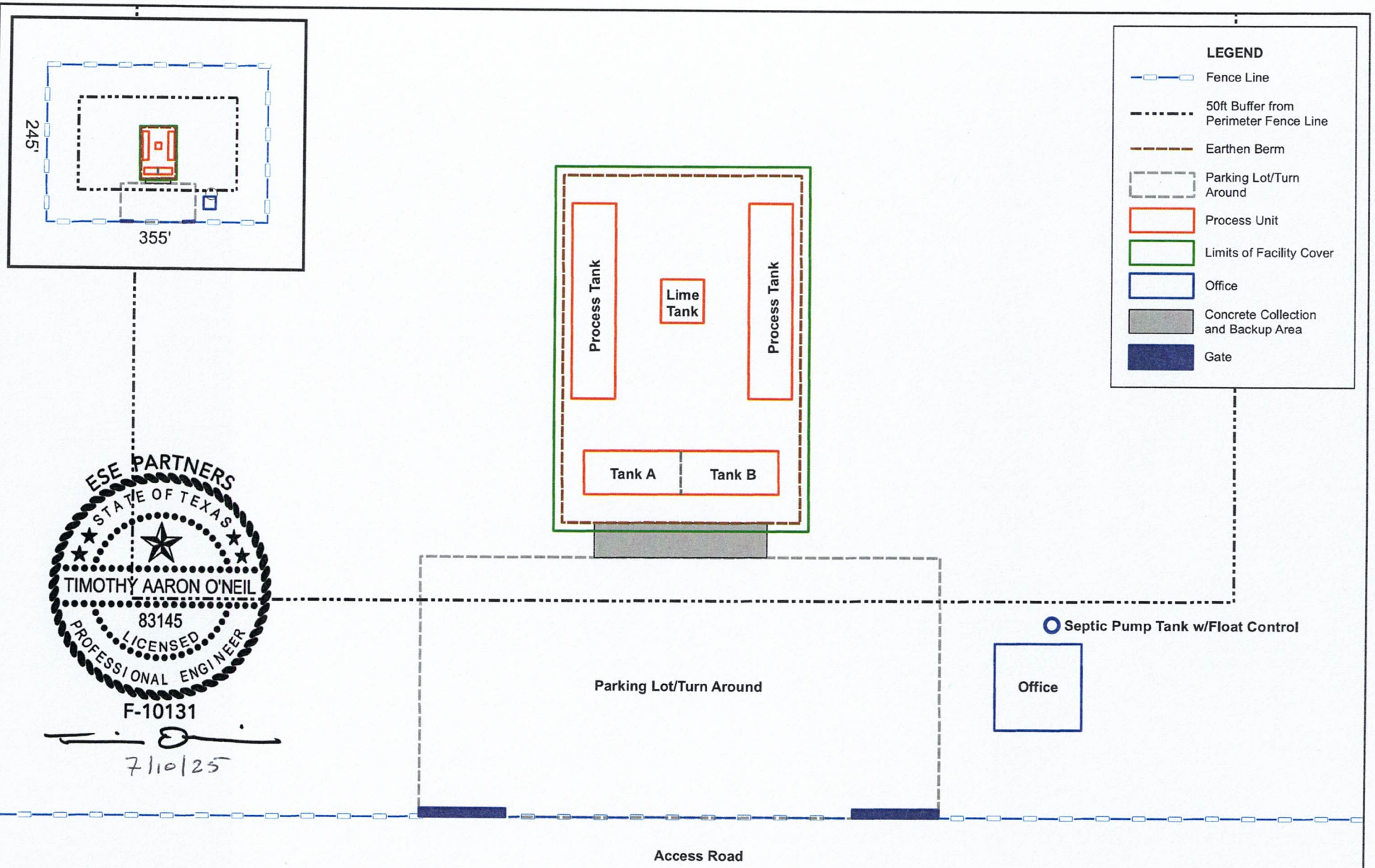

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AUSTIN COUNTY WASTE SOLUTIONS
AUSTIN COUNTY, TEXAS

PLANNED FACILITY LAYOUT

PROJECT NUMBER: 24-1353-1
FILE NAME: FIGURE_2_SitePlan
DATE: 6/24/2025
DRAWN BY: LS
APPROVED BY: TO

ese partners
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Projection: NAD 1983 2011 StatePlane Texas South Central FIPS 4204 FtUS
Source: Aerial Imagery Provided by Google

FIGURE IV-4

0 30'
1 inch = 30 feet
N

Figure IV-5

FRONT SIDE

INSPECTION REPORT

ITEMS TO BE INSPECTED MONTHLY	CONDITION YES OR NO	DATE CORRECTED
1. CONDITION OF PROCESS AREA ACCEPTABLE;		
2. PRESENCE OF LEAKING OR SPILLED WASTE ALONG ONSITE ROUTE(S) TO THE WORK AREAS;		
3. INTEGRITY OF CLOSURE DEVICES OR VALVES ON THE TRANSPORT VEHICLES;		
4. PRESENCE OF PONDED WATER IN WORK OR STOCKPILE AREAS;		
5. EVIDENCE OF UNAUTHORIZED ENTRY;		
6. CONDITION OF PERIMETER FENCE AND GATES;		
7. EASE OF ACCESS TO WORK AREA BEING USED;		
8. EXCESSIVE DUST GENERATED ALONG THE ACCESS ROUTE(S) TO THE WORK AREA;		
9. NEED FOR EQUIPMENT REPAIR;		
10. EVIDENCE OF SUFFICIENT NON-RECYCLED OR NON-USABLE MATERIAL VOLUMES FROM THE PROCESSED WASTE STREAM TO MERIT SHIPMENT FOR DISPOSAL TO AN OFFSITE LANDFILL.		

SIGNATURE OF OBSERVER _____ DATE: _____

SIGNATURE OF REVIEWER _____ DATE: _____

11”

8.5”

BACK SIDE

INSPECTION REPORT

DATE OF OBSERVATION:

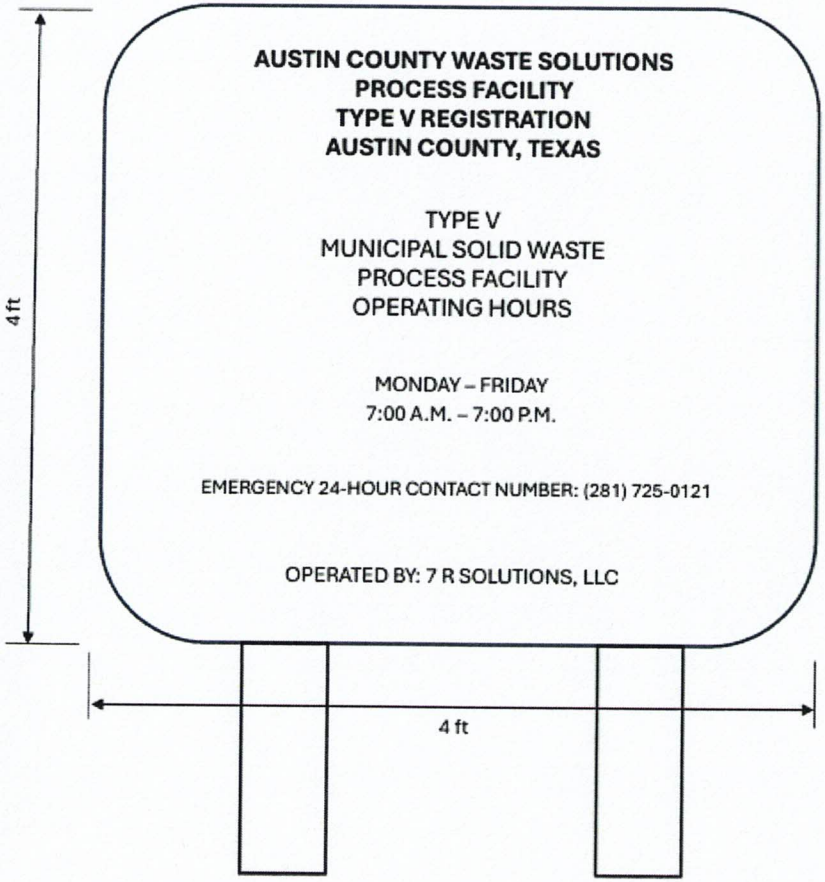
INSTRUCTIONS: IF ANY ITEM IS CHECKED YES, PROVIDE DETAILS OF THE PROBLEM AND REMIDIATION OR MAINTENANCE RECOMMENDATIONS BELOW.

COMMENT NO.	COMMENT

COMMENT NO.	CORRECTIVE ACTION PERFORMED

SIGNATURE OF OBSERVER _____ DATE: _____

SIGNATURE OF REVIEWER _____ DATE: _____



Legend:

Seal:

F-10131

7/10/25

N

Title:

Facility Sign

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

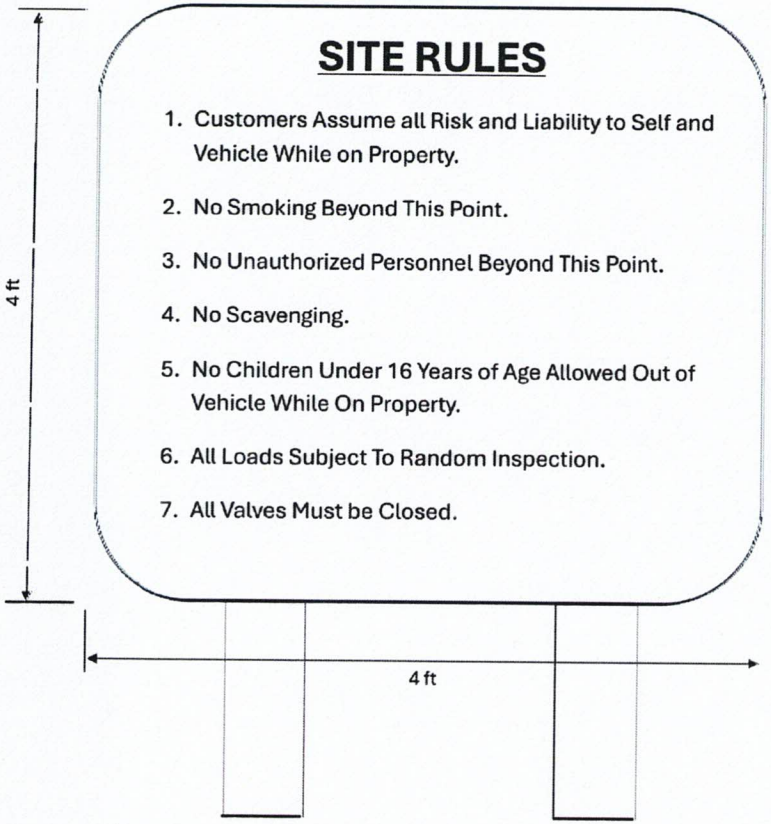
Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN

Revised:

File:
ACWS Liquid Processing Facility-facilitysign.pdf

Figure:
IV-6



Legend:

Seal:

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83145
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PROFESSIONAL ENGINEER
F-10131

7/10/25

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Title:

Facility Rules

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

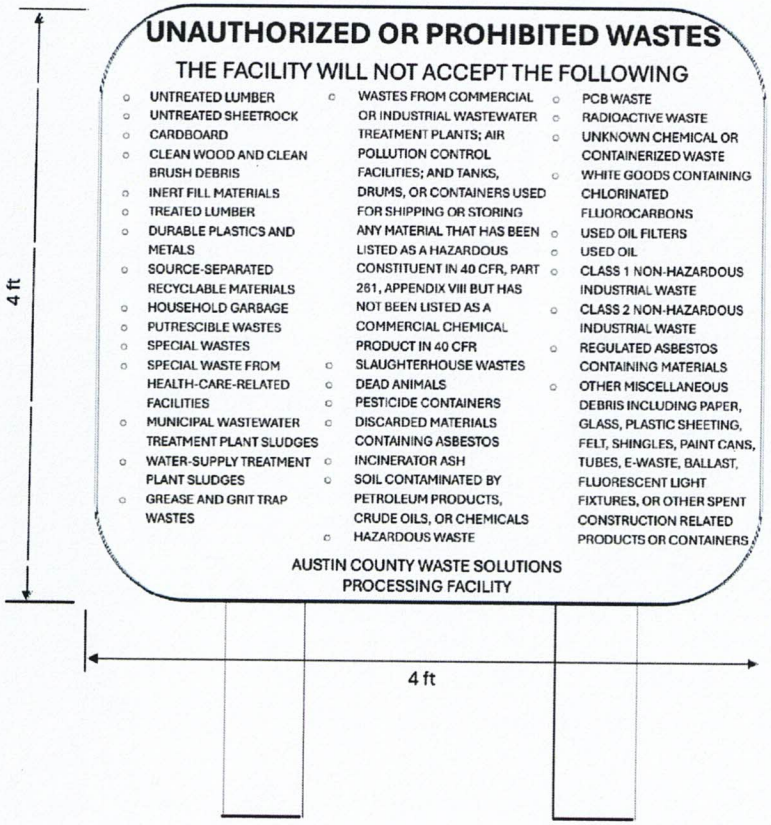
Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN

Revised:

File:
ACWS Liquid Processing Facility-facilityrules.pdf

Figure:
IV-7



Legend:

Seal:

7/10/25

N

Title:

Prohibited Waste

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN

Revised:

File:
ACWS Liquid Processing Facility-Prohibwaste.pdf

Figure:
IV-8

Legend:

Seal:

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N

Title:

Authorized Waste

AUSTIN COUNTY WASTE SOLUTIONS
Type V REGISTRATION APPLICATION
Austin County, Texas

Prepared for:
7 R Solutions, LLC

Completed by: BMG	Date: 01/02/25
Prepared by: BMG	Scale: AS SHOWN

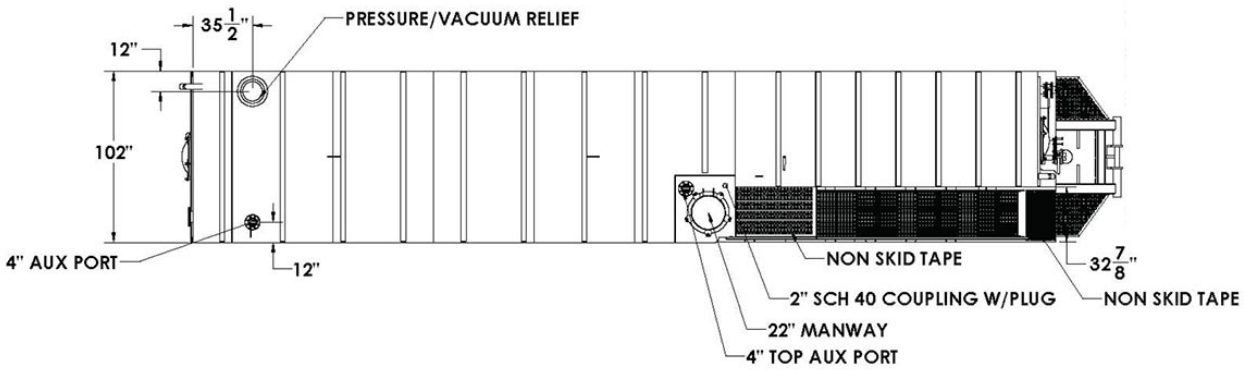
Revised:

File:
ACWS Liquid Processing Facility-authwaste.pdf

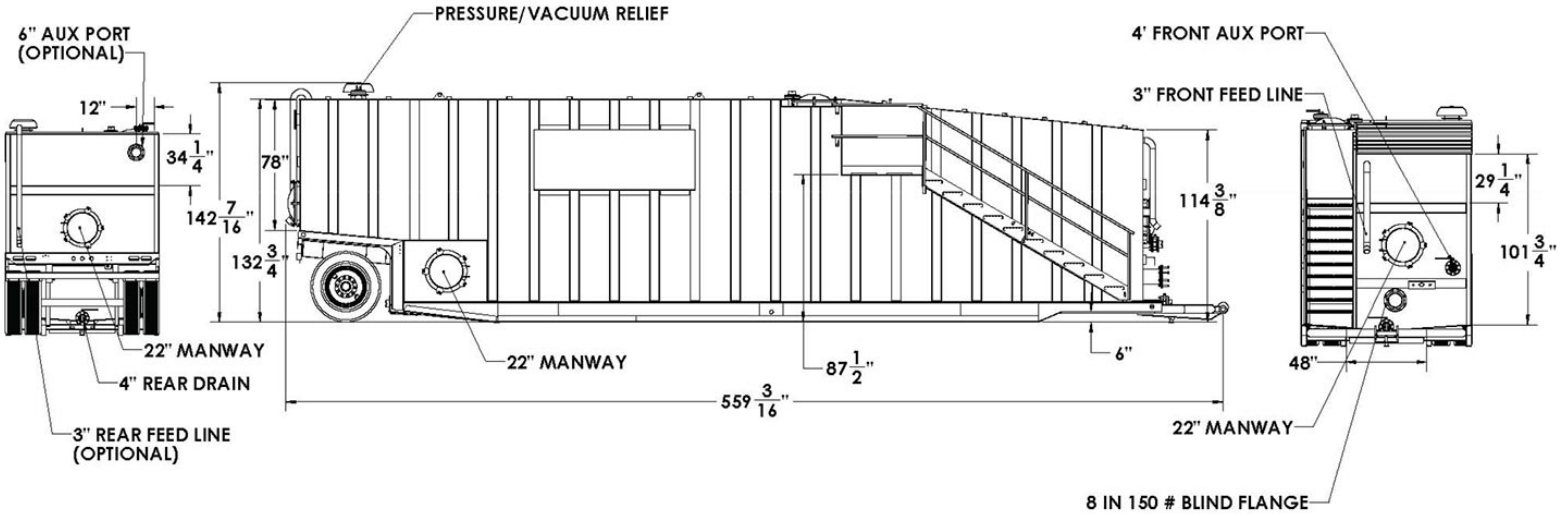
Figure:
IV-9

Austin County Waste Solutions

Frac Tank Drawings



FT-452_MAIN



GORMAN-RUPP PUMPS

Super T SERIES®

BASIC SELF-PRIMING CENTRIFUGAL PUMP

FIVE-YEAR WARRANTY 5 SUPER T SERIES®

Model: T4A60S-B

Various Patents Apply

Pump Specifications

Size	4" x 4" (101 mm x 101 mm) NPT - Female
Impeller Type	Semi-Open, Two Vane
Solids-Handling Capability	3" (76,2 mm) Spherical Diameter
Seal Type	Cartridge Type, Mechanical, Oil-Lubricated, Double Floating, Self-Aligning
Radial Bearing	Open Single Row Ball
Thrust Bearing	Open Double Row Ball
Bearing and Seal Cavity Lubrication	SAE 30 Non-Detergent Oil
Maximum Operating Pressure	86 psi (593 kPa)*
Max Temp of Liquid Pumped	160°F (71°C).*

Pump Materials

Casing	Gray Iron 30
Impeller	Ductile Iron 65-45-12
Impeller Shaft	Alloy Steel 4150
Shaft Sleeve	Alloy Steel 4130
Seal: Stationary Face **Rotating Face** **Elastomer**	Silicon Carbide Silicon Carbide Fluorocarbon FKM, (Viton® or Equivalent)
Replaceable Wear Plate:	Carbon Steel ASTM A36
Removable Adjustable Cover Plate	Gray Iron 30
Removable Inspection Cover Plate	Gray Iron 30 – 12 lbs. (5,4 kg.)
Flap Valve	Neoprene with Nylon and Steel Reinforcing
Seal Plate	Gray Iron 30
Bearing Housing	Gray Iron 30
Flanges	Gray Iron 30
Gaskets	Buna-N, with Compressed Synthetic Fiber, Vegetable Fiber, PTFE, Cork and Rubber
O-Rings	Buna-N
Hardware	Standard Plated Steel

**Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.*

Standard Equipment: Brass Pressure Relief Valve, Bearing and Seal Cavity Oil Level Sight Gauges.

Optional Equipment: Automatic Air Release Valve, Metal Bellows Seal, 120V/240V Casing Heater, High Pump Temperature Shutdown Kit, Drain Kit, Gauge Kit.
Suction and Discharge Spool Flanges:
4" ASA (Specify Model T4A60S-B /F)
100 mm DIN 2527 – PN 16 (Specify Model T4A60S-B /FM).

Shown with Optional Suction and Discharge Spool Flanges (Available in ASA or DIN Standard Sizes).

Super T Series Features and Benefits

Easy To Service And Maintain - Pump is mounted above liquid being pumped with only the suction line down in liquid.

Dual Bearing Protection – An atmospheric barrier along with two lip seals provide additional protection of the pump bearings (not available on 2" models).

Inspection Cover – Patented, lightweight inspection cover for easy access to the impeller without removing the entire backcover plate or piping (2" – 8" models).

5 Year Super T Series Warranty

Up To 3" Diameter Spherical Solids Handling (4" – 10" models).

Removable Rotating Assembly – The entire rotating assembly can be removed without disturbing the pump volute or piping allowing the rotating assembly to be easily repaired or quickly replaced with a new ready to drop in assembly.

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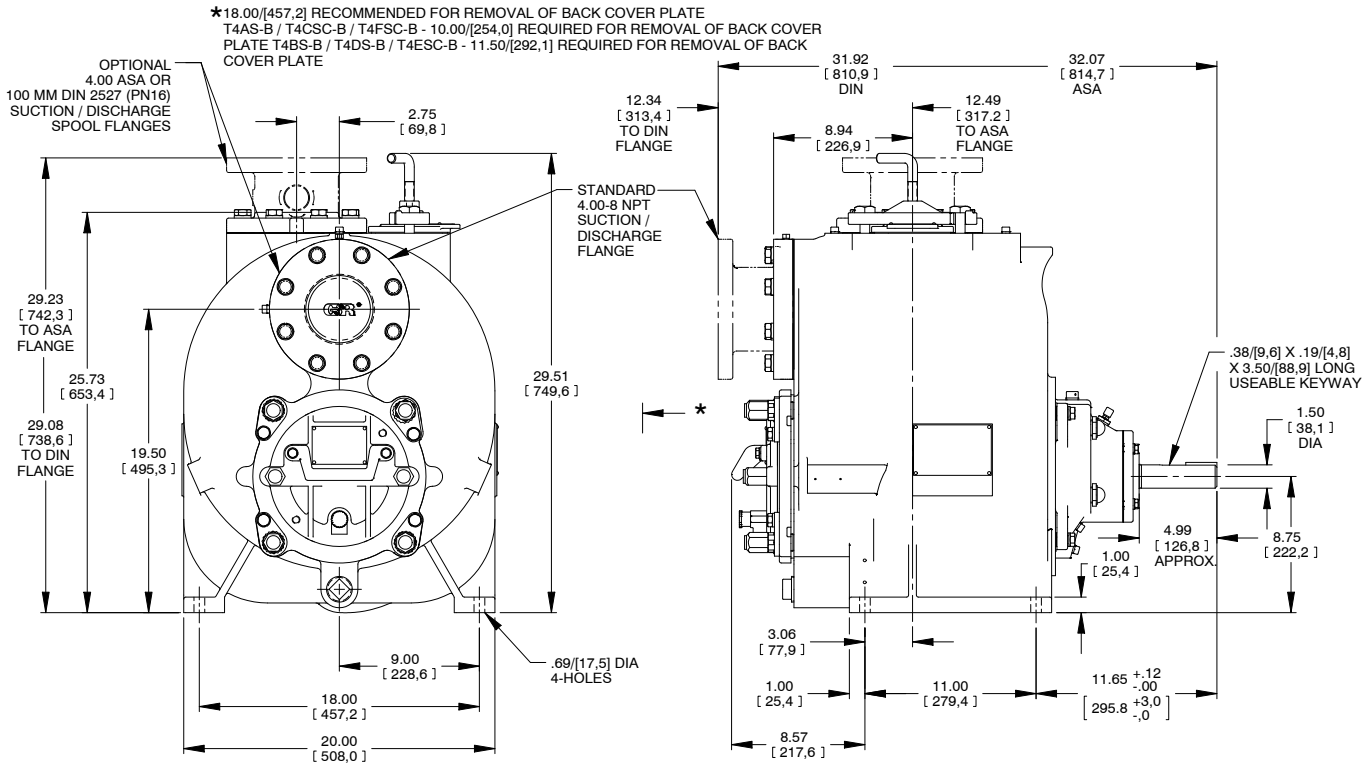
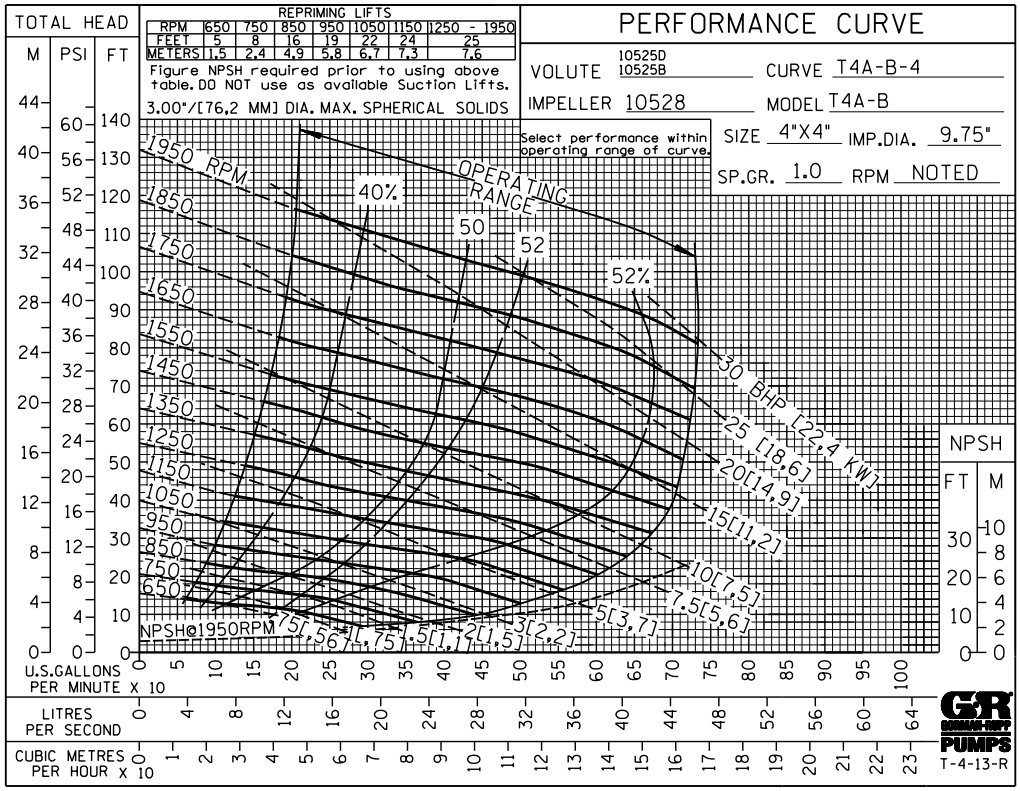
APPROXIMATE DIMENSIONS AND WEIGHTS

NET WEIGHT	607 LBS. (275 KG.)*
SHIPPING WEIGHT	632 LBS. (286 KG.)*
EXPORT CRATE	22.7 CU. FT. (0,64 CU. M.)

**Add 15 LBS. (6,8 KG.) w/each spool flange*



NOTE: OPTIONAL ASA OR DIN STANDARD SUCTION & DISCHARGE SPOOL FLANGES AVAILABLE



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