

Administrative Package Cover Page

This file contains the following documents:

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

Individual Industrial Wastewater Application

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

Volleman Dairy Processing, located at 600 CR 252 in Gustine, Texas, is a specialty manufacturer of dairy food products that processes high-quality raw milk into grade A fluid milk and ice cream. The wastewater generated during operations is a mixture of captured wash water and various byproducts. This includes milk minerals, organic matter, and cleaning compounds that maintain a hygienic production environment. The wash water is collected from equipment and surfaces after cleaning processes, ensuring it is managed efficiently.

At Volleman Dairy Processing, the wastewater undergoes a thorough treatment process before being applied to the land. Collected wastewater from the plant is pumped into a treatment lagoon. This lagoon will feature an aeration system with a capacity of 5.5 million gallons and is equipped with a 300-horsepower aeration pump. After treatment, the effluent will flow by gravity into a 7.7 million-gallon storage lagoon, which will be applied to the fields at agronomically recommended rates.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0005282000

APPLICATION. Natural Dairy Grower Land, LP; Volleman Dairy Processing Land, LP; and Volleman Dairy Processing, LLC; 600 County Road 252, Gustine, Texas 76455, which own and operate a specialty dairy food products manufacturing facility, have applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Land Application Permit (TLAP) No. WQ0005282000 to authorize increasing the application areas to 46 acres, increasing the daily average flow to 100,000 gallons per day, increasing the hydraulic application rate to 2.44 acre-feet per acre irrigated per year, and adding a new 7.7 million gallon storage pond. The facility and disposal site are located approximately 0.6 miles west of the intersection of State Highway 36 and Farm-to-Market Road 1476, near the city of Gustine, in Comanche County, Texas 76455. TCEQ received this application on June 11, 2025. The permit application will be available for viewing and copying at Comanche County Extension Office, 101 West Central Avenue, #B101, Comanche, in Comanche County, Texas, prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.439444,31.847222&level=18

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

PUBLIC COMMENT / **PUBLIC MEETING.** You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at https://www14.tceq.texas.gov/epic/eComment/, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105,

P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Natural Dairy Grower Land, LP; Volleman Dairy Processing Land, LP; and Volleman Dairy Processing, LLC at the address stated above or by calling Mr. Corey Mullin, Enviro-Ag Engineering, Inc., at 254-965-3500.

Issuance Date: July 1, 2025



Corporate Office: 3404 Airway Blvd. Amarillo TX 79118

Central Texas: 9855 FM 847 Dublin TX 76446

New Mexico: 110 East Mill Road Artesia NM 88210

June 10, 2025

Texas Commission on Environmental Quality Water Quality Division Applications Review and Processing Team, MC-148 12100 Park 35 Circle Austin TX 78753

Re:

TCEQ Industrial Wastewater Application – Major Amendment Application for Volleman

Dairy Processing Plant Comanche County, Texas.

Dear Sir/Madam,

Enclosed please find the completed Industrial Administrative Reports, Industrial Technical Reports, Worksheets and supporting documentation for the above referenced facility. Should you have any questions please do not hesitate to contact me.

Respectfully Submitted,

Jourdan Mullin

Enviro-Ag Engineering

Enclosures

Volleman Dairy Processing Plant cc:

EAE File



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the industrial wastewater permit application.

APPLICANT NAME: <u>Volleman Dairy Processing Land, LP; Volleman Dairy Processing, LLC and Natural Dairy Grower Land, LP</u>

PERMIT NUMBER (If new, leave blank): WQ00 05282000

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

	Y	N		Y	N
Administrative Report 1.0	\boxtimes		Worksheet 8.0		\boxtimes
Administrative Report 1.1	\boxtimes		Worksheet 9.0		\boxtimes
SPIF		\boxtimes	Worksheet 10.0		\boxtimes
Core Data Form	\boxtimes		Worksheet 11.0		\boxtimes
Summary of Application (PLS)	\boxtimes		Worksheet 11.1		\boxtimes
Public Involvement Plan Form	\boxtimes		Worksheet 11.2		\boxtimes
Technical Report 1.0	\boxtimes		Worksheet 11.3		\boxtimes
Worksheet 1.0		\boxtimes	Original USGS Map	\boxtimes	
Worksheet 2.0		\boxtimes	Affected Landowners Map	\boxtimes	
Worksheet 3.0	\boxtimes		Landowner Disk or Labels	\boxtimes	
Worksheet 3.1	\boxtimes		Flow Diagram	\boxtimes	
Worksheet 3.2		\boxtimes	Site Drawing	\boxtimes	
Worksheet 3.3		\boxtimes	Original Photographs	\boxtimes	
Worksheet 4.0		\boxtimes	Design Calculations	\boxtimes	
Worksheet 4.1		\boxtimes	Solids Management Plan		\boxtimes
Worksheet 5.0		\boxtimes	Water Balance	\boxtimes	
Worksheet 6.0		\boxtimes			
Worksheet 7.0					

For TCEQ Use Only	
Segment Number	County

Expiration Date	Region	TO THE PERSON
Permit Number		



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION **ADMINISTRATIVE REPORT 1.0**

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use Oil and Gas Exploration and Production Administrative Report (TCEO Form-20893 and 20893-inst).

lt(em 1. Application Information and Fees (Instructions, Page 26)
a.	Complete each field with the requested information, if applicable.
	Applicant Name: <u>Volleman Dairy Processing Land, LP; Volleman Dairy Processing, LLC and Natural Dairy Grower Land, LP</u>
	Permit No.: <u>WQ0005282000</u>
	EPA ID No.: TX0Click to enter text.
	Expiration Date: <u>3/10/2030</u>
b.	Check the box next to the appropriate authorization type.
	☑ Industrial Wastewater (wastewater and stormwater)
	☐ Industrial Stormwater (stormwater only)
	\square Reverse Osmosis Water Treatment (reverse osmosis water treatment wastewaters only)
c.	Check the box next to the appropriate facility status.
	□ Inactive
d.	Check the box next to the appropriate permit type.
	\square TPDES Permit \boxtimes TLAP \square TPDES with TLAP component
e.	Check the box next to the appropriate application type.
	□ New
	\square Renewal with changes \square Renewal without changes
	☐ Minor amendment without renewal
	☐ Minor modification without renewal
f.	If applying for an amendment or modification, describe the request: <u>Increasing the</u> application areas from 31 acres to 46 acres, increasing the average daily flow from 35,000 gallons per day to 100,000 gallons per day, increasing the hydraulic application rate from

https://www.tceq.texas.gov/publications/search_forms.html TCEQ-10411 (09/13/2024) Industrial Wastewater Application Administrative Report

1.27 acre-feet per acre irrigated per year to 2.44 acre-feet per acre irrigated per year, and a new 7.7 million gallon storage pond.

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

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	□ \$350	⊠ \$350	□ \$315	□ \$150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	□ \$1,250	□ \$1,250	□ \$1,215	□ \$150
Major facility	N/A ²	□ \$2,050	□ \$2,015	□ \$450

h. Payment Information

Mailed

Check or money order No.: <u>Click to enter text.</u> Check or money order amt.: <u>Click to enter text.</u>

Named printed on check or money order: Click to enter text.

Epay

Voucher number: <u>767375 & 767376</u> Copy of voucher attachment: <u>A.A</u>

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: <u>CN604321364</u>; <u>CN605698794</u> **Note:** Locate the customer number using the <u>TCEQ's Central Registry Customer Search</u>³.

b. Legal name of the entity (applicant) applying for this permit: <u>Natural Dairy Grower Land, LP</u> and Volleman Dairy Processing Land, <u>LP</u>

Note: The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

executive off	icial that meets signatory requirements in 50 TAC § 505.44.)
Prefix: Mr.	Full Name (Last/First Name): <u>Andrew Volleman</u>

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

d.	Will the applicant have overall financial responsibility for the facility?
	⊠ Yes □ No

² All facilities are designated as minors until formally classified as a major by EPA.

^a https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

Note: The entity with overall financial responsibility for the facility must apply as a coapplicant, if not the facility owner.

Item 3. Co-applicant Information (Instructions, Page 27)

☐ Check this box if there is no co-applicant.; otherwise, complete the below questions.

a. Legal name of the entity (co-applicant) applying for this permit: <u>Volleman Dairy Processing</u>, LLC

Note: The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): CN605698802

Note: Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Mr. Full Name (Last/First Name): Andrew Volleman

Title: Managing Member Credential: Click to enter text.

d. Will the co-applicant have overall financial responsibility for the facility?

☐ Yes ⊠ No

Note: The entity with overall financial responsibility for the facility must apply as a coapplicant, if not the facility owner.

Item 4. Core Data Form (Instructions, Pages 27)

a. Complete and attach one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)). If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: <u>A.B</u>

Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contacted about this application. Indicate if the individual can be contacted about administrative or technical information, or both.

a. ⊠ Administrative Contact . ⊠ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Frank Volleman

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

Organization Name: Volleman Dairy Processing Land, LP

Mailing Address: 600 County Road 252 City/State/Zip: Gustine, TX 76455

Phone No: 325/667-7266 Email: frank@wildcatmilk.com

b. ⊠ Administrative Contact ⊠ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Corey Mullin

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering, Inc.

Mailing Address: 9855 FM 847 City/State/Zip: Dublin, TX 76446

Phone No: <u>254/965-3500</u> Email: <u>cmullin@enviroag.com</u>

Attachment: Click to enter text.

Item 6. Permit Contact Information (Instructions, Page 28)

Provide two names of individuals that can be contacted throughout the permit term.

a. Prefix: Mr. Full Name (Last/First Name): Frank Volleman

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

Organization Name: Volleman Dairy Processing Land, LP

Mailing Address: 600 County Road 252 City/State/Zip: Gustine, TX 76455

Phone No: 325/667-7266 Email: frank@wildcatmilk.com

b. Prefix: Mr. Full Name (Last/First Name): Corey Mullin

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering, Inc.

Mailing Address: 9855 FM 847 City/State/Zip: Dublin, TX 76446

Phone No: 254/965-3500 Email: cmullin@enviroag.com

Attachment: Click to enter text.

Item 7. Billing Contact Information (Instructions, Page 28)

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

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Mr. Full Name (Last/First Name): Frank Volleman

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

Organization Name: Volleman Dairy Processing Land, LP

Mailing Address: 600 County Road 252 City/State/Zip: Gustine, TX 76455

Phone No: 325/667-7266 Email: frank@wildcatmilk.com

Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: Mr. Full Name (Last/First Name): Frank Volleman

Title: Partner Credential: Click to enter text.

Organization Name: Volleman Dairy Processing Land, LP

Mailing Address: 600 County Road 252 City/State/Zip: Gustine, TX 76455

Phone No: 325/667-7266 Email: frank@wildcatmilk.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Mrs. Full Name (Last/First Name): Jourdan Mullin

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering, Inc.

Mailing Address: 9855 FM 847 City/State/Zip: Dublin, TX 76446

Phone No: <u>254/965-3500</u> Email: <u>jmullin@enviroag.com</u>

- b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)
 - ☑ E-mail: jmullin@enviroag.com
 - \square Fax: Click to enter text.
 - ⊠ Regular Mail (USPS)

Mailing Address: 9855 FM 847

City/State/Zip Code: <u>Dublin, TX 76446</u>

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Corey Mullin

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering, Inc

Phone No: 254/965-3500 Email: cmullin@enviroag.com

d. Public Viewing Location Information

Note: If the facility or outfall is located in more than one county, provide a public viewing

place for each county.

Public building name: Comanche County Extension Office Location within the

building: Comanche County Courthouse

Physical Address of Building: 101 W Central Ave #B101

City: Comanche County: Comanche

e. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

1.	Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?
	□ Yes ⋈ No
	If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)
2.	Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?
	□ Yes □ No
3.	Do the students at these schools attend a bilingual education program at another location?
	□ Yes □ No
4.	Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?
	□ Yes □ No □ N/A
5.	If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? <u>Click to enter text.</u>
Αp	mmary of Application in Plain Language Template – Complete and attach the Summary of oplication in Plain Language Template (TCEQ Form 20972), also known as the plain nguage summary or PLS. Attachment: <u>A.C</u>
Co	mplete and attach one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each plication for a new permit or major amendment. Attachment: <u>A.D</u>
em	10. Regulated Entity and Permitted Site Information (Instructions
	Page 29)
TC	EQ issued Regulated Entity Number (RN), if available: RN110849825
No ma	ote: If your business site is part of a larger business site, a Regulated Entity Number (RN) ay already be assigned for the larger site. Use the RN assigned for the larger site. Search
reg	e TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN.
reg Na	e TCEQ's Central Registry to determine the RN or to see if the larger site may already be
reg Na <u>Pro</u>	TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. me of project or site (name known by the community where located): Volleman Dairy
Na Pro	e TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. me of project or site (name known by the community where located): Volleman Dairy occasing Plant
reg Na Pro Is t ⊠ No Wi	e TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. me of project or site (name known by the community where located): Volleman Dairy occasing Plant the location address of the facility in the existing permit the same?
reg Na Pro Is t ⊠ No Wit ma	e TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. me of project or site (name known by the community where located): Volleman Dairy occasing Plant the location address of the facility in the existing permit the same? Yes □ No □ N/A (new permit) ote: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or lliamson County, additional information concerning protection of the Edwards Aquifer
reg Na Pro Is t ■ No Wii ma	e TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. me of project or site (name known by the community where located): Volleman Dairy occasing Plant the location address of the facility in the existing permit the same? Yes \Boxtimes No \Boxtimes N/A (new permit) ote: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or liamson County, additional information concerning protection of the Edwards Aquifer by be required.
reg Na Pro Is t No Wi ma Ow Pro	e TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN. me of project or site (name known by the community where located): Volleman Dairy ocessing Plant the location address of the facility in the existing permit the same? Yes \Boxtimes No \Boxtimes N/A (new permit) Ote: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or cliamson County, additional information concerning protection of the Edwards Aquifer by be required.

f.

g.

a.

b.

c.

d.

	Phone No: <u>325/667-7266</u>	Email: <u>frank</u>	<u>@wildcatmil</u>	k.com	
e.	Ownership of facility: \square Pul	olic 🗵	Private	□ Both	□ Federal
f.	Owner of land where treatme	nt facility is o	or will be: <u>Cl</u> i	ick to enter te	xt.
	Prefix: Click to enter text.	Full Name (L	ast/First Na	me): <u>Click to e</u>	nter text.
	or Organization Name: Voller	nan Dairy Pro	cessing Land	<u>d, LP</u>	
	Mailing Address: 600 County	Road 252	City	/State/Zip: <u>Gu</u>	stine, TX 76455
	Phone No: <u>325/667-7266</u>	Email: <u>frank</u>	<u>@wildcatmil</u>	<u>k.com</u>	
	Note: If not the same as the f at least six years (In some cas Click to enter text.	acility owner, ses, a lease ma	attach a lon ay not suffic	g-term lease a e - see instruc	greement in effect for tions). Attachment:
g.	Owner of effluent TLAP dispo	sal site (if ap	plicable): <u>Cli</u>	ck to enter tex	ct.
	Prefix: Click to enter text.	Full Name (L	ast/First Na	me): <u>Click to e</u>	nter text.
	or Organization Name: Natur	al Dairy Grow	er Land, LP		
	Mailing Address: 600 County	Road 252	City	/State/Zip: <u>Gu</u>	stine, TX 76455
	Phone No: <u>325/667-7266</u>	Email: <u>frank</u>	<u>@wildcatmil</u>	k.com	
	Note: If not the same as the f at least six years. Attachment			g-term lease a	greement in effect for
h.	Owner of sewage sludge disp	osal site (if ap	plicable):		
	Prefix: Click to enter text.	Full Name (L	ast/First Na	me): <u>Click to e</u>	nter text.
	or Organization Name: Click	to enter text.			
	Mailing Address: Click to ente	er text.	City	/State/Zip: <u>Cli</u>	ck to enter text.
	Phone No: <u>Click to enter text.</u>	Email: Click t	o enter text.		
	Note: If not the same as the f at least six years. Attachment			g-term lease a	greement in effect for
Ite	em 11. TDPES Discharg Page 31)	ge/TLAP D	isposal II	ıformation	(Instructions,
a.	Is the facility located on or do	oes the treated	d effluent cr	oss Native Am	erican Land?
	☐ Yes ☒ No				
,) C C T		0 = 11	
D.	Attach an original full size US renewal or amendment applic each item below to confirm it	cations) with a	ıll required i	nformation. C	produced portion for heck the box next to
	☑ One-mile radius		⊠ Three-m	iles downstrea	am information
	⊠ Applicant's property bound	daries	☐ Treatme	nt facility bou	ndaries
	☐ Labeled point(s) of dischar	ge	☐ Highligh	ted discharge	route(s)
	⊠ Effluent disposal site boun	daries	⊠ All waste	ewater ponds	
	☐ Sewage sludge disposal sit	e		future constr	uction

	Attachment: A.E
c.	Is the location of the sewage sludge disposal site in the existing permit accurate? \square Yes \boxtimes No or New Permit
	If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>
d.	Are the point(s) of discharge in the existing permit correct? ☑ Yes □ No or New Permit If no, or a new application, provide an accurate location description: Click to enter text.
e.	Are the discharge route(s) in the existing permit correct? \boxtimes Yes \square No or New Permit If no, or a new permit, provide an accurate description of the discharge route: Click to enter text.
f.	City nearest the outfall(s): N/A
g.	County in which the outfalls(s) is/are located: N/A
h.	Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?
	□ Yes ⋈ No
	If yes, indicate by a check mark if: \square Authorization granted \square Authorization pending
	For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: <u>Click to enter text.</u>
	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.
i.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	⊠ Yes No or New Permit □ <u>Click to enter text.</u>
	If no, or a new application, provide an accurate location description: Click to enter text.
j.	City nearest the disposal site: <u>Gustine</u>
k.	County in which the disposal site is located: <u>Comanche</u>
l.	For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: Effluent from the treatment facility is pumped through an underground pipe to the effluent disposal site.
m.	For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: <u>Holmsley Creek</u>

Item 12. Miscellaneous Information (Instructions, Page 33)

a.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
	□ Yes ⊠ No
	If yes, list each person: Click to enter text.
b.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If yes, provide the following information:
	Account no.: Click to enter text.
	Total amount due: <u>Click to enter text.</u>
c.	Do you owe any penalties to the TCEQ?
	□ Yes ⊠ No
	If yes, provide the following information:
	Enforcement order no.: Click to enter text.
	Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0005282000

Applicant Name: Volleman Dairy Processing Land, LP

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

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

Signatory name (typed or printed): Andrew Volleman

Ci	σna	tory	title:	Par	ner
ונה	lyna	UOI V	uue.	Lat	шет

Signature:

(Use blue ink)

Subscribed and Sworn to before me by the said

My commission expires on the $\frac{21}{5}$

COREY MULLIN October 21, 2028

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

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0005282000

Applicant Name: Volleman Dairy Processing, LLC

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

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

Signatory name (typed or printed): Andrew Volleman

Signatory title: Managing Member

Signature:	/	1	1	

(Use blue ink)

Date: $\frac{5/28/25}{}$

Subscribed and Sworn to before me by the said

on this 28th

day of

2025

My commission expires on the 21 st

day o

_, 20<u>28</u>

Notary Public

COREY MULLIN
ID #126609838
My Cormin Selica Expires
October 21, 2028

County, Texas

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

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0005282000

Applicant Name: Natural Dairy Grower Land, LP

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

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

Signatory name (typed or printed): Andrew Volleman

Signatory title: Partner

Signature:

on this

(Use blue ink)

Date: $\frac{5}{28}/25$

Subscribed and Sworn to before me by the said

day of

_, 20<u>ZS</u>

My commission expires on the

215

day of

202

Notary Public

County, Texas

DOBEY MULLIN
ID #120009838
My Commission Expires
October 21, 2028

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

a.

b.

Item 1. Affected Landowner Information (Instructions, Page 35)

Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.
☑ The applicant's property boundaries.
oxtimes The facility site boundaries within the applicant's property boundaries.
☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.
☑ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.
☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.
☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.
☑ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.
☑ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.
☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.
☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.
Attachment: A.F
\boxtimes that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).

c. Check this box to confirm a separate list with the landowners' names and mailing

addresses cross-referenced to the landowner's map has been provided. Provide the source of the landowners' names and mailing addresses: Comanche County Appraisal District

e. As required by Texas Water Code § 5.115, is any permanent school fund land affected by this application?

☐ Yes ☒ No

If yes, provide the location and foreseeable impacts and effects this application has on the land(s): Click to enter text.

Item 2. Original Photographs (Instructions, Page 37)

Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.

- ☑ At least one original photograph of the new or expanded treatment unit location.
- At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- ☑ At least one photograph of the existing/proposed effluent disposal site.
- A plot plan or map showing the location and direction of each photograph.

Attachment: <u>A.G</u>

INDUSTRIAL ADMINISTRATIVE REPORT

Attachments

Prepared For:



Volleman Dairy Processing Land, LP 600 County Road 252 Gustine, Texas 76455

Prepared By:



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LIST OF TABLES

A.A: TCEQ APPLICATION FEE

Questions or Comments >>

Shopping Cart

Select Fee

......

Search Transactions

Sign Out

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number: 767375

Trace Number: 582EA000668843

Date: 05/20/2025 11:06 AM

Payment Method: CC - Authorization 000009230G

Voucher Amount: \$300.00

Fee Type: WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT

ePay Actor: JOURDAN MULLIN
Actor Email: jmullin@enviroag.com

IP: 156.146.244.233

Payment Contact Information

Name: JOURDAN MULLIN

Company: ENVIRO-AG ENGINEERING INC

Address: 3404 AIRWAY BLVD, AMARILLO, TX 79118

Phone: 806-679-5570

Site Information

Site Name: VOLLEMAN DAIRY PROCESSING PLANT

Site Location: LOCATED 0.6 M WEST OF INTX OF SH 36 & CR 1476 ON SOUTH SH 36 IN COMANCHE COUNTY

Customer Information

Customer Name: VOLLEMAN DAIRY PROCESSING LAND LP Customer Address: 600 CR 252, GUSTINE, TX 76455

Other Information

Program Area ID: 5282

Close

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Questions or Comments >>

Shopping Cart

Gelect Fee

Search Transactions

Sign Out

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number: 767376

Trace Number: 582EA000668843

Date: 05/20/2025 11:06 AM

Payment Method: CC - Authorization 000009230G

Voucher Amount: \$50.00

Fee Type: 30 TAC 305.53B WQ NOTIFICATION FEE

ePay Actor: JOURDAN MULLIN
Actor Email: jmullin@enviroag.com
IP: 156.146.244.233

Payment Contact Information

Name: JOURDAN MULLIN

Company: ENVIRO-AG ENGINEERING INC

Address: 3404 AIRWAY BLVD, AMARILLO, TX 79118

Phone: 806-679-5570



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A.B: CORE DATA FORMS

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, Registra	tion or Authorization	(Core Data Form	should be s	submitted wit	h the prog	ram application.)			
Renewal (Core Data	Form should be subm	itted with the ren	ewal form)		⊠ c	ther TLAP Ma	ajor Ame	ndment Appli	cation
2. Customer Reference	Number (if issued)	_		ink to search I numbers in	3. Re	gulated Entity Re	ference	Number (if is	ssued)
CN 605698794			Central R	legistry**	RN 1	110849825			
ECTION II:	Customer	Inform	ation	1					
4. General Customer In	formation	5. Effective D	ate for Cu	ustomer Info	Information Updates (mm/dd/yyyy) 05/19/2025				
New Customer	tion	☐ Char	nge in Regulated En	tity Owne	ership				
Change in Legal Name (Verifiable with the Te	xas Secretary of S	State or Tex	as Comptrolle	er of Public	Accounts)			
The Customer Name su	bmitted here mav	be updated au	tomatical	lv based on	what is c	urrent and active	with th	e Texas Secr	etary of State
(SOS) or Texas Comptro				,, 24324 017	************	arrene ana active	. ••••••	e reads seer	ctury of state
6. Customer Legal Nam	e (If an individual, pr	int last name first	t: eg: Doe, J	ohn)		If new Customer,	enter pre	vious Custom	er below:
olleman Dairy Processing	Land, LP								
. TX SOS/CPA Filing Nu	ımber	8. TX State Ta	ax ID (11 d	igits)		9. Federal Tax ID 10. DUNS Number (if			
803375179		32071426343				(9 digits)		applicable)	
11. Type of Customer:	☐ Corpora	tion			Individ	dual	Partne	rship: 🔲 Gen	eral 🛛 Limited
Government: 🔲 City 🔲 C	ounty 🔲 Federal 🔲	Local State	Other		Sole P	Sole Proprietorship Other:			
2. Number of Employe	es					13. Independe	ntly Owi	ned and Ope	rated?
☑ 0-20 21-100] 101-250	-500 🔲 501 aı	nd higher			⊠ Yes	□ No		
l4. Customer Role (Prop	oosed or Actual) – as	it relates to the R	egulated Er	ntity listed on	this form.	Please check one o	f the follo	wing	
☑Owner ☑Occupational Licensee	Operator Responsible Pa		er & Opera CP/BSA App			Other:			
			,						
L5. Mailing	ty Road 252								
Address:						19			
City	Gustine		State	TX	ZIP	76455		ZIP + 4	
			4		-1	4			

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

frank@wildcatmilk.com

18. Telephone Number			19. Extension or	Code		20. Fa	x Number (if a	pplicable)	
(325) 667-7266						(<u> </u>		
SECTION III: I	Regula	ted Ent	ity Inform	nation	1				
21. General Regulated En	tity Informa	tion (If 'New Reg	gulated Entity" is selec	ted, a new p	permit applica	tion is al	so required.)		
New Regulated Entity	Update to	Regulated Entity	Name 🔲 Update t	o Regulated	Entity Inform	ation			
The Regulated Entity Nan as Inc, LP, or LLC).	ne su bmitte d	d may be upda	ted, in order to mee	et TCEQ Co	re Data Stai	ndards (removal of or	ganization	al endings such
22. Regulated Entity Nam	e (Enter name	e of the site wher	re the regulated action	is taking pl	ace.)				
Volleman Dairy Processing Pl	ant								
23. Street Address of the Regulated Entity:									
(No PO Boxes)	City		State		ZIP			ZIP + 4	
24. County	Comanche								
		If no Stre	et Address is provic	led, fields	25-28 are re	quired.			
25. Description to	The facility is	located 0.6 mile	es West of the intersec	tion of State	e Highway 36	and Cour	nty Road 1476 o	n the South	side of State
Physical Location:	Highway 36.								
26. Nearest City						State		Nea	rest ZIP Code
Gustine						TX		7645	5
Latitude/Longitude are re used to supply coordinate	•	-	-		Data Stando	ards. (Ge	eocoding of th	e Physical .	Address may be
27. Latitude (N) In Decima	al:	31.847278		28. 1	Longitude (\	V) In De	cimal:	-98.43954	.9
Degrees	Minutes		Seconds	Degr	ees		Minutes		Seconds
29. Primary SIC Code	30.	Secondary SIC	Code	31. Prima	ry NAICS Co	ode	32. Seco	ndary NAIC	CS Code
(4 digits)	(4 di	gits)		(5 or 6 dig	its)		(5 or 6 dig	gits)	
2026	2024	1		311511			311520		
33. What is the Primary B		his entity? (D	o not repeat the SIC or	r NAICS desc	cription.)		**		
Milk Processing Plant		his entity? (D	o not repeat the SIC o	r NAICS desc	cription.)				
Milk Processing Plant			o not repeat the SIC o	r NAICS desc	cription.)				
Milk Processing Plant 34. Mailing	Business of t		o not repeat the SIC o	r NAICS desc	ription.)				
Milk Processing Plant	Business of t		o not repeat the SIC or	TX	ziption.)	76455	5	ZIP + 4	
Milk Processing Plant 34. Mailing	Business of t	y Road 252	State	1	1	76455	5	ZIP + 4	
Milk Processing Plant 34. Mailing Address:	Business of t	y Road 252 Gustine	State	TX	ZIP		s ber (if applical		

18. Telephone Number

Page 2 of 3 TCEQ-10400 (11/22)

☐ Dam Safet	У	Districts	☐ Edwards Aquifer	I	E E	missions Inventory Air	☐ Industrial Hazardous Wast	
☐ Municipal	Solid Waste	☐ New Source Review Air	OSSF	[☐ Petroleum		☐ PWS	
Sludge		Storm Water	☐ Title V Air	İ	Τί	ires	Used Oil	
☐ Voluntary	Cleanup		☐ Wastewater Agric	ulture [□ w	Vater Rights	Other:	
ECTIO	N IV: Pr	eparer Inf	<u>formation</u>					
10. Name:				41. Title: Consultant				
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Ma	il Ad	ldress		
254) 965-350	0		(254) 965-3500 cmullin@enviroag.com			oag.com		
. By my signatu	ure below, I certif						e, and that I have signature authorit entified in field 39.	
Company:	Natural D	Pairy Grower Land, LP		Job Title:		Owner		
Name (In Print): Andrew	Volleman, Partner for N	latural Dairy Grower Land,	LP		Phone:	(325) 667- 7266	
Signature:	a	A VIC				Date:	5/28/25	
							<i>y</i> - <i>y</i>	

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

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

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.)

Renewal	(Core Data i	Form sh <mark>ould be subm</mark> i	tted with the renewal fo	orm)		Other TLAP M	ajor Ame	ndment Appl	ication	
2. Customer CN 6043213		Number (if issued)	for CN o	this link to se or RN numbe tral Registry*	rs in					
			Informati	<u>on</u>	-					
4. General C	ustomer In	formation	5. Effective Date for	or Customer	Information	Updates (mm/dd	/уууу)		5/19/2025	
New Custo	mer	⊠ u	Cha	nge in Regulated Er	itity Own	ership				
☐Change in L	egal Name (Verifiable with the Te	xas Secretary of State o	r Texas Comp	troller of Publ	ic Accounts)				
		eller of Public Accou	ints (CPA). int last name first: eg: D	Poe, John)		If new Customer,	enter pre	evious Custom	er below:	
Natural Dairy (Grower Land	l, LP								
7. TX SOS/CP	A Filing Nu	ımber	8. TX State Tax ID ((11 digits)		9. Federal Tax	ID	10. DUNS	INS Number (if	
0801516789			32045916148			(9 digits)	applicable)			
l1. Type of C	ustomer:	☐ Corpora	tion		☐ Indiv	☐ Individual Partnership: ☐			neral 🛛 Limited	
iovernment: [City C	ounty 🗌 Federal 📗	Local State Oth	er	Sole	Sole Proprietorship Other:				
.2. Number	of Employe	ees				13. Independe	ntly Ow	ned and Op	erated?	
☑ 0-20	21-100] 101-250 251-	500 🔲 501 and high	her		⊠ Yes	□ No			
L4. Custome	r Role (Prop	oosed or Actual) – as i	t relates to the Regulate	ed Entity liste	d on this form	Please check one o	f the follo	owing		
⊠Owner □Occupation	al Licensee	Operator Responsible Pa	Owner & O	•		☐ Other	:			
15. Mailing	600 Coun	ty Road 252								
Address:	City	Gustine	Stat	te TX	ZIP	76455		ZIP + 4		
ւ6. Country I	Mailing Inf	ormation (if outside	USA)		17. E-Mail A	ddress (if applicab	le)			
					frank@wildca	tmilk.com				

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

18. Telephone Number			19. Extension or	Code		20. Fa	ax Num	ber (if a	pplicable)	
(325) 667-7266						() (%)			
SECTION III: I	Regula	ited Ent	ity Inform	ation						
21. General Regulated En	tity Informa	tion (If 'New Reg	ulated Entity" is selec	ted, a new p	ermit applica	ition is a	lso requi	ired.)		
New Regulated Entity [Update to	Regulated Entity	Name 🔲 Update to	o Regulated	Entity Inform	nation				
The Regulated Entity Nan as Inc, LP, or LLC).	ne s ubmitte o	d may be updat	ted, in order to mee	t TCEQ Coi	re Data Sta	ndards	(remov	al of or	ganization	al endings such
22. Regulated Entity Nam	e (Enter nam	e of the site wher	e the regulated action	is taking plo	ice.)					
Volleman Dairy Processing Pla	ant									
23. Street Address of										
the Regulated Entity:					1	76				
(No PO Boxes)	City		State		ZIP				ZIP + 4	
24. County	Comanche								=	
		If no Stree	et Address is provid	ed, fields 2	25-28 are re	quired				
25. Description to	The facility is	s located 0.6 mile	s West of the intersec	tion of State	Highway 36	and Cou	inty Road	d 1476 o	n the South	side of State
Physical Location:	Highway 36.	,								
26. Nearest City						State			Nea	rest ZIP Code
Gustine						TX			7645	55
Latitude/Longitude are re used to supply coordinate	•	-	•		Pata Stando	ards. (G	eocodii	ng of th	e Physical	Address may be
27. Latitude (N) In Decima	al:	31.847278		28. L	ongitude (\	W) In D	ecimal:		-98.43954	19
Degrees	Minutes		Seconds	Degre	es		Minute	es		Seconds
29. Primary SIC Code	30.	Secondary SIC	Code		ry NAICS Co	ode	3:	2. Seco	ndary NAIC	CS Code
(4 digits)	(4 di	gits)		(5 or 6 digi	ts)		(5	or 6 dig	gits)	
2026	2024	1		311511			3:	11520		
33. What is the Primary B	usiness of t	his entity? (Do	o not repeat the SIC or	NAICS desci	ription.)		,			
Milk Processing Plant										
34. Mailing	600 Count	y Road 252								
Address:										
Address.	City	Gustine	State	тх	ZIP	7645	5		ZIP + 4	
35. E-Mail Address:	fran	k@wildcatmilk.c	om			#		!		
36. Telephone Number			37. Extension or (Code	38. F	ax Nun	nber (if	applicab	ile)	- 1
(325) 667-7266				= =	() =				

TCEQ-10400 (11/22) Page 2 of 3

☐ Dam Safety						
		Districts	☐ Edwards Aquifer		Emissions Inventory Air	☐ Industrial Hazardous Wast
☐ Municipal Solid	Waste	☐ New Source Review Air	OSSF	0	Petroleum Storage Tank	☐ PWS
Sludge		Storm Water	☐ Title V Air		Tires	Used Oil
☐ Voluntary Clean	up		☐ Wastewater Agricul	ture	Water Rights	Other:
	[V: Pre rey Mullin	parer Int	<u>formation</u>	41. Title:	Consultant	
2. Telephone Nur	mber 4	43. Ext./Code	44. Fax Number	45. E-Mail /	Address	
254) 965-3500			(254) 965-8000	cmullin@env	iroag.com	
	elow, I certify, t	to the best of my kno	Signature owledge, that the information cition II, Field 6 and/or as rea	•	•	ete, and that I have signature authori identified in field 39.
	T	airy Processing Land	I, LP	Job Title:	Owner	
submit this form on	Volleman D		I, LP /olleman Dairy Processing La		Owner Phone:	(325) 667- 7266

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

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.)

Renewal (Core Data Form should be subm	itted with the renewal fo	orm)	⊠ c	Other TLAP Ma	jor Amer	ndment Appli	ation	
2. Customer I	Reference Number (if issued)		his link to sea or RN numbers		_				
CN 6056988	02	Centi	ral Registry**	RN	110849825				
ECTION	N II: Customer	Information	<u>on</u>						
4. General Cu	stomer Information	5. Effective Date fo	or Customer	nformation	formation Updates (mm/dd/yyyy) 5/19/2025				
New Custor	mer 🔯	Jpdate to Customer Info	Cha	nge in Regulated Ent	ity Owne	ership			
Change in Le	egal Name (Verifiable with the Te	exas Secretary of State or	r Texas Compt	oller of Publi	c Accounts)				
The Custome	r Name submitted here may	be updated automat	ically based	on what is d	current and active	with th	e Texas Secr	etary of State	
'SOS) or Texa	s Comptroller of Public Acco	unts (CPA).							
5. Customer I	Legal Name (If an individual, pr	int last name first: eg: De	oe, John)		If new Customer,	enter pre	vious Custome	er below:	
					1				
Volleman Dairy	Processing, LLC								
7. TX SOS/CP	A Filing Number	8. TX State Tax ID (2	11 digits)					Number (if	
0803372444		32071391141			(9 digits) applicable)				
11. Type of C	ustomer: 🔲 Corpora	ation		Indivi	☐ Individual Partn		ership: 🔲 General 🔲 Limited		
Government:	City County Federal	Local State Othe	er	Sole F	Proprietorship	Oth	ner:		
12. Number o	of Employees				13. Independen	tly Ow	ned and Ope	rated?	
○ 0-20	21-100 🗌 101-250 🔲 251	-500 501 and high	ner		⊠ Yes [☐ No			
14. Customer	Role (Proposed or Actual) – as	it relates to the Regulate	ed Entity listed	on this form.	Please check one of	the follo	wing		
	N 0			-					
☐Owner ☐Occupationa	☑ Operator al Licensee ☐ Responsible Pa	☐ Owner & O arty ☐ VCP/BSA	•		Other:				
45 84 '''	600 County Road 252								
15. Mailing									
Address:	City Gustine	Stat	e TX	ZIP	76455		ZIP + 4		
	Gustine	Stat	.e 1^	ZIP	/0433		21F T 4		
16. Country N	Mailing Information (if outside	· USA)		L7. E-Mail A	ddress (if applicable	2)			
					tmilk.com				

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18. Telephone Number	19	19. Extension or Code			20. Fax Number (if applicable)				
(325) 667-7266						() =			
SECTION III: I	Regula	ted Entity	Inform	ation					
21. General Regulated Ent	tity Informa	tion (If 'New Regulate	ed Entity" is select	ed, a new pe	ermit applica	ition is al	so required.)		
New Regulated Entity [Update to	Regulated Entity Name	e 🔲 Update to	Regulated	Entity Inform	nation			
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 Nam	e (Enter name	e of the site where the	regulated action	is taking pla	ce.)				
Volleman Dairy Processing Pla	ant								
23. Street Address of the Regulated Entity:									
		,				1721			
(No PO Boxes)	City		State		ZIP			ZIP + 4	
24. County	Comanche								
If no Street Address is provided, fields 25-28 are required.									
25. Description to	The facility is	s located 0.6 miles We	st of the intersect	ion of State	Highway 36	and Cou	nty Road 1476 o	n the South	side of State
Physical Location:	Highway 36.								
26. Nearest City						State		Nea	rest ZIP Code
Gustine	Gustine TX 76455								
Latitude/Longitude are re used to supply coordinate					ata Stando	ards. (Ge	eocoding of th	e Physical	Address may be
27. Latitude (N) In Decima	al:	31.847278		28. Lo	ongitude (V	V) In De	cimal:	-98.43954	9
Degrees	Minutes	Seco	nds	Degre	Degrees		Minutes		Seconds
29. Primary SIC Code	30.	Secondary SIC Code	1	31. Primar		ode	32. Seco	ndary NAIC	S Code
(4 digits)	(4 di	gits)	(5 or 6 digits)			(5 or 6 digits)			
2026	2024			311511			311520		
33. What is the Primary B	usiness of t	his entity? (Do not	repeat the SIC or	NAICS descr	ption.)				
Milk Processing Plant									
600 County Road 252 34. Mailing									
Address:									
	City Gustine		State	тх	ZIP	76455	5	ZIP + 4	
35. E-Mail Address:	fran	l k@wildcatmilk.com							
36. Telephone Number		37	. Extension or C	Code	38. F	ax Num	ber (if applicab	ole)	
(325) 667-7266	(325) 667-7266								

TCEQ-10400 (11/22) Page 2 of 3

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 New Source ☐ Municipal Solid Waste OSSF Petroleum Storage Tank □ PWS Review Air ☐ Sludge Storm Water ☐ Title V Air Tires Used Oil ☐ Voluntary Cleanup Wastewater Agriculture ☐ Water Rights Other: **SECTION IV: Preparer Information** 40. Name: Corey Mullin 41. Title: Consultant 42. Telephone Number 43. Ext./Code 45. E-Mail Address 44. Fax Number (254) 965-3500 (254) 965-8000 cmullin@enviroag.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: Volleman Dairy Processing, LLC Job Title: Operator Name (In Print): Andrew Volleman, Managing Member for Volleman Dairy Processing, LLC Phone: (325)667-7266 Signature: Date:

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A.C: PLAIN LANGUAGE SUMMARY

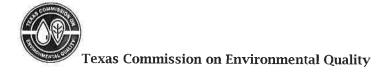
Individual Industrial Wastewater Application

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

Volleman Dairy Processing, located at 600 CR 252 in Gustine, Texas, is a specialty manufacturer of dairy food products that processes high-quality raw milk into grade A fluid milk and ice cream. The wastewater generated during operations is a mixture of captured wash water and various byproducts. This includes milk minerals, organic matter, and cleaning compounds that maintain a hygienic production environment. The wash water is collected from equipment and surfaces after cleaning processes, ensuring it is managed efficiently.

At Volleman Dairy Processing, the wastewater undergoes a thorough treatment process before being applied to the land. Collected wastewater from the plant is pumped into a treatment lagoon. This lagoon will feature an aeration system with a capacity of 5.5 million gallons and is equipped with a 300-horsepower aeration pump. After treatment, the effluent will flow by gravity into a 7.7 million-gallon storage lagoon, which will be applied to the fields at agronomically recommended rates.

A.D: PUBLIC INVOLVEMENT PLAN



Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening
New Permit or Registration Application X 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
X Requires public notice,
Considered to have significant public interest, <u>and</u>
Located within any of the following geographical locations:
 Austin Dallas Fort Worth Houston San Antonio West Texas Texas Panhandle Along the Texas/Mexico Border Other geographical locations should be decided on a case-by-case basis
If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.
Public Involvement Plan not applicable to this application. Provide brief explanation.

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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
X Texas Pollutant Discharge Elimination System (TPDES)
X 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.
,
Volleman Dairy Processing Plant is a Milk Processing Plant.

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.
Gustine
(City)
Comanche (County)
(Census Tract) Please indicate which of these three is the level used for gathering the following information. City County X Census Tract (a) Percent of people over 25 years of age who at least graduated from high school
88.9%
(b) Per capita income for population near the specified location \$24,810
(c) Percent of minority population and percent of population by race within the specified location White - 75.6%. Black or African American - 3.29%. Hispanic - 12.7%. Two or More Races - 2.11%. Other - 2.68%. Asian - 1.3%. Indian - 1.6%. Multiracial - 0.72%.
(d) Percent of Linguistically Isolated Households by language within the specified location 0%
(e) Languages commonly spoken in area by percentage
English - 89.4% Spanish - 10.6%
(f) Community and/or Stakeholder Groups N/A
(g) Historic public interest or involvement None

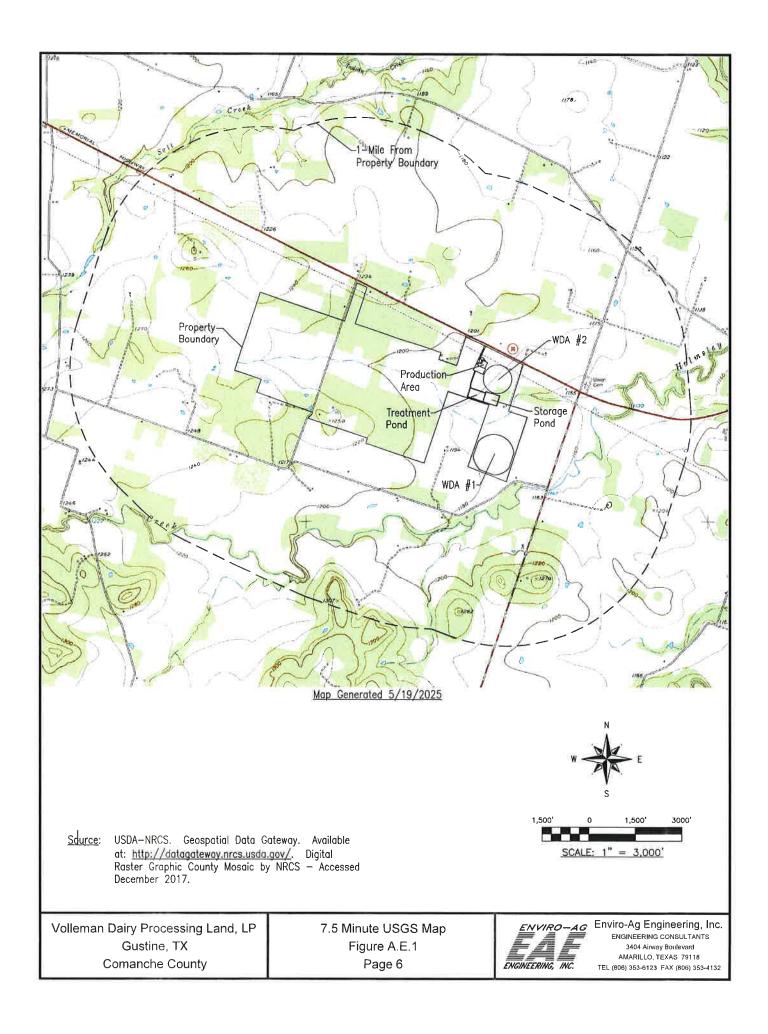
Section 6. Planned Public Outreach Activities
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?
X Yes No
(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?
Yes No
If Yes, 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?
Yublish in alternative language newspaper
Posted on Commissioner's Integrated Database Website
Mailed by TCEQ's Office of the Chief Clerk
Other (specify)

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A.E: 7.5-MINUTE USGS TOPOGRAPHIC QUADRANGLE

A.E.1 7.5-Minute USGS Topographic Quadrangle Map

Figure A.E.1, 7.5-Minute USGS Topographic Quadrangle Map, Is an original 7.5-Minute USGS Topographic Map of the Gustine, Texas Quadrangle. This map shows the production areas, irrigation sites and a 1-mile radius.



A.F: AFFECTED LANDOWNER INFORMATION

A.F.1 Adjacent Landowners Map

Figure A.F.1 shows the information required in item 1.a. of the Industrial Administrative Report 1.1. Property boundaries were obtained from the Comanche County Appraisal District Interactive Map as of May 2025. The tracts identified on the map correspond to Table A.F.1, below.

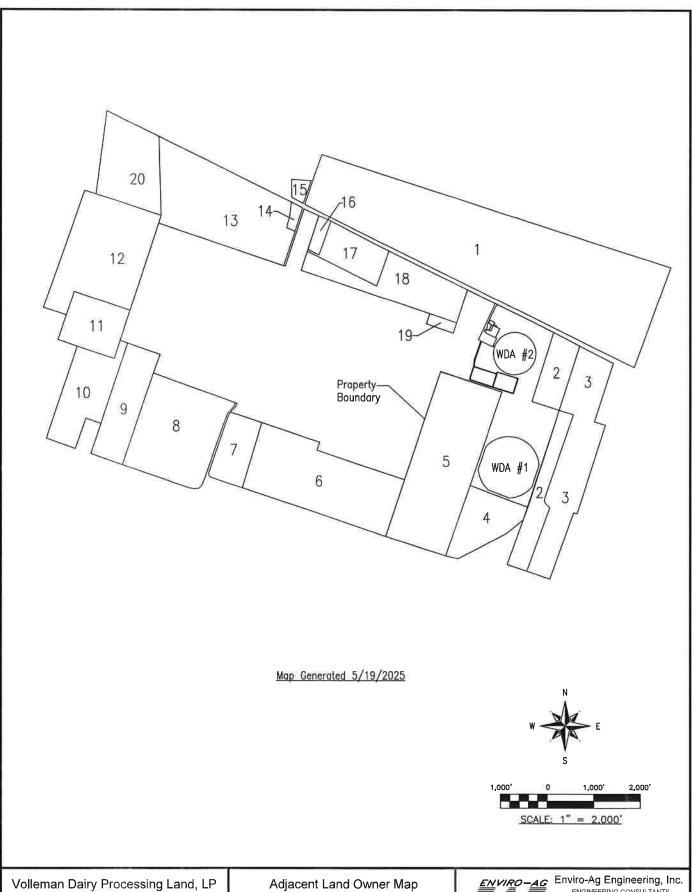
A.F.2 Landowners List

The landowner names and addresses presented in Table A.F.1 was obtained from the Comanche County Appraisal District Property Search web databases, retrieved 5/2025.

Table A.F.1. Adjacent Landowners

Map Property ID	Owner Name	Mailing Address
1	Gayland G & Julianna	7178 FM 1476
	Stephens	Gustine, TX 76455
2	Nancy Jo Tennison	5655 Philadelphia
		Ft. Worth, TX 76148
3	Rufus James Adcock & James	PO Box 53
	Littleton	Gustine, TX 76455
4	Kelly & Debbie Adcock	108 W Commerce St.
		Gustine, TX 76455
5	Robert H Murphy	451 CR 232
		Gustine, TX 76455
6	Myles TY McCullough	1701 CR 216
	_	Comanche, TX 76442
7	Timothy & Brenda Rothenbush	4727 Topaz Lane
		Granbury, TX 76049
8	Mid-Texas Veterinary	550 CR 230
	Associates, PC	Gustine, TX 76455
9	Curtis C Lackey	1251 CR 232
		Gustine, TX 76455
10	Suzanne A Mitchell	801 E Grand Ave.
		Comanche, TX 76442
11	James R Weaver	1401 CR 232
		Gustine, TX 76455
12	James W Littlejohn	PO Box 53
		Gustine, TX 76455
13	Randy E Couch	14670 HWY 36
		Gustine, TX 76455
14	Upper Leon River Municipal	2250 Hwy 2861
	Water	Comanche, TX 76442
15	Jaclyn Turley	130 CR 330
		Gustine, TX 76455
16	James F & Connie Ake	15050 Hwy 36
	McDougal	Gustine, TX 76455
17	Harvey Est & Janet White	15100 Hwy 36

Map Property ID	Owner Name	Mailing Address
		Gustine, TX 76455
18	Darla Carol Moore	751 CR 340 Dublin, TX 76446
19	Carmen & Lance Landman	PO Box 86 Gustine, TX 76455
20	James & Penny Lou	1425 Haven Dr. Comanche, TX 76442



Volleman Dairy Processing Land, LP Gustine, TX Comanche County

Figure A.F.1 Page 9



ENGINEERING CONSULTANTS 3404 Airway Boulevard

AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132

A.G: PHOTOGRAPHS

A.G.1 Photograph Location Map

Figure A.G.1, Photograph Location Map, shows the location of each photograph and the direction the camera was facing when the photograph was taken.

A.G.2 Photographs

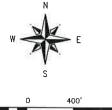
Figures A.G.2a-b, Photographs, are original photographs of the proposed effluent disposal sites and production area.



Map Generated 5/19/2025

Legend:

Denotes Location of Photograph



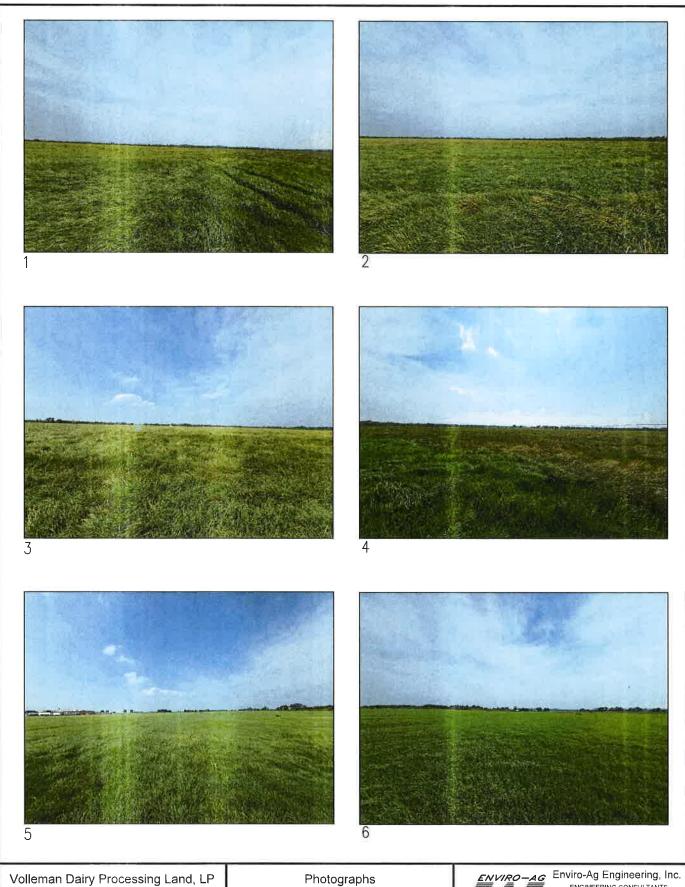
Source: USDA-NRCS. Geospatial Data Gateway. Available at: http://datagateway.nrcs.usda.gov/. Digital Raster Graphic County Mosaic by NRCS - Accessed December 2017.

Volleman Dairy Processing Land, LP Gustine, TX Comanche County

Photograph Location Map Figure A.G.1 Page 11



Enviro-Ag Engineering, Inc. ENGINEERING CONSULTANTS 3404 Airway Boulevard AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132



Volleman Dairy Processing Land, LP Gustine, Texas Comanche County Photographs Figure A.G.2a Page 12



Enviro-Ag Engineering, Inc.
ENGINEERING CONSULTANTS
3404 Airway Boulevard
AMARILLO, TEXAS 79118
TEL (806) 353-6123 FAX (806) 353-4132



Volleman Dairy Processing Land, LP Gustine, Texas Comanche County

Photographs Figure A.G.2b Page 13



ENVIRO AG Enviro-Ag Engineering, Inc.
ENGINEERING CONSULTANTS
3404 Airway Boulevard
AMARILLO, TEXAS 79118
TEL (806) 353-6123 FAX (806) 353-4132

COTEXAS COMMISSION ON ENVIRONMENTAL QUALITY



INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional** information or clarification on the requested information, please refer to the <u>Instructions for Completing the Industrial Wastewater Permit Application</u> available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. If an item does not apply to the facility, enter N/A to indicate that the item has been considered. Include separate reports or additional sheets as clearly cross-referenced attachments and provide the attachment number in the space provided for the item the attachment addresses.

NOTE: This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

Volleman Dairy Processing is a specialty manufacturer of dairy food products that processes high-quality raw milk into grade A fluid milk and ice cream. This facility's SIC codes are 2024 and 2026, while the corresponding NAICS codes are 311511 for fluid milk manufacturing and 311520 for ice cream and frozen dessert manufacturing.

b. Describe all wastewater-generating processes at the facility.

At Volleman Dairy Processing, the wastewater generated during operations is a mixture of captured wash water and various byproducts. This includes milk minerals, organic matter, and cleaning compounds that maintain a hygienic production environment. The wash water is collected from equipment and surfaces after cleaning processes, ensuring it is managed efficiently.

 $\frac{https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_st}{eps.html}$

Materials 1	List								
Raw Mat	terials			Inte	rmediate Products]	Final Products		
Raw Mill	K			N/A	<u> </u>]	Fluid Milk		
]	Ice Cream		
• Proand • The surface • Attack	oduction d water le location mps, im tfall location hment: [] a new p	areas intake on of e pound ations. C.A Dermit	, mainte structu ach uni ments, applica No	enanceres. Tof the outfair	ne WWTP including t	ndling a he locati ints, if si	mation: reas, waste-disposal areas, on of wastewater collection gnificantly different from		
							a 100 year fragues as flood		
f. Is/will level.	i the tre	atmen	t raciiity	/ uisp	osai site de locateu a	above th	e 100-year frequency flood		
\boxtimes	Yes		No						
List so	ource(s)	used t	o deterr	nine i	100-year frequency f	lood pla	in: Click to enter text.		
protec	ctive me	asures	are use	d/pro	oposed to prevent flo	ooding (i	lain and describe what ncluding tail water and l area: Click to enter text.		
Attacl	hment: [<u>Г.В</u>							
_		-		_	ermit applications, wo	-	onstruction operations resul		
	Yes	\boxtimes	No		N/A (renewal only)	1			

h.	If yes to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?
	□ Yes □ No
	If yes , provide the permit number: Click to enter text.
	If no , provide an approximate date of application submittal to the USACE: Click to enter text.
It	em 2. Treatment System (Instructions, Page 40)
a.	List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.
	At Volleman Dairy Processing, the wastewater undergoes a thorough treatment process before being applied to the land. Collected wastewater from the plant is pumped into a treatment lagoon. This lagoon will feature an aeration system with a capacity of 5.5 million gallons and is equipped with a 300-horsepower aeration pump. After the treatment process, the effluent will flow by gravity into a 7.7 million-gallon storage lagoon, from which it will be applied to the fields at agronomically recommended rates.
b.	Attach a flow schematic with a water balance showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.
	Attachment: T.A & T.H
It	em 3. Impoundments (Instructions, Page 40)
Do	es the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)
	⊠ Yes □ No
3.6	no, proceed to Item 4. If yes, complete Item 3.a for existing impoundments and Items 3.a - e for new or proposed impoundments. NOTE: See instructions, Pages 40-42, for additional formation on the attachments required by Items 3.a – 3.e.
a.	Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.
	Use Designation: Indicate the use designation for each impoundment as Treatment (T),

Disposal (**D**), Containment (**C**), or Evaporation (**E**).

Associated Outfall Number: Provide an outfall number if a discharge occurs or will occur.

Liner Type: Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Leak Detection System: If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

Groundwater Monitoring Wells and Data: If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

Dimensions: Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

Compliance with 40 CFR Part 257, Subpart D: If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter Y for yes. Otherwise, enter N for no.

Date of Construction: Enter the date construction of the impoundment commenced (mm/dd/yy).

Impoundment Information

Pond #	Pond #	Pond #	Pond #	
Treatment	Storage			
T-1	S-2			
С	С			
N/A	N/A			
N	N			
N	N			
N/A	N/A			
Y	Y			
548	480			
287	355			
6	12			
2	2			
3.56	3.36			
5,751,252	7,681,345			
N	N			
6/9/2020	Proposed			
	Treatment T-1 C N/A N N N N/A Y 548 287 6 2 3.56 5,751,252 N	Treatment Storage T-1 S-2 C C N/A N/A N N N/A N/A Y Y 548 480 287 355 6 12 2 2 3.56 3.36 5,751,252 7,681,345 N N	Treatment Storage T-1 S-2 C C C N/A N/A N N N N N N N N N/A N/A Y Y 548 480 287 355 6 12 2 2 3.56 3.36 5,751,252 7,681,345 N N	

Attachment: T.C

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

b.	ite		If attache				ents, attach any available information on the following ne appropriate box. Otherwise, check no or not yet
	1.	Line	er data				
		\boxtimes	Yes		No		Not yet designed
	2.	Lea	k detecti	on sy	/stem or	grou	ındwater monitoring data
			Yes	\boxtimes	No		Not yet designed
	3.	Gro	undwate	er imj	pacts		
			Yes	\boxtimes	No		Not yet designed
					-		the bottom of the pond is not above the seasonal highwater-bearing zone.
	At	tach	ment: Cl	ick to	o enter t	ext.	
Fo	r T	LAP	applicati	ions:	Items 3	.c - 3	s.e are not required , continue to Item 4.
c.	an	d ide		ll kn			oy of original quality and scale which accurately locates pply wells and monitor wells within ½-mile of the
	At	tach	ment: Cl	ick to	o enter t	ext.	
d.	Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description o how the depths to groundwater were obtained.						
	At	tach	ment: Cl	ick to	o enter t	ext.	
e.	as	sess	the pote	ntial	for migi	ation	the groundwater, soils, geology, pond liner, etc. used to n of wastes from the impoundments or the potential for surface water.
	At	tach	ment: Cl	ick to	o enter t	ext.	

Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
I1	31°50'22.09"N	98°26'20.76"W
I2	31°50'46.04"N	98°26'18.59"W
T-1	31°50'42.63"N	98°26'29.34"W
S-1	31°50'39.30"N	98°26'21.18"W

Outfall Location Description

Outfall No.	Location Description		
I1	Located south of the storage lagoon.		
I2	Located north of the storage lagoon.		
T-1	Located south of the processing plant		
S-1	Located south of the processing plant		

Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point

Outfall Flow Information - Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
I1	0.035	N/A	0.100	N/A	1/1/2026
I2	N/A	N/A	0.100	N/A	1/1/2026
T-1	0.035	N/A	0.100	N/A	1/1/2026
S-1	N/A	N/A	0.100	N/A	1/1/2026

Outfall Discharge - Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
I1	Y	N	Flow Meter
I2	Y	N	Flow Meter
T-1	Y	N	Flow Meter
S-1	Y	N	Flow Meter

Outfall Discharge - Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
I1	Y	N	Y	24	31	12
I2	Y	N	Y	24	31	12
T-1	Y	N	Y	24	31	12
S-1	Y	N	Y	24	31	12

Outfall Wastestream Contributions

Outfall No. T-1

Volume (MGD)	Percent (%) of Total Flow	
0.100	100	

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow	

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow	

Attachment: Click to enter text.

Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

a.	Indi	cate i	f the	facility	currently or proposes to:
		Yes	\boxtimes	No	Use cooling towers that discharge blowdown or other wastestreams

- \square Yes \boxtimes No Use boilers that discharge blowdown or other wastestreams
- ☐ Yes ☒ No Discharge once-through cooling water

NOTE: If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 **is required**.

- b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.
 - Manufacturers Product Identification Number
 - Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
 - Chemical composition including CASRN for each ingredient
 - Classify product as non-persistent, persistent, or bioaccumulative
 - Product or áctive ingredient half-life
 - Frequency of product use (e.g., 2 hours/day once every two weeks)
 - Product toxicity data specific to fish and aquatic invertebrate organisms
 - Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

Attachment: Click to enter text.

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)	
Cooling Towers				
Boilers				

Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at $40 \ CFR \ \S \ 122.26(b)(14)$, commingled with any other wastestream?

□ Yes ⊠ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: Click to enter text.

Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

Domestic Sewage - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

- a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.
 - ☑ Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.
 - □ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.
 - □ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.
 - ☐ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.
 - ☐ Facility is a POTW. Complete Worksheet 5.0.
 - ☐ Domestic sewage is not generated on-site.
 - □ Other (e.g., portable toilets), specify and Complete Item 7.b: Click to enter text.
- b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
Alamo Septic	25395

Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

a.	Is the	he per orcem	mitt ent?	ee currently required to meet any implementation schedule for compliance o
		Yes	\boxtimes	No
b.	Has	the p	ermi	ittee completed or planned for any improvements or construction projects?
		Yes	\boxtimes	No
c.				r 8.a or 8.b, provide a brief summary of the requirements and a status to enter text.
It	em	9.	Гох	icity Testing (Instructions, Page 45)
				cal tests for acute or chronic toxicity been made on any of the discharges or ter in relation to the discharge within the last three years?
		Yes	\boxtimes	No
[f	yes,	identi	fy th	e tests and describe their purposes: Click to enter text.
				ch a copy of all tests performed which have not been submitted to the TCECent: Click to enter text.
It	em	10.	Of	f-Site/Third Party Wastes (Instructions, Page 45)
a.		osal	on-si	ne facility receive wastes from off-site sources for treatment at the facility, te via land application, or discharge via a permitted outfall?
			es	⊠ No
				responses to Items 10.b through 10.d below. to Item 11.
b.	Atta	ach th	e fol	lowing information to the application:
		List of waste		tes received (including volumes, characterization, and capability with on-site
		Identi genera		e sources of wastes received (including the legal name and addresses of the).
	•	Descri	iptio:	n of the relationship of waste source(s) with the facility's activities.
	Atta	achme	ent: (Click to enter text.
С.	with	n this	facil	ewater from another TCEQ, NPDES, or TPDES permitted facility commingled ity's wastewater after final treatment and prior to discharge via the final of disposal?
		□ Y	es	□ No
				e the name, address, and TCEQ, NPDES, or TPDES permit number of the acility and a copy of any agreements or contracts relating to this activity.

Attachment: Click to enter text.

	required to have an approved pretreatment program under the NPDES/TPDES program?								
If w	□ voc. We	Yes vrkeboot	□ 60a	No f this	maliant	ion is re	anirad		
Ite	em 1	1. Ra	soik	ctiv	e Mat	erials	(Instru	lC	tions, Page 46)
a.	Are/w	ill radio	active	mater	ials be r	nined, u	sed, stored	l, o	or processed at this facility?
		Yes	\boxtimes	No					
									one analysis of the effluent for all lts in pCi/L.
_					ed, Stor	ed, or Pro	ocessed		
Ka	laioaci	tive Mat	eriai i	Name				-	Concentration (pCi/L)
_									
								+	
_									
	If yes, radioa inform	use the ctive ma	terial ovide	s that i d in re	may be sponse	present. to Item	Provide res		one analysis of the effluent for all lts in pCi/L. Do not include
Ra	dioact	tive Mat	erial l	Vame				(Concentration (pCi/L)
					J.				
Ite	m 1	2. Co	olin	g Wa	ter (I	nstru	ctions,	Pa	age 46)
									g purposes?
u.	D0€3 €	Yes	.y usc	or pro	pose te	use wat	cr for coon	11115	g purposes:
		No							
		Decom	missi	oned: (Click to	enter te	xt.		
		To Be I	Decon	nmissi	oned: Cl	lick to er	iter text.		
	If yes ,	complet	e Iter	ns 12.k	thru 1	2.f. If no	, stop here.	·	

	If 1	to be deco r	nmissi	ioned, j	provide	the date op	eration	is anticipated to ce	ase and stop here.		
b.	Co	oling water	is/wil	l be ob	tained f	from a grou	ndwater	source (e.g., on-site	e well).		
		⊠ Yes		No							
	If	yes , stop he	ere. If ı	no , con	tinue.						
c.	Со	Cooling Water Supplier									
	1.					(s) and oper ses to the f		or the CWIS that su	pplies or will		
Co	olin	g Water Inta	ike Stri	acture(s) Owner	r(s) and Oper	rator(s)				
		SID									
	wn										
O	per	ator									
	2.	Cooling wa	ater is/	/will be	obtain	ed from a P	ublic Wa	ter Supplier (PWS)			
			No		Yes; P	WS No.: Clic	k to ente	er text.			
		If no , continue. If yes , provide the PWS Registration No. and stop here.									
	3.	Cooling wa	ater is,	/will be	obtain	ed from a re	eclaimed	water source?			
			No		Yes; A	uth No.: Cli	ck to ent	er text.			
		If no , cont	inue. I	f yes , p	rovide	the Reuse A	uthoriza	ation No. and stop	here.		
	4.	Cooling wa	ater is/	/will be	obtain	ed from an	Indepen	dent Supplier			
			No		Yes; A	IF:_Click to	enter tex	t.			
								aal intake flow of the er for cooling purp			
d.	31	6(b) Genera	ıl Crite	ria							
1. The CWIS(s) used to provide water for cooling purposes to the facility has or cumulative design intake flow of 2 MGD or greater.								has or will have a			
			Yes		No						
	2.					withdrawn l es on an ann		WIS(s) is/will be uso age basis.	ed at the facility		
			Yes		No						
	3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in 40 CF 122.2.										
			Yes		No. Ex	planation: <u></u> C	lick to e	nter text.			
						f how the w 40 CFR § 12		y does not meet the	e definition of		

If **decommissioned**, provide the date operation ceased and stop here.

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to Item 12.e. e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) and uses/proposes to use cooling towers. Yes □ No If yes, stop here. If no, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPI. f. Oil and Gas Exploration and Production 1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D. □ Yes □ No If **ves**, continue. If **no**, skip to Item 12.g. 2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u). Yes No If yes, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3. Compliance Phase and Track Selection 1. Phase I - New facility subject to 40 CFR Part 125, Subpart I □ Yes □ No If ves, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2. Track I - AIF greater than 2 MGD, but less than 10 MGD • Attach information required by 40 CFR §§ 125.86(b)(2)-(4). Track I - AIF greater than 10 MGD • Attach information required by 40 CFR § 125.86(b). Track II Attach information required by 40 CFR § 125.86(c). Attachment: Click to enter text. 2. Phase II - Existing facility subject to 40 CFR Part 125, Subpart J Yes No If yes, complete Worksheets 11.0 through 11.3, as applicable. 3. Phase III - New facility subject to 40 CFR Part 125, Subpart N Yes No

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject

to the full requirements of Section 316(b) of the CWA. Proceed to Item 12.f.

	If y inf	res , check the box next to the compliance track selection and provide the requested ormation.
		Track I - Fixed facility
		• Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.
		Track I - Not a fixed facility
		• Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).
		Track II - Fixed facility
		• Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.
	Att	achment: Click to enter text.
Ite	em 1	3. Permit Change Requests (Instructions, Page 48)
Thi	s item	is only applicable to existing permitted facilities.
a.	Is the	facility requesting a major amendment of an existing permit?
	\boxtimes	Yes 🗆 No
	inform	list each request individually and provide the following information: 1) detailed action regarding the scope of each request and 2) a justification for each request. any supplemental information or additional data to support each request.
	flow f	asing the application areas from 31 acres to 46 acres, increasing the average daily from 35,000 gallons per day to 100,000 gallons per day, increasing the hydraulic cation rate from 1.27 acre-feet per acre irrigated per year to 2.44 acre-feet per acre ted per year, and a new 7.7 million gallon storage pond.
b.	Is the f	facility requesting any minor amendments to the permit?
		Yes 🗵 No
	If yes ,	list and describe each change individually.
		to enter text.
C.	Is the f	acility requesting any minor modifications to the permit? Yes No

If **yes**, list and describe each change individually.

Click to enter text.

Item 14. Laboratory Accreditation (Instructions, Page 49)

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

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

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

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

CERTIFICATION:

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

Printed Name: <u>Frank Volleman</u>

Title: Managing Member for Volleman Dairy Processing, LLC

Signature:

Date: 5/21/25

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND APPLICATION OF EFFLUENT

This worksheet is **required** for all applications for a permit to disposal of wastewater by land application (i.e., TLAP)).

Item 1. Type of Disposal System (Instructions, Page 69)

Check the box next to the type of land disposal requested by this application:

\boxtimes	Irrigation	Subsurface application
	Evaporation	Subsurface soils absorption
	Evapotranspiration beds	Surface application
	Drip irrigation system	Other, specify: Click to enter text.

Item 2. Land Application Area (Instructions, Page 69)

Land Application Area Information

Effluent Application (gallons/day)	Irrigation Acreage (acres)	Describe land use & indicate type(s) of crop(s)	Public Access? (Y/N)
100,000	46	Coastal bermudagrass is the primary crop, and wheat is the cool-weather crop.	N

Item 3. Annual Cropping Plan (Instructions, Page 69)

Attach the required cropping plan that includes each of the following:

- Cool and warm season plant species
- Breakdown of acreage and percent of total acreage for each crop
- Crop growing season
- Harvesting method/number of harvests
- Minimum/maximum harvest height
- Crop yield goals
- Soils map
- Nitrogen requirements per crop
- Additional fertilizer requirements
- Supplemental watering requirements
- Crop salt tolerances

Justification for not removing existing vegetation to be irrigated

Attachment:T.D.

Item 4. Well and Map Information (Instructions, Page 70)

- a. Check each box to confirm the required information is shown and labeled on the attached USGS map:
 - ☐ The exact boundaries of the land application area

 - Waste-disposal or treatment facilities
 - □ Effluent storage and tailwater control facilities
 - □ Buffer zones
 - All surface waters in the state onsite and within 500 feet of the property boundaries
 - \boxtimes All water wells within ½-mile of the disposal site, wastewater ponds, or property boundaries
 - All springs and seeps onsite and within 500 feet of the property boundaries Attachment: T.E
- b. List and cross reference all water wells located on or within 500 feet of the disposal site, wastewater ponds, or property boundaries in the following table. Attach additional pages as necessary to include all of the wells.

Well and Map Information Table

Well ID	Well Use	Producing? Y/N/U	Open, cased, capped, or plugged?	Proposed Best Management Practice
1	Domestic	Y	Cased	150' Buffer
2	Domestic	Y	Cased	150' Buffer
3	Domestic	Y	Cased	150' Buffer
4	Domestic	Y	Cased	150' Buffer
5	Irrigation	Y	Cased	150' Buffer
24	Plugged	N	Plugged	Plugged
25	Plugged	N	Plugged	Plugged
26	Domestic	Y	Cased	150' Buffer
27	Domestic	Y	Cased	150' Buffer
28	Domestic	Y	Cased	150' Buffer

Attachment: T.E

C.	Groundwater monitoring wells or lysimeters are/will be installed around the land
	application site or wastewater ponds.

□ Yes ⊠ No

If **yes**, provide the existing/proposed location of the monitoring wells or lysimeters on the site map attached for Item 4.a. Additionally, attach information on the depth of the wells or lysimeters, sampling schedule, and monitoring parameters for TCEQ review, possible modification, and approval.

Attachment: Click to enter text.

d. Attach a short groundwater technical report using 30 TAC § 309.20(a)(4) as guidance.

Attachment: T.F

Item 5. Soil Map and Soil Information (Instructions, Page 71)

Check each box to confirm that the following information is attached:

- a. \boxtimes USDA NRCS Soil Survey Map depicting the area to be used for land application with the locations identified by fields and crops.
- b. 🛮 Breakdown of acreage and percent of total acreage for each soil type.
- **c.** ⊠ Copies of laboratory soil analyses. **Attachment:** <u>T.G</u>

Item 6. Effluent Monitoring Data (Instructions, Page 72)

a. Completion of Table 14 is required for all renewal and major amendment applications. Complete the table with monitoring data for the previous two years for all parameters regulated in the current permit. An additional table has been provided with blank headers for parameters regulated in the current permit which are not listed in Table 14.

Table 13 for Outfall No.: <u>T-1</u>	Samples are (check one): 🗆	Composite	\boxtimes	Grab
--------------------------------------	----------------------------	-----------	-------------	------

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
04/2023	25,916	622	415	(2)	•	31	1.31
05/2023	34,732	1/21	(<u>2</u>)	×	-	31	1.54
06/2023	48,973	291	1170		15.	31	5.63
07/2023	40,861	-	-	752	-	31	4.57
08/2023	40,683	195	332	*	i.e.:	31	2.58
09/2023	22,978	<u></u>	=	e3	=:	31	0.00
10/2023	21,192	æ		190	i e	31	2.39
11/2023	21,543		=	(A)	:e:	31	0.00
12/2023	21,462	684	780	ie):	→ :	31	2.71
01/2024	18,958	-		e r o	-	31	1.71
02/2024	20,321	574	433		-	31	4.07
03/2024	20,705	566	447	-	E±C	31	0.00
04/2024	22,297	302	553	ia.	4:	31	3.95
05/2024	18,796	431	182	2 <	(4)	31	0.63
06/2024	17,993	=	*	2		31	3.97

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
07/2024	16,993	1950	367	7 <u></u>	9	31	1.05
08/2024	17,756	281	867	*	i.e.	31	1.05
09/2024	21,253	360	513			31	2.29
10/2024	35,187	256	667	.#s	se:	31	2.85
11/2024	27,736	200	807	2 3 1		31	2.72
12/2024	49,658	-	ve:		-	31	4.20
01/2025	41,122	700	567	•	-	31	4.72
02/2025	45,607	i e) -		Is = '	31	0.30
03/2025	45,113	878	587	:	*	31	5.75
04/2025	46,486	915	640		:#:	31	1.74

b. Use this table to provide effluent analysis for parameters regulated in the current permit which are not listed in Table 14.

Additional Parameter Effluent Analysis

Date (mo/yr)				

Date (mo/yr)				

c. Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken. Attachment: <u>Click to enter text.</u>

Item 7. Pollutant Analysis (Instructions, Page 72)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 4/16/2025-5/7/2025
- b. \boxtimes Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

Samples are (check one): ☐ Composite

c. Complete Tables 15 and 16.

Table 14 for Outfall No.: T-1

tuble 14 for Outlan No.: 1-1	oumpi	es are (check on	compos	ite 🖾 Giab
Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	915	933	919	867
CBOD (5-day)	1010	1000	954	927
Chemical oxygen demand	1760	1690	1720	1600
Total organic carbon	418	406	343	313
Dissolved oxygen	1.23	0.940	1.42	0.650
Ammonia nitrogen	24.4	19	13.3	9.25
Total suspended solids	640	627	640	527
Nitrate nitrogen	ND	ND	ND	ND
Total organic nitrogen	51.1	51.6	50.7	55.8

Grab

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total phosphorus	13.9	14.6	12.4	11.7
Oil and grease	ND	ND	ND	ND
Total residual chlorine	ND	ND	ND	3.04
Total dissolved solids	2900	2780	2240	2960
Sulfate	7.61	44.8	40.4	57.2
Chloride	894	793	796	753
Fluoride	0.611	ND	ND	0.741
Total alkalinity (mg/L as CaCO3)	835	773	767	740
Temperature (°F)				
pH (standard units)	7.67	7.98	7.77	7.89

Table 15 for Outfall No.: <u>T-1</u> Samples are (check one): □ Composite ⊠ Grab

Tuble 13 for Outlan No. 11			e (check one).		ite 🖾 Grab
Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	0.497	0.535	0.524	ND	2.5
Antimony, total	ND	ND	ND	ND	5
Arsenic, total	ND	ND	ND	ND	0.5
Barium, total	0.125	0.127	0.123	0.111	3
Beryllium, total	ND	ND	ND	ND	0.5
Cadmium, total	ND	ND	ND	ND	1
Chromium, total	ND	ND	ND	ND	3
Chromium, hexavalent	ND	ND	ND	ND	3
Chromium, trivalent	0.00431	0.00303	0.00747	ND	N/A
Copper, total	0.0114	ND	ND	ND	2
Cyanide, available	ND	ND	ND	ND	2/10
Lead, total	ND	ND	ND	ND	0.5
Mercury, total	ND	ND	ND	ND	0.005/0.0005
Nickel, total	ND	ND	0.0356	ND	2
Selenium, total	ND	ND	ND	ND	5
Silver, total	ND	ND	ND	ND	0.5
Thallium, total	ND	ND	ND	ND	0.5
Zinc, total	0.120	0.0610	0.0764	0.0639	5.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND APPLICATION AND APPLICATION

This worksheet is **required** for all applications for a permit to disposal of wastewater by surface land application or evaporation.

Item 1. Edwards Aquifer (Instructions, Page 73)

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

 ☐ Yes ☒ No

 If no, proceed to Item 2. If yes, complete Items 1.b and 1.c.
 b. Check the box next to the subchapter applicable to the facility.

 ☐ 30 TAC Chapter 213, Subchapter A

 ☐ 30 TAC Chapter 213, Subchapter B
 c. If 30 TAC Chapter 213, Subchapter A applies, attach either: 1) a Geologic Assessment (if conducted in accordance with 30 TAC § 213.5) or 2) a report that contains the following:
 - A description of the surface geological units within the proposed land application site and wastewater pond area.
 - The location and extent of any sensitive recharge features in the land application site and wastewater pond area
 - A list of any proposed BMPs to protect the recharge features.

Attachment: Click to enter text.

Item 2. Surface Spray/Irrigation (Instructions, Page 73)

a. Provide the following information on the irrigation operations:

Area under irrigation (acres): 46

Design application rate (acre-ft/acre/yr): 2.44

Design application frequency (hours/day): 24

Design application frequency (days/week): 7

Design total nitrogen loading rate (lbs nitrogen/acre/year): 400

Average slope of the application area (percent): 1.85

Maximum slope of the application area (percent): 3.1

Irrigation efficiency (percent): 85

Effluent conductivity (mmhos/cm): 1.5

Soil conductivity (mmhos/cm): 8.0

Curve number: 71

Describe the application method and equipment: Center Pivot Irrigation System

b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance. **Attachment:** T.H

Item 3. Evaporation Ponds (Instructions, Page 74)

- a. Daily average effluent flow into ponds: Click to enter text. gallons per day
- b. Attach a separate engineering report of evaporation calculations for average long-term and worst-case critical conditions. **Attachment:** Click to enter text.

Item 4. Evapotranspiration Beds (Instructions, Page 74)

a. Provide the following information on the evapotranspiration beds:

Number of beds: Click to enter text.

Area of bed(s) (acres): Click to enter text.

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

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds (include units): Click to enter text.

Description of any lining to protect groundwater: Click to enter text.

- b. Attach a certification by a licensed Texas professional engineer that the liner meets TCEQ requirements. **Attachment:** Click to enter text.
- c. Attach a separate engineering report with water balance, storage volume calculations, and description of the liner. **Attachment:** <u>Click to enter text.</u>

Item 5. Overland Flow (Instructions, Page 74)

a. Provide the following information on the overland flow:

Area used for application (acres): Click to enter text.

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

Design application rate (gpm/foot of slope width): Click to enter text.

Slope length (feet): Click to enter text.

Design BOD5 loading rate (lbs BOD5/acre/day): Click to enter text.

Design application frequency (hours/day): Click to enter text.

Design application frequency (days/week): Click to enter text.

b. Attach a separate engineering report with the method of application and design requirements according to *30 TAC § 217.212*. **Attachment**: Click to enter text.

INDUSTRIAL TECHNICAL REPORT

Attachments

Prepared For:



Volleman Dairy Processing Land, LP 600 County Road 252 Gustine, Texas 76455

Prepared By:



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T.A: FACILITY MAPS

T.A.1 Process Flow Diagram

Figure T.A.1, Process Flow Diagram, provides an overall schematic of the processes at the site.

T.A.2 Vicinity Map

Figure T.A.2, Vicinity Map, is a general highway map generated in AutoCAD using Tiger Primary and Secondary roads data from the geospatial Data Gateway at http://datagateway.nrcs.usda.gov/ (retrieved 2017). The location of the facility is depicted on the map.

T.A.3 7.5 Minute USGS Map

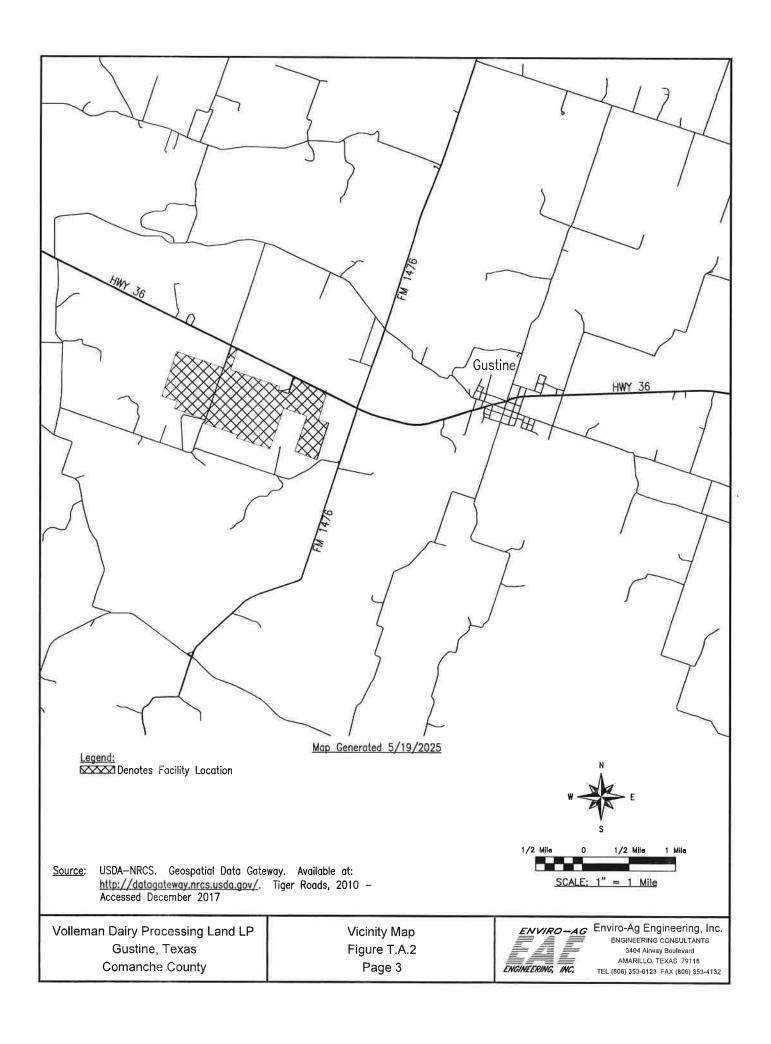
Figure T.A.3, entitled 7.5 Minute USGS Map, is a seamless, high-quality copy of the 7.5-Minute USGS quadrangle map (Gustine, TX quadrangle) that shows the boundary of the land owned, operated, or controlled by the facility and used as part of the application; and all springs, lakes, or ponds located on-site and within 1 mile of the property boundary.

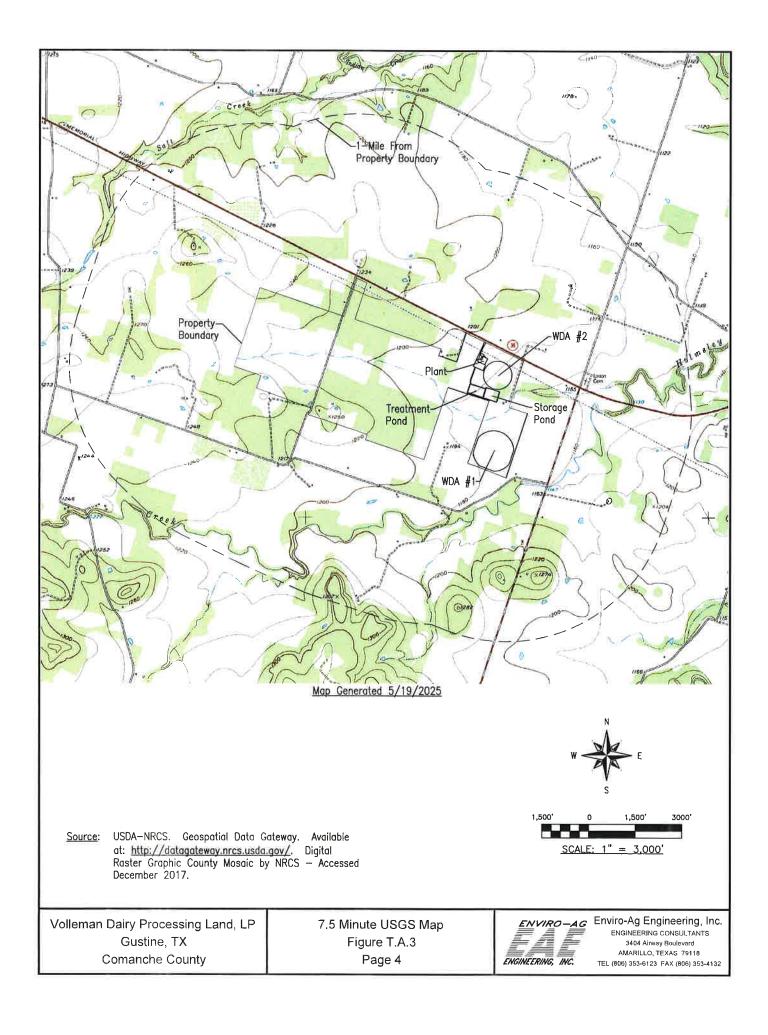
T.A.4 Site Map

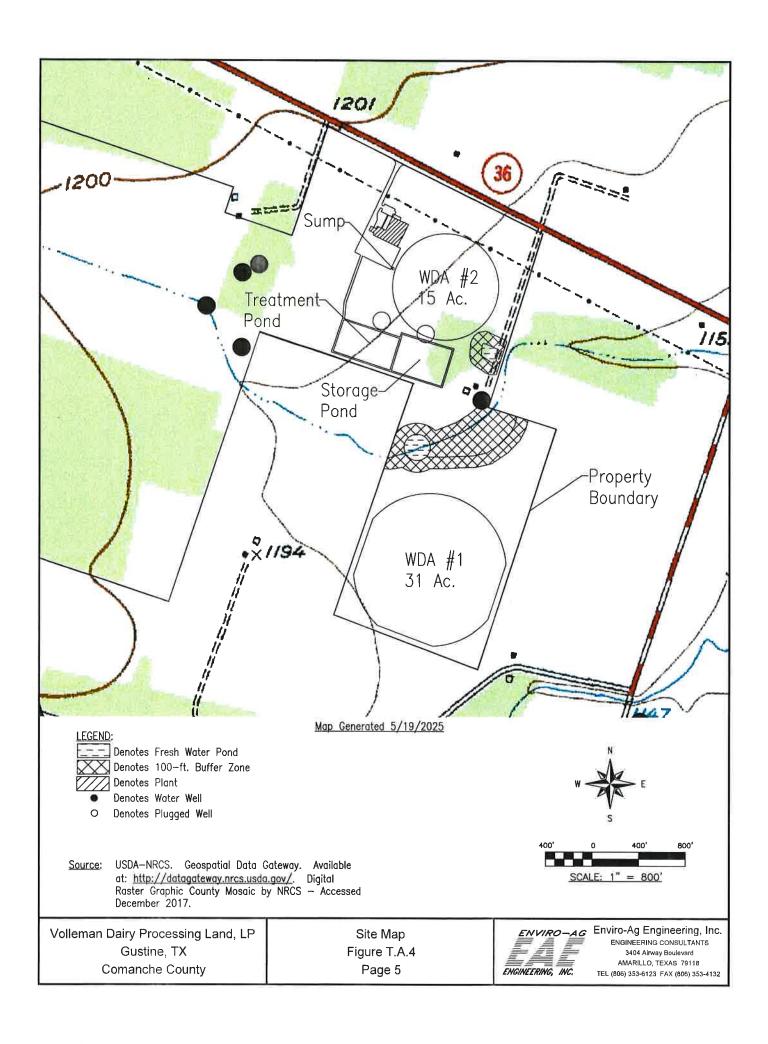
Figure T.A.4, Site Map, is a scaled drawing of the entire property to be permitted, showing the locations of the following:

- Production Area
- Treatment Pond
- Storage Pond
- Waste Disposal Areas
- Buffer Zones
- Freshwater Ponds
- Onsite Water Wells
- Collection Sump

ENVIRO—4G Enviro-Ag Engineering, Inc.
ENGINEERING CONSULTAITS
3404 Ainway Boulevard
AMARILLO, TEXAS 79118
ENGINEERING, INC.
TEL (806) 353-6123 FAX (806) 333-4132 → Land Application Field <u>Legend:</u> ---- Denotes Liquid Treatment/Storage Pond Process Flow Diagram Figure T.A.1 Page 2 Sump (Lift Station) Volleman Dairy Processing Land, LP Comanche County Gustine, TX Processing Plant







T.B: FLOODPLAIN INFORMATION

T.B.1 FEMA Floodplain

FEMA has not conducted a study to assess the flood hazard in Comanche County, Texas. Based on existing facilities, proposed expansion areas, elevation data, and historical information, it has been determined that the facility is not situated in a floodplain.

T.C: STORAGE POND CERTIFICATIONS

2



Corporate Office: 3404 Airway Blvd. Amarillo TX 79118

Central Texas: 9855 FM 847 Dublin TX 76446 New Mexico; 203 East Main Street Artesia NM 88210

CERTIFICATION

Wildcat Dairy Processing Plant Gustine, Comanche County, Texas

Capacity Certification – Wastewater Pond #1

An as-built survey was conducted on 05/05/2020 by Enviro-Ag Engineering, Inc. to determine the total capacity of Wastewater Pond #1. The capacity with two feet of dry freeboard was calculated to be:

Structure

Capacity

Wastewater Pond #1

17.65 acre-feet

Respectfully submitted,

Erick Emerine, P.E. - License No. 103494

Enviro-Ag Engineering, Inc. - Engineering Firm No. 2507

Attachments:

As-Built Capacity Drawing Plan & Profile

Pond Marker Schematic

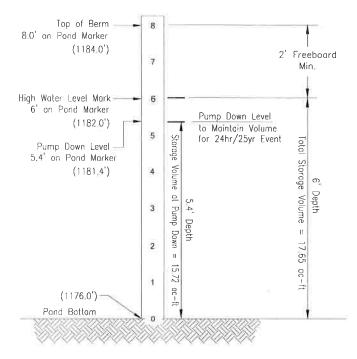
Note: Wildcat Dairy, Gustine, Comanche County, TX Date: 06/09/2020 Dimensions rounded to the nearest tenth of a foot Wastewater Pond #1 Volume Data Date Surveyed: 05/05/2020 Surveyed By: <u>CM</u> Drawn By: _EE_ Inside Top of Berm 1184.0" Bottom Elevation 1176_0' H.W.L. Elevation w/ 2 Freeboard 1182.0' Capacity at H.W.L. 17.65 Ac-Ft 120 Surface Area at I.T.B. 3,56 Acres Scale: 1" = 120'(One Foot Contour Interval) 548.2 35.9 476 3' - 36.1 1180 Inside Top of Berm Pond Marker High Water Level 287 Wastewater Pond #1 Measured Copacity at H.W.L. = 17.65 ac-ft 1180 34.5 Pond Bottom El: 1176 0 High Water Inside Top Inside Top of Berm Level of Berm El. 1182.0 El.: 1184:0 El. 1184.0 15.4 33.7' --479.7' = 36.1 Cross-Section A-A' Enviro-Ag Engineering, Inc. Wildcat Dairy Wastewater Pond #1 ENGINEERING CONSULTANTS Gustine As-Built Capacity Drawing 3404 Airway Boulevard AMARILLO, TEXAS 79118

Plan & Profile

ENGINEERING, INC.

TEL (806) 353-6123 FAX (806) 353-4132

Comanche County, TX



Cumulative Volume	Gallons by Foot
17.65 Ac-Ft	1,041,104 Gal
14,46 Ac-Ft	991,220 Gal
11,41 Ac-Ft	942,345 Gal
8,52 Ac-Ft	894,683 Gal
5 78 Ac-Ft	848,434 Gal
3.17 Ac-Ft	1,033,833 Gal

Note: Elevations shown with parentheses () are surveyed elevations according to reference datum established in construction drawings for pond.

Wildcat Dairy Gustine Comanche County, TX Wastewater Pond #1
As-Built Capacity Drawing
Pond Marker Schematic



Enviro-Ag Engineering, Inc.

ENGINEERING CONSULTANTS
3404 Airway Boulevard
AMARILLO, TEXAS 79118
TEL (806) 353-6123 FAX (806) 353-4132



Corporate Office: 3404 Alrway Blvd. Amarillo TX 79118

Central Texas: 9855 FM 847 Dublin TX 76446 New Mexico; 203 East Main Street Artesia NM 88210

SOIL LINER CERTIFICATION

Wildcat Dairy Processing Plant Gustine, Comanche County, Texas

Soil Liner Certification – Wastewater Pond #1

Six 3-inch Shelby tube core samples were collected from Pond #1 to document that the liner meets the requirements of the TCEQ for soil liner. The liner thickness was documented to be at least 36 inches.

The hydraulic conductivity of the clay soil liner is documented as follows:

Pond #1 - 1 (Lab #5346)	4.8 x 10 ⁻⁸ cm/sec
Pond #1 - 2 (Lab #5347)	6.6 x 10 ⁻⁸ cm/sec
 Pond #1 - 3 (Lab #5348) 	3.6 x 10 ⁻⁸ cm/sec
Pond #1 - 4 (Lab #5349)	7.7 x 10 ⁻⁸ cm/sec
Pond #1 - 5 (Lab #5350)	6.0 x 10 ⁻⁸ cm/sec
Pond #1 - 6 (Lab #5351)	3.6 x 10 ⁻⁸ cm/sec

Based on the above documentation, the liner in Wastewater Pond #1 is determined to be in accordance with TCEQ requirements for soil liners. The test locations were backfilled with bentonite chips. The test results meet the requirements of the TCEQ for hydraulic conductivity considered protective of ground and surface water sources.

Respectfully submitted.

Attachments:

Erick Emerine, P.E. – License No. 103494 Enviro-Ag Engineering, Inc. – Firm No. 2507

EAE Permeability Lab Reports

GSS Moisture Density Testing Reports

PHONE: 806-353-6123

www.enviroag.com

CALCULATION OF SPECIFIC DISCHARGE

LOCATION:

SITE

Wildcat Dairy Processing Plant

ENGINEER: E.Emerine DATE: June 2020

> Gustine, Comanche County, TX Wastewater Pond #1 STRUCTURE:

This worksheet calculates the specific discharge through a soil liner based on the measured thickness of the installed clay liner and the results of the permeability testing. The maximum allowable specific discharge of the installed liner is 1.1 x E-06 cm/sec or 0.0374 in/day.

				Hydraulic Cond	Hydraulic Conductivity Results of Core Samples	of Core Samples	
Laboratory Sample I.D.	5346	5347	5348	5349	5350	5351	
1. Water Depth, feet	9	9	9	9	9	9	
2. Liner Thickness, inches	36.0	36.0	36.0	36.0	36.0	36.0	
3. Hydraulic Conductivity, cm/sec	4.80E-08	6.60E-08	3.60E-08	7.70E-08	80-300.9	3.60E-08	
4. Calculated specific discharge, √							
Seepage Rate, inches/day	0.0049	0.0067	0.0037	0.0079	0.0061	0.0037	
Maximum Seepage Rate, inches/day	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	

NOTES:

- (1) Water depth of the pond in feet.
- (2) Soil liner thickness in inches.
- (3) Hydaulic conductivity of the core sample(s) as determined by flexible wall permeameter in cm/sec (Ref. ASTM D 5084).

The following equation is used:

v' = k (H + d) / d

v' = Specific Discharge of area representative of core sample, inches/day where:

d = Measure Liner Thickness at core sample location, feet

k = Hydaulic Conductivity of liner based on core sample testing, inches/day

 $H=Maximum\ Water\ Depth,\ feet$ (4) Maximum Allowable Seepage Rate of 1.1 E-06 cm/sec (0.0374 in/day).

Enviro-Ag Engineering, Inc. Erick Emerine, PE TX Firm No. 2507



PERM LAB REPORT LOG I.D.	3745 5345 5350	23.51	Enviro-Ag Engineering, Inc. EngineEring Consultants 3404 Airway Boulevard AMARILLO, TEXAS 79118 TEL (806) 353-6123 FAX (806) 353-4132
STRUCTURE	1-134m 1-2 NWoll 1-3 E-Woll 1-4 E34m 1-5 S-Woll	1-6 W-W d-1	ENVIRO—4G En
TRIAXIAL PERMEABILITY CHAIN of CUSTODY	WASTEWATER POND # 1		Facility Name: Johnson Wild Cat Dair Pour # / Project Engineer: E. Emerical Multinal Sampled by: Corey Multinal Date Sampled: a5 - 08 - 2 - 2 - 2 Date to Lab: b5 - 11 - 2020 Received: John Multinal

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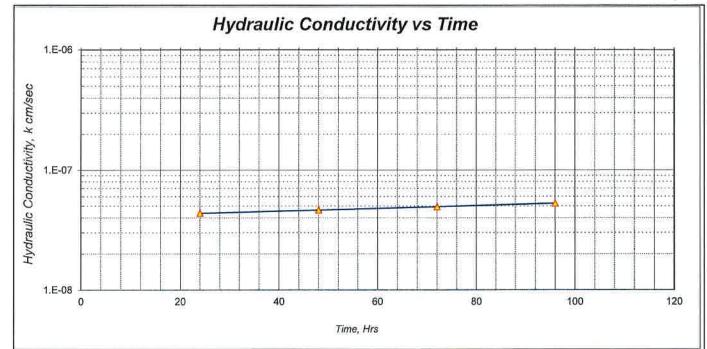
REPORT ASIM D-5084, Method C

Lab Sample Number. 20/18/05 Volleman Dairy ample Location Report Date:

Sample ID. 1-1 Bottom

June 2, 2020

5346



SPECIMEN DATA

SAMPLE ID:	1	
DESCRIPTION:	1-1 Bottom	
	<u>INITIAL</u>	<u>FINAL</u>
HEIGHT, in.	2.4	2.4
DIAMETER, in.	2.9	2.9
WATER CONTENT, %	12.7	22.4
DRY DENSITY, pcf	106	104
SATURATION, %	58	97
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Light Brown	
SAMPLE CONSISTENCY	Clay	

COMMENTS:

Tap water used as permeant.

TEST DATA

EFFECTIVE GRADIENT		5 psi
GRADIENT		•
	RANGE:	0 0
MUCUED		3 - 3
IN / OUT RA	ATIO:	1.00
		HYDRAULIC
TRIAL	TIME	CONDUCTIVITY
nos.	<u>hrs.</u>	<u>cm / sec</u>
1	24.0	4.4E-08
2	48.0	4.6E-08
3	72.0	4.9E-08
4	96.0	5.3E-08

AVERAGE LAST 4:

These results apply only to the above listed samples. The data and information are proprietary and can not be released without authorization of Enviro-Ag Engineering Inc. By accepting the data and results represented on this page, client agrees to limit the liability of Enviro-Ag Engineering, inc. from Client and all other parties claims arising out of the use of this data to the cost for the respective test(s) represented here, and Client agrees to Indemnify and hold harmless Enviro-Ag from and against all liability in excess of the aforementioned limit. Reviewed By:

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Print Date: 06/02/20

Micah Mullin

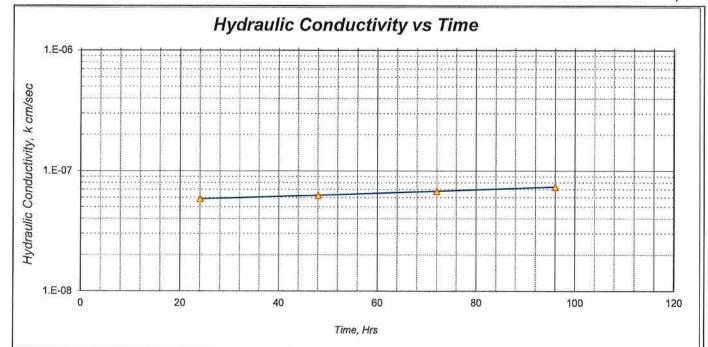
4.8E-08

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REPORT ASTM D-5084, Method C

Lab Sample Number, 20/18/05 Volleman Dairy 5347 Sample ID: Report Date: 1-2 N Wall June 2, 2020



SPECIMEN DATA

	SAMPLE ID:	2	
	DESCRIPTION:	1-2 N Wali	
		<u>INITIAL</u>	FINAL
	HEIGHT, in.	2.6	2.6
	DIAMETER, in.	2.8	2.9
	WATER CONTENT, %	13.9	21.1
	DRY DENSITY, pcf	109	107
	SATURATION, %	69	98
	(Specific Gravity assumed as 2.7)		
	SAMPLE COLOR	Light Brown	
	SAMPLE CONSISTENCY	Clay	
- 1			

COMMENTS:

Tap water used as permeant.

TEST DATA

ASTM D-5084, Method C		Method C
EFFECTIVE STRESS:		5 psi
GRADIENT RANGE:		2 - 2
IN / OUT RATIO:		1.00
		HYDRAULIC
TRIAL	TIME	CONDUCTIVITY
nos.	<u>hrs.</u>	<u>cm / sec</u>
1	24.0	5.8E-08
2	48.0	6.3E-08
3	72.0	6.8E-08
4	96.0	7.4E-08

AVERAGE LAST 4:

6.6E-08

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06/02/20

Print Date.

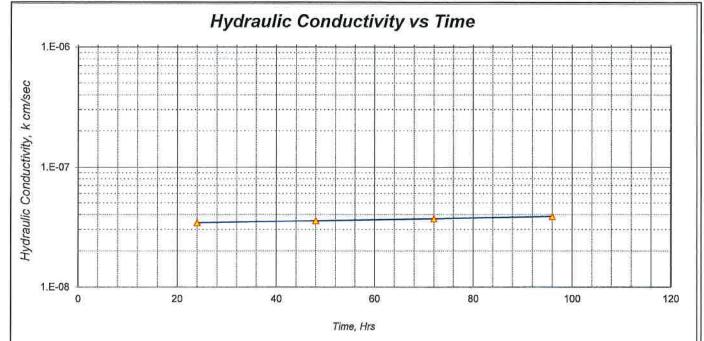
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REPORT ASIM D-5084, Method C

Lab Sample Number. 20/18/05 5348 Volleman Dairy Report Date: 1-3 E Wall June 2, 2020



SPECIMEN DATA

SAMPLE ID:	3	
DESCRIPTION:	1-3 E Wall	
	<u>INITIAL</u>	<u>FINAL</u>
HEIGHT, in.	2.9	2.9
DIAMETER, in.	2.9	2.9
WATER CONTENT, %	12.9	21.0
DRY DENSITY, pcf	109	107
SATURATION, %	63	99
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Light Brown	
SAMPLE CONSISTENCY	Clay	

COMMENTS:

Tap water used as permeant.

TEST DATA

	ASTM D-5084,	Method C	
EFFECTIVE STRESS:		5 psi	
GRADI	ENT RANGE:	2 - 2	
IN / OUT RATIO:		1.00	
		HYDRAULIC	
TRIAL	TIME	CONDUCTIVITY	
nos.	<u>hrs.</u>	cm / sec	
1	24.0	3.4E-08	
2	48.0	3.5E-08	
3	72.0	3.7E-08	
4	96.0	3.9E-08	

AVERAGE LAST 4:

3.6E-08

These results apply only to the above listed samples. The data and information are proprietary and can not be released without authorization of Enviro-Ag Engineering Inc. By accepting the data and results represented on this page, client agrees to limit the liability of Enviro-Ag Engineering, Inc. from Client and all other parties claims arising out of the use of this data to the cost for the respective test(s) represented here, and Client agrees to Indemnify and hold harmless Enviro-Ag from and against all liability in excess of the aforementloned limit.

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Print Date: 06/02/20

Reviewed By: Micah Mullin

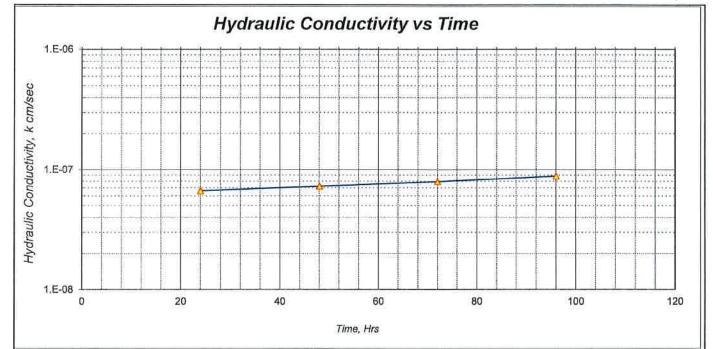
5348

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REPORT ASIM D-5084, Method C

Client / Project Name: Lab Sample Number. 5349 Volleman Dairy 20/18/05 ample Location Sample ID: Report Date: 1-4 E Bottom June 2, 2020



SPECIMEN DATA

SAMPLE ID:	4	
DESCRIPTION:	1-4 E Bottom	
	INITIAL	<u>FINAL</u>
HEIGHT, in.	2.5	2.5
DIAMETER, in.	2.8	2.9
WATER CONTENT, %	12.1	22.2
DRY DENSITY, pcf	106	104
SATURATION, %	56	97
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Light Brown	
SAMPLE CONSISTENCY	Clay	

COMMENTS:

Tap water used as permeant.

TEST DATA

ASTM D-5084, Method (Method C
EFFECTIVE STRESS:		5 psi
GRADIE	ENT RANGE:	2 - 3
IN/OU	T RATIO:	1.00
		HYDRAULIC
TRIAL	TIME	CONDUCTIVITY
nos.	<u>hrs.</u>	cm / sec
1	24.0	6.6E-08
2	48.0	7.2E-08
3	72.0	7.9E-08
4	96.0	8.8E-08

7.7E-08 AVERAGE LAST 4:

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DCN: EAE-QC-GRAPH (rev. 11/10/04)

06/02/20

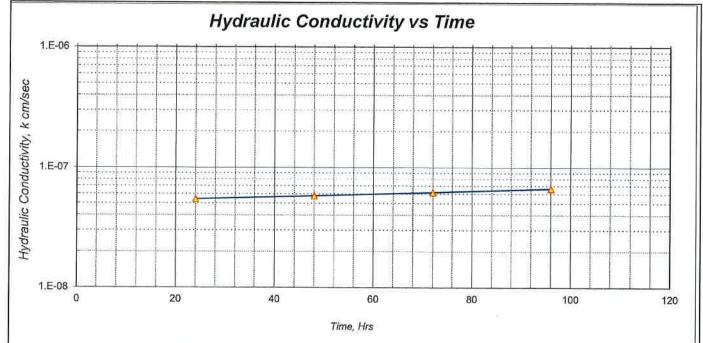
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REPORT ASTM D-5084, Method C

Client / Project Name:
Volleman Dairy Lab Sample Number. 20/18/05 5350 Sample ID: ample Location Report Date 1-5 S Wall June 2, 2020



SPECIMEN DATA

ļ	SAMPLE ID:	5	
ĺ	DESCRIPTION:	1-5 S Wall	
		<u>INITIAL</u>	<u>FINAL</u>
	HEIGHT, in.	2.7	2.8
	DIAMETER, in.	2.8	2.8
Ì	WATER CONTENT, %	12.3	19.0
1	DRY DENSITY, pcf	115	113
	SATURATION, %	72	103
	(Specific Gravity assumed as 2.7)		
	SAMPLE COLOR	Light Brown	
	SAMPLE CONSISTENCY	Clay	
- 1			

COMMENTS:

Tap water used as permeant.

TEST DATA

ASTM D-5084, Method C		
EFFEC.	TIVE STRESS:	5 psi
GRADIE	ENT RANGE:	2 - 3
IN/OU	T RATIO:	1.00
		HYDRAULIC
TRIAL	TIME	CONDUCTIVITY
nos.	<u>hrs.</u>	<u>cm / sec</u>
1	24.0	5.4E-08
2	48.0	5.8E-08
3	72.0	6.2E-08
4	96.0	6.6E-08

AVERAGE LAST 4:

6.0E-08

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Print Date:

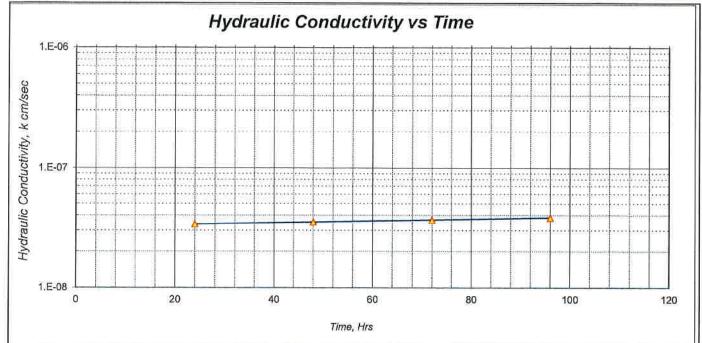
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Micah Mullin

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REPORT ASTM D-5084, Method C

Client / Project Name: Lab Sample Number: Volleman Dairy 20/18/05 5351 Sample ID: Report Date: 1-6 W Wall June 2, 2020



SPECIMEN DATA

	SAMPLE ID:	6	
	DESCRIPTION:	1-6 W Wall	
ij		<u>INITIAL</u>	<u>FINAL</u>
	HEIGHT, in.	2.8	2.8
	DIAMETER, in.	2.9	2.9
	WATER CONTENT, %	10.8	19.7
	DRY DENSITY, pcf	114	111
	SATURATION, %	60	103
	(Specific Gravity assumed as 2.7)		
	SAMPLE COLOR	Light Brown	
١			
	SAMPLE CONSISTENCY	Clay	
1			

COMMENTS:

Tap water used as permeant.

TEST DATA

ASTM D-5084, Method C		Method C
EFFECTIVE STRESS:		5 psi
GRADIE	ENT RANGE:	2 - 3
IN/OU	T RATIO:	1.00
		HYDRAULIC
TRIAL	TIME	CONDUCTIVITY
nos.	<u>hrs.</u>	<u>cm / sec</u>
1	24.0	3.4E-08
2	48.0	3.5E-08
3	72.0	3.7E-08
4	96.0	3.8E-08

AVERAGE LAST 4:

3.6E-08

These results apply only to the above listed samples. The data and information are proprietary and can not be released without authorization of Enviro-Ag Engineering Inc. By accepting the data and results represented on this page, client agrees to limit the liability of Enviro-Ag Engineering, Inc. from Client and all other parties claims arising out of the use of this data to the cost for the respective test(s) represented here, and Client agrees to Indemnify and hold harmless Enviro-Ag from and against all tiability in excess of the aforementioned limit.

Z : Soils Lab\Perms \1920 \ 20/18/05 \ 5351

Print Date:

06/02/20

Reviewed By. Micah Mullin



REPORT OF MOISTURE-DENSITY RELATIONS

CLIENT: Frank Vollerman	PROJECT NO.:
ADDRESS:	REPORT NO.: 200237
	DATE OF SERVICE: 4-24-20
	AUTHORIZATION:
	REPORT DATE: 3-16-20
DPO IECT: Milk Bottling Plant	

SERVICES: Obtain sample of material used for construction, prepare samples and perform moisture-density relations test to establish the maximum density and optimum moisture of the material.

PROJECT DATA

CONTRACTOR: Big Iron	TEST DATE: 4-24-20
DATE SAMPLED: 4-21-20	MATERIAL: Dk Br Clay
SAMPLED BY: J. & B, Slone	CLASSIFICATION:
TEST FOR: ASTM D 698	MATERIAL PREP. METHOD: A
LOCATION: On Site	RAMMER TYPE: Mech
A-9	METHOD OF TEST: ASTM D 698

REPORT OF TESTS

MAXIMUM DENSITY, PCF: 110.4

OPTIMUM MOISTURE (%): 17.7

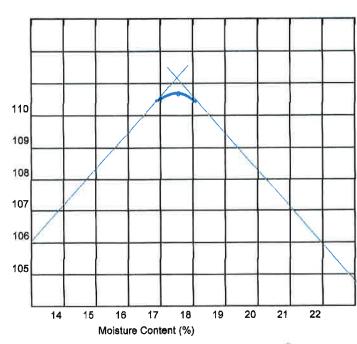
LIQUID LIMIT: 48 Dry
PLASTIC LIMIT: 25 Dens.
PLASTICITY INDEX: 23 (pcf)

E = Estimated Value

(-) 200 Grading: 74

TECHNICIAN: J&B Sione

REPORT DISTRIBUTION:





REPORT OF MOISTURE-DENSITY RELATIONS

CLIENT: Frank Vollerman	PROJECT NO.:
ADDRESS:	REPORT NO.: 200238
	DATE OF SERVICE: 4-24-20
-	AUTHORIZATION:
	REPORT DATE: 3-16-20
PROJECT: Milk Bottling Plant	

SERVICES: Obtain sample of material used for construction, prepare samples and perform moisture-density relations test to establish the maximum density and optimum moisture of the material.

PROJECT DATA

CONTRACTOR: Big Iron	TEST DATE: 4-24-20
DATE SAMPLED: 4-21-20	MATERIAL: Lt Tan & Red Clay
SAMPLED BY: J. & B, Slone	CLASSIFICATION:
TEST FOR: ASTM D 698	MATERIAL PREP. METHOD: A
LOCATION: On Site	RAMMER TYPE: Mech
	METHOD OF TEST: ASTM D 698

REPORT OF TESTS

MAXIMUM DENSITY, PCF: 104.0

OPTIMUM MOISTURE (%): 17.8

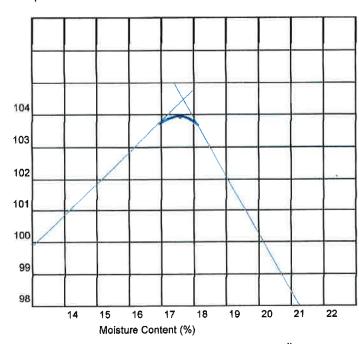
LIQUID LIMIT: 43 Dry
PLASTIC LIMIT: 23 Dens.
PLASTICITY INDEX: 20 (pcf)

E = Estimated Value

(-) 200 Grading:

TECHNICIAN: J&B Slone

REPORT DISTRIBUTION:





CLIENT: Frank Volleman			CLIEN.	T NO:		
ADDRESS:				RT NO: 2000	45	
Project: Milk Bottling Plant				3-31-2020		
AUTH: Frank	_		PAGE:	1 of 1		
JOBSITE INFORMATION	TEST		METH	OD	RE	QUIREMENTS
Contr: Big Iron	DENSITY		ASTM	D 2922	Vi. turn	95
JOBSITE: Jeff	MOISTURE		ASTM	D 3017		-1 to +3
TIME:	GAUGE NO.		3430		-	
REMARKS:						
MOI	ISTURE / DENSI	TY REI	LATION			-
M/D TEST	MATERIAL	A.1		OPTIMUN		MAXIMUM
NO. OF	DESCRIPTIO	N		MOISTUR		DENSITY
1 All	Lt Red Clay		9 8	15.8		116.6 105.8
2	Tan & Red Cla Dk Red Clay	у		20.3		103.4
	DK Red Clay	_	•	22.1		103.4
7	I-PLACE DENSI					
TEST TEST	M/D	MOIS		DEN		PERCENT
NO. LOCATION	_NO	CON	TENT	pc		COMPACTION
126.4 N.B W.E I	4	440	lbs	440.0	wet	404.0
Lift 1 N Berm W End Lagoon		14.9		118.0	dry	101.2
Lift 2 N Darm 450LE of W End Logger	a	17.0	lbs %	1153	<u>wet</u> dry	98.9
Lift 2 N Berm 150' E of W End Lagoon		17.0	lbs	1155	wet	30,3
Lift 3 N Berm E End Lagoon	1_	16.3		115.2	dry	98.8
Liit 3 14 Deilii L Liid Lagoon		10.0	lbs	110.2	wet	
Lift 4 N Berm 100' W of E End Lagoon	1	17.0		116.2	dry	99.7
Cit 4 14 Doint 100 17 Of E cita cagoon			lbs		wet	
Lift 5 E Berm N End Lagoon	1	17.7	%	114.2	dry	97.9
Ent o E Donn't End Edgoon			lbs		wet	
Lift 6 E Berm 150' S of N End Lagoon	1	15.3		114.5	dry	98.0
		-	lbs	· ·	wet	
Lift 7 E Berm 250' S of N End Lagoon	1	15.1	%	115.3	dry	98.9
	(lbs		wet	
Lift E Berm S End Lagoon	1	14.9		114.0	dry	97.8
			lbs		wet	
	-		%		dry	
			lbs	-	wet	
	-		%	-	dry	
TECHNICIAN: J. Slone		OFF	DIV	TEST	UNITS	
TIME: START Stop	_		8	Densities	30	\$240.00
CLIENT REP:		Time	4	Tedhnician	40	\$160.00
		Trip	1		100	\$100.00
CONTRACTOR NOTIFIED OF RESULTS (Y/N	l)	Total				\$500.00





CLIENT: Fr	rank Volleman			CLIENT I	NO:		
ADDRESS:					NO: 20023	2	
Project: Milk Bottling Plant				DATE: 4			
AUTH: Fra	nk			PAGE: 1	of 2		
JOBSITE IN	NFORMATION	TEST		METHO)	R	EQUIREMENTS
Contr: Big I	ron	DENSITY		ASTM D			95
JOBSITE: J	eff	MOISTURE		ASTM D	3017		-1 to +3
TIME:		GAUGE NO.		3430		15	
REMARKS:							
		OISTURE / DENSIT	Y REI	ATIONS			,
M/D	TEST	MATERIAL			OPTIMUM		MAXIMUM
NO.	OF	DESCRIPTION	<u> </u>		MOISTURI	<u> </u>	DENSITY
11	All	Lt Red Clay			15.8		116,6
2	All	Tan & Red Clay	/		20.3		105.8
3	All	Dk Red Clay			22.1		103.4
		IN-PLACE DENSI	Y TES	STS			
TEST	TEST	M/D	MOIS	TURE	DENS	SITY	PERCENT
NO.	LOCATION	NO.	CON.	TENT	pc	f	COMPACTION
		8		lbs		wet	
9 Lago	oon N Dam W End	1	18.9	%	118.1	dry	101.2
	·			lbs		wet	
10 Lago	oon N Dam E End	3	19.2	%	101.9	dry	98.5
				lbs		wet	
11Lago	oo <u>n E Dar</u> n N End	3	19.3	%	99.9	dry	96.6
				lbs	4000	wet	00.7
12 Lago	oon E Dam S End	3	21.0	%	100.0	dry	96.7
40 9 800			20.4	lbs	101.4	wet	00.0
13 Lago	oon W Dam Center	3	20.4	% lbs	101.4	dry wet	98.0
		1		108		dry	
-				lbs	-	wet	
				%	-	dry	
		<u> </u>		lbs	-	wet	
				%		dry	
				lbs		wet	
				%		dry	
****				lbs		wet	
				<u>%</u>		dry	·
TECHNICIA	AN: J. Slone		OFF	DIV	TEST	UNITS	3
TIME: STA		i i					
CLIENT RE			Time				
		· · · · · ·	Trip				
CONTRAC	TOR NOTIFIED OF RESULTS (Y	/N)	Total				

TECHNICIAN:

CIS



CLIENT: Fra	_		CLIENT	T NO: RT NO: 2002:	33		
Project: Milk Bottling Plant					4-17-2020		
AUTH: Fran		_		PAGE:	1 of 2		
JOBSITE IN	FORMATION	TEST		METHO	סס	RI	EQUIREMENTS
Contr: Big Ir	on	DENSITY		ASTM I	D 2922		95
JOBSITE: Je	eff	MOISTUR	RE	ASTM	D 3017		-1 to +3
TIME:		GAUGE N	IO.	3430		V 	
REMARKS:							
	MOIS	STURE / DE	NSITY REI	ATION	S		
M/D NO.	TEST OF	MATERI DESCRIP			OPTIMUM MOISTUR		MAXIMUM DENSITY
1	All	Lt Red C			15.8		116.6
2	All	Tan & Red		S 35	20.3		105.8
3	All	Dk Red C		8 IN	22.1		103.4
	IN	PLACE DE	NSITY TES	STS			
TEST	TEST	M/D	MOIS		DEN:	SITY	PERCENT
NO.	LOCATION	NO.		CONTENT pcf			COMPACTION
		- 		lbs		wet	
14Lago	on N Dam E End		19.7	%	104.9	dry	99.1
		_	10.4	lbs	105.0	wet	00.4
15 Lago	on W Dam N End	2	19.4	%	105.2	dry	99.4
16 000	on C Dom N End	2	20.2	lbs %	105.7	wet dry	99.4
Lago	on S Dam N End			lbs	_100.7	wet	
			-	- 103	:	dry	
			-	lbs	;	wet	-
				%	-	dry	
	*			lbs	2	wet	·
				%		dry	
			lbs			wet	
				₩	%	dry	
				lbs	9	wet	
				%	8	dry	
				lbs	8	wet	
		-		%		dry	
			•	lbs %		dry	
		(
TECHNICIA			OFF	DIV	TEST	UNITS	
TIME: STAR			Time				
CLIENT REF		-	Time Trip				
CONTRACT	OR NOTICIED OF BERLII TO (V/N)		Total				
CONTRACT	OR NOTIFIED OF RESULTS (Y/N)		į i Otai				

TECHNICIAN:

CS



CLIENT: Frank Volleman			CLIENT	NO:				
ADDRESS:			REPORT NO: 200234					
Project: Milk Bottling Plant				1-20-2020				
AUTH: Frank			PAGE:	1 of 2				
JOBSITE INFORMATION	TEST		METHO	D	RE	EQUIREMENTS		
Contr: Big Iron	DENSITY		ASTM D	2922		95		
JOBSITE: Jeff	MOISTURE		ASTM C	3017	\	-1 to +3		
TIME:	GAUGE NO).	3430		· ·			
REMARKS:								
M	OISTURE / DEN	SITY REI	ATIONS	8				
M/D TEST	MATERIA			OPTIMUN		MAXIMUM		
NO. OF	DESCRIPT			MOISTUR	<u>E </u>	DENSITY		
AII	Lt Red Cla			15.8		116.6		
2 All	Tan & Red C	lay		20.3		105.8		
3 All	Dk Red Cla	зу	2=	22.1		103.4		
	IN-PLACE DEN	SITY TES	STS					
TEST TEST	M/D	MOIS	TURE	DEN	SITY	PERCENT		
NO. LOCATION	NO.	CON	TENT	po	f	COMPACTION		
	-		lbs		wet			
17 Lagoon E Berm N End	11	15.4	%	110.6	dry	95.0		
30 12-11-11			lbs		wet			
18 Lagoon E Berm 100's of N End	1	14.8		112.2	dry	96.2		
			lbs		wet			
19 Lagoon N Berm 50' W of E End	_1_	14.9		111.3	dry	96.9		
			lbs		wet	_		
20 Lagoon N Berm 150' W of E End		15.1	%	110.6	dry	95.0		
		_	lbs		wet			
21 Lagoon N Berm E End	1	14.9	%	111.2	dry	95.5		
			lbs	19-	wet			
	(%		dry			
		_	lbs		wet			
-			%	-	dry			
		_	lbs	-	wet			
		-	<u>%</u>		dry			
			lbs		wet			
	4	-	%		dry			
			lbs	-	wet			
	8	-	%	S	dry			
TECHNICIAN: J. Slone		OFF	DIV	TEST	UNITS	10-11-11-11-11-11-11-11-11-11-11-11-11-1		
TIME: START Stop			10	Densities	30.00	\$300.00		
CLIENT REP:		Time		6	40.00	\$240.00		
		Trip		1	100.00	\$100.00		
CONTRACTOR NOTIFIED OF RESULTS (Y	/N)	Total				\$640.00		





CLIENT: Fra	nk Volleman			CLIENT			
ADDRESS:			REPOR		62		
Project: Milk Bottling Plant			ii (4		4-23-2020		
AUTH: Frank		3	PAGE:	1 of 2			
JOBSITE INF	FORMATION	TEST		METHO	DD	R	EQUIREMENTS
Contr: Big Iro	on	DENSITY		ASTM [95
JOBSITE: Je	ff	MOISTUR	RE]	ASTM [3017		-1 to +3
TIME:		GAUGE N	IO.	3430		_	
REMARKS:			8				
		MOISTURE / DE		ATION			
M/D NO.	TEST OF	MATERI DESCRIP			OPTIMUI MOISTUR		MAXIMUM DENSITY
1	All	Dk Br Cl	ay		17.7		110.4
2	All	Tan & Red	Clay	-	20.3		105.8
3	All	Dk Red C	lay	-	22.1		103.4
		IN-PLACE DE	NSITY TES	TS			
TEST	TEST	M/D	MOIS	TURE	DEN	SITY	PERCENT
NO.	LOCATION	NO.	CON	TENT	pe	of	COMPACTION
				lbs		wet	
#22 N	Berm E End		19.4	%	102.1	dry	96.5
				lbs	-	wet	
#23 E	Berm N End	2	20.1	%	102.6	dry	97.0
				Ibs		wet	
		*		%		dry	
			-	lbs %		wet dry	
		-	_	lbs		wet	
				%	,	dry	
				lbs		wet	
				%	•	dry	
•				lbs	-	wet	
				%		dry	
	***************************************	2		lbs		wet	
				₩		dry	
				lbs		wet	
		-		%		dry	
				lbs		wet	
		· · · · · · · · · · · · · · · · · · ·	9	<u></u>		dry	
TECHNICIAN			OFF	DIV	TEST	UNITS	
TIME: START				2	Densities	30.00	\$60.00
CLIENT REP			Time		2	40.00	\$80.00
			Trip		1	100.00	\$100.00
CONTRACTO	OR NOTIFIED OF RESULTS ((Y/N)	Total				\$240.00





CLIENT: Fra	ank Volleman			CLIENT	NO:		
ADDRESS:					RT NO: 2002	39	
Project: Milk Bottling Plant					4-24-2020		
AUTH: Frank	k			PAGE:	1 of 2		
JOBSITE INI	FORMATION	TEST		METHO	DD	RE	QUIREMENTS
Contr. Big Ire	on	DENSITY		ASTM	2922		95
JOBSITE: Je	eff	MOISTUR	Œ	ASTM	O 3017		-1 to +3
TIME:		GAUGE N	i O .	3430			
REMARKS:							
		MOISTURE / DEI		ATION			
M/D NO.	TEST OF	MATERI DESCRIP			OPTIMUM MOISTUR		MAXIMUM DENSITY
1	All	Dk Br Cla	ay		17.7		110.4
2	All	Tan & Red			20.3		105.8
3	All	Dk Red C	lay		22.1		103.4
		IN-PLACE DEI	NSITY TES	STS			
TEST	TEST	M/D	MOIS	TURE	DEN	SITY	PERCENT
NO.	LOCATION	NO.	CON	TENT	po	sf	COMPACTIO
				lbs		wet	
W Slope S End #24		1	17.4		109.9	dry	99.5
			4-0	lbs	400.4	wet	00.0
S Slop	pe W End #25		17.6		108.4	dry	98.2
			-	lbs %		wet dry	
	•			lbs		wet	-
			-	%	-	dry	
				lbs		wet	
				%		dry	
				lbs		wet	
				%	(dry	
-				lbs		wet	,,
				%		dry	
				lbs		wet	
		***************************************		%	19	dry	
				lbs		wet	
				%	-	dry	
				lbs	-	wet	
				%		dry	
TECHNICIAN	N: J. Slone		OFF	DIV	TEST	UNITS	
TIME: STAR	A CONTRACTOR OF THE CONTRACTOR			6	Densities	30.00	\$180.00
CLIENT REP			Time		4	40.00	\$160.00
			Trip		1	100.00	\$100.00
CONTRACT	OR NOTIFIED OF RESULTS (Y/N)	Total				\$440.00





CLIENT: F	rank Volleman			CLIEN	T NO:					
ADDRESS:		====!		REPORT NO: 200364						
Project: Mi	ilk Bottling Plant			DATE:	4-17 to 5-1-20	020				
AUTH: Fra	nk			PAGE:	1 of 2					
JOBSITE II	NFORMATION	TEST		METH	OD	RI	EQUIREMENTS			
Contr: Big	Iron	DENSITY		ASTM	D 2922		95			
JOBSITE:	Jeff	MOISTURE	= '	ASTM	D 3017		-1 to +3			
TIME:		GAUGE NO) .	3430		-				
REMARKS	: Page 1 of 2					•				
	M	OISTURE / DEN	IŞİTY REI	LATION	S					
M/D	TEST	MATERIA	\L		OPTIMU		MAXIMUM			
NO.	OF	DESCRIPT	ION		MOISTUR	RE	DENSITY			
1	All	Dk Br Cla	у		17.7		110.4			
2	All	Tan & Red C	Clay		20.3		105.8			
3	All	Dk Red Cla	ay		22.1		103.4			
		IN-PLACE DEN	SITY TES	STS						
TEST	TEST	M/D	MOIS	TURE	DEN	SITY	PERCENT			
NO.	LOCATION	NO.	CON	TENT	p	cf	COMPACTION			
	-			lbs		wet				
0-6" Bittom Liner E End		3	22.3		107.0		103.4			
		24010-2-72		lbs		wet				
6"-1	2" Bittom Liner E End	3	21.4	%	105.9	dry	102.4			
		:		lbs		wet				
12"-	18 <u>" Bittom</u> Liner E End	2	20.4		102.1	dry	98.7			
				lbs		wet				
18"-2	24" Bittom Liner E End	2	18.0		103.1	dry	98.7			
			-	lbs		wet				
24"-:	30" Bittom Liner E End	2	17.1	%	103.7	dry	100.3			
				lbs	-	wet				
30"-3	6" Bottom Liner E End	2	18.3		102.8		99.4			
				lbs	-	wet				
0-6"	W Bottom Liner (4-18)	3	21.2	%	106.3	dry	103.4			
				lbs		wet	-wene			
6"-12	2" W Bottom Liner (4-18)	3	22.6		106.4	dry	102.9			
4.0				lbs		wet				
12"-	18" W Bottom Liner	3	23.0	%	101.3		98.0			
		_		ibs		wet				
18"-2	24" W Bottom Liner	3	21.2	%	102.0	dry	99.0			
TECHNICIA	AN: J. Slone		OFF	DIV	TEST	UNITS				
TIME: STAI				6	Densities	30.00	\$180.00			
CLIENT RE	P:		Time		8	40.00	\$320.00			
			Trip		1	100.00	\$100.00			
CONTRAC	TOR NOTIFIED OF RESULTS (Y)	N)	Total				\$600.00			





CLIENT: Fra	nk Volleman			CLIENT	NO:		
ADDRESS: Project: Milk Bottling Plant		_	2		T NO: 20036	5	
				DATE: 5			
AUTH: Frank	(—-: —-:	18	PAGE:	1 of 2		
JOBSITE INF	FORMATION	TEST		METHO	D	RE	QUIREMENTS
Contr. Big Iro	on	DENSITY		ASTM D	2922		95
JOBSITE: Je		MOISTURE	25	ASTM D	3017	=	-1 to +3
TIME:		GAUGE NO.	=======================================	3430			
REMARKS:	Page 2 of 2 (Billed on Page 1)						
	MOI	STURE / DENS	TY REL	ATIONS			
M/D	TEST	MATERIAL			OPTIMUM		MAXIMUM
NO.	OF	DESCRIPTIO	N		MOISTURE		DENSITY
1	All	Dk Br Clay		_	17.7		110.4
2	All	Tan & Red Cla		_	20.3		105.8
3	All	Dk Red Clay		_	22.1		103.4
		I-PLACE DENSI	TY TES	STS			
TEST	TEST	M/D	MOIS	TURE	DENS	ITY	PERCENT
NO.	LOCATION	NO.	CON	TENT	pc:		COMPACTION
				adí		wet	
0-6""	Liner S Slope	3	20.2	%	105.3	dry	101.8
				lbs		wet	
6"-12"	Liner S Slope	3	22.8	₩	100.3	dry	97.0
				lbs	5	wet	
12"-18	B <u>" Liner S</u> Slope	3	22.5	%	100.4	dry	97.0
		_		lbs	100.1	wet	00.7
18"-24	4" Liner S Slope	3	23.1	%	102.1	dry	98.7
				lbs	400.0	wet	06.7
24"-30	"Liner S Slope	3	22.9	%	100.0	dry	96.7
		•	04.0	lbs	99.4	wet	96.1
30"-36	"Liner S Slope	3	21.9		99.4	dry	
				lbs %	-	wet	
		-			(-	dry wet	
0.45.04	Oll Dollars Lines W. End	2	20.0	lbs %	105.9	dry	102.4
24"-31	0" Bottom Liner W End		20.0	lbs	100.8	wet	102.4
201 20	6" Bottom Liner W End	2	17.7		103.1	dry	100.2
30 -30	D BOllotti Filiet AA Etia		17.7	lbs	100.1	wet	100.2
				%	-	dry	
			-	70		ury	
TECHNICIA	N: I Slone		OFF	DIV	TEST	UNITS	T 1
TIME: STAR			<u> </u>				
CLIENT REF			Time	1 1			
JEILINI IVER	i 		Trip				
CONTRACT	OR NOTIFIED OF RESULTS (Y/N))	Total				
5514110.001	5 5 . 11 1ED 51 1. ED 51 1	· ——					

TECHNICIAN:

CS



IN-PLACE DENSITY TEST SERVICE ORDER

CLIENT: Fran	nk Volleman			CLIEN	ΓNO:		
ADDRESS:					RT NO: 20023	36	
Project: Milk I	Bottling Plant				4-21-2020		
AUTH: Frank		-		PAGE:	1 of 2		
JOBSITE INF	ORMATION	TEST		METHO	OD	R	EQUIREMENTS
Contr: Big Iro	n	DENSITY		ASTM	D 2922		95
JOBSITE: Jef		MOISTURE		ASTM	D 3017		-1 to +3
TIME:		GAUGE NO.		3430			
REMARKS:							
	MOIS	TURE / DENS	ITY REI	ATION	S		
M/D	TEST	MATERIAL			OPTIMUN		MAXIMUM
NO.	OF	DESCRIPTION			MOISTUR	<u> </u>	DENSITY
1	All	Lt Red Clay			15.8		116.6
2	All	Tan & Red Cla			20.3		105.8
3	All	Dk Red Clay			22.1		103.4
	IN-	PLACE DENS	TY TES	STS			
TEST	TEST	M/D	MOIS	TURE	DENS	SITY	PERCENT
NO.	LOCATION	NO.	CON	TENT	pc	f	COMPACTION
				lbs		wet	
0-6" Li	iner N Slope	3	22.4		101.7	dry	98.3
4		•		lbs	100.4	wet	00.0
6"-12"	Liner N Slope	3	22.6	%	102.4	dry	99.0
409.409	" Liner N Slope	3	21.5	lbs %	103.0	dry	99.6
	I4 Slope		21.5	lbs	_100.0	wet	
18"-2 <i>4</i> "	" Liner N Slope	3	22.6		102.6	dry	99.2
10 -2-4	Eliter it Giope			ibs		wet	
24"-30'	" Liner N Slope	3	21.5	%	104.0	dry	100.6
2. 55	This is a second			lbs	•	wet	
30"-36"	Liner N Slope	3	23.0	%	101.6	dry	98.2
A				lbs	,	wet	
		·		₩		dry	
				lbs		wet	
				%		dry	
				lbs		wet	
				%		dry	
				lbs %	-	wet	
				-70	-	dry	
TECHNICIAN	: J. Slone		OFF	DIV	TEST	UNITS	
TIME: START	Stop			10	Densities	30.00	\$300.00
CLIENT REP			Time		6	40.00	\$140.00
			Trip		1	100.00	\$100.00
CONTRACTO	OR NOTIFIED OF RESULTS (Y/N)		Total				\$640.00

TECHNICIAN:





IN-PLACE DENSITY TEST SERVICE ORDER

CLIENT: Fran	nk Volleman			CLIEN'	T NO:		
ADDRESS:	#17=	. 1 2			RT NO: 2003	31	
Project: Milk	Bottling Plant	_	/.		4-27-2020		
AUTH: Frank		_	98 28	PAGE:	1 of 2		
JOBSITE INF	ORMATION	TEST		METH	OD	R	EQUIREMENTS
Contr: Big Iro	n	DENSITY		ASTM	D 2922		95
JOBSITE: Jef		MOISTURE			D 3017		-1 to +3
TIME:		GAUGE NO	O	3430		-	
REMARKS:						-	
	MOIS	TURE / DEN	ISITY REL	ATION	S		
M/D NO.	TEST OF	MATERIA DESCRIPT			OPTIMUM MOISTUR		MAXIMUM DENSITY
	All	Dk Br Cla	У		17.7		110.4
2	All	Tan & Red 0	Clay		20.3		105.8
3	All	Dk Red Cl		:	22.1		103.4
	IN-	PLACE DEN	ISITY TES	TS			
TEST	TEST	M/D	MOIS	TURE	DEN:	SITY	PERCENT
NO.	LOCATION	NO.	CONT	TENT	po	f	COMPACTION
				lbs		wet	
0-6" Li	ner E Slo[e	_1_	19.0	%	108.4	dry	98.2
				lbs	-	wet	
6"-12"	E Slope		17.6	₩	109.1	dry	98.8
				lbs		wet	
12"-18	" R Slope		18.1	%	109.3	dry	99.0
				lbs		wet	100 5
18"-24	" E Slope	1	16.9	%	111.0	dry	100.5
		4	40.0	lbs	400.0	wet	00.7
24"-30	"E Slope	1	16.0	%	106.8	dry	96.7
0011 0011	F.Oleren	4	40.4	lbs	100.0	wet	06.2
30"-36"	E Slope		18.1	%	106.2	dry	96.2
			-	lbs	-	wet	
				% lbs		dry	
			_	lbs %		dry	
				lbs	-	wet	
			-	%	-	dry	
				lbs	-	wet	
				%		dry	
TECHNICIAN	· .I Slone	:	OFF	DIV	TEST	UNITS	
TIME: START		-	511	4	Densities	30.00	\$120.00
CLIENT REP		-	Time		4	40.00	\$160.00
CHIPITI INC.		=	Trip		1	100.00	\$100.00
CONTRACTO	OR NOTIFIED OF RESULTS (Y/N)		Total				\$380.00

TECHNICIAN:





IN-PLACE DENSITY TEST SERVICE ORDER

CLIENT: Fran	nk Volleman			CLIEN.	T NO:		
ADDRESS:		_			RT NO: 2002	35	
Project: Milk					4-21-2020		
AUTH: Frank				PAGE:	1 of 2		
JOBSITE INF	ORMATION	TEST		METH	OD	RI	EQUIREMENTS
Contr. Big Iro	n	DENSITY		ASTM	D 2922		95
JOBSITE: Jef	f	MOISTUR	E	ASTM	D 3017		-1 to +3
TIME:		GAUGE N	O .	3430		-	
REMARKS:							
		TURE / DEN		ATION			
M/D NO.	TEST OF	MATERIA DESCRIPT			OPTIMUM MOISTUR		MAXIMUM DENSITY
1	All	Lt Red Cl			15.8		116.6
2	All	Tan & Red			20.3		105.8
3	All	Dk Red C	lay		22.1		103.4
	IN-	PLACE DEN	ISITY TES	STS			
TEST	TEST	M/D	MOIS	TURE	DEN	SITY	PERCENT
NO.	LOCATION	NO.	CON	TENT	po	if	COMPACTION
				lbs		wet	
1-6" Li	ner W Slope	3	23.1	%	102.1	dry	98.7
		_		lbs		wet	
6"-12""	Liner W Slope	3	22.6	%	100.1	dry	96.8
401.40	U. Bara 147 Ola		24.0	lbs	400.4	wet	400.0
12"-18	liner W Slope	3	21.8	%	103.4	dry	100.0
40" 24	"Liner W Slope	3	22.4	lbs %	102.5	dry	99.1
10 -24	Linei vv Siope		22.4	Ibs	102.5	wet	99.1
24"_30	Liner W Slope	3	21.4	%	101.2	dry	98.3
2-7 -00	Liller VV Glope	3	21.7	lbs	101.2	wet	30.0
30"-36"	Liner W Slope	3	21.5	%	100.1	dry	96.8
				Ibs	- 100/1-	wet	
			*	%	•	dry	
			,	lbs		wet	
				%		dry	
	*			lbs		wet	
				%		dry	
				lbs		wet	
				%		dry	
TECHNICIAN		_	OFF	DIV	TEST	UNITS	
TIME: START							
CLIENT REP:			Time		Billed on N		
00VITC : 070	OR NOTIFIED OF RESULTS (Y/N)		Trip		Slope		
CONTRACTO	JR NUTTETED OF RESULTS (Y/N)		Total				1

TECHNICIAN:

T.D: AGRONOMIC MANAGEMENT PLAN

AGRONOMIC MANAGEMENT PLAN

Prepared For:



Volleman Dairy Processing Land, LP 600 County Road 252 Gustine, Texas 76455

Prepared By:



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AGRONOMIC MANAGEMENT PLAN

Purpose

This document supports the Volleman Dairy Processing Land, LP land application of waste as prescribed by the Texas Land Application Permit (TLAP) through the Texas Commission on Environmental Quality (TCEQ). This Agronomic Management Plan (AMP) aims to illustrate the beneficial use of industrial effluent from the processing plant. All effluent applications are managed in a manner that ensures environmental stability and maximum crop production.

This plan will be updated annually to reflect current soil and waste analysis, climatic data, previous water demands, and proposed crop water usage for the upcoming year. Application rate calculations will be developed and maintained on-site for use by the operator to determine application timing and rates.

Background

Volleman Dairy Processing Land, LP is applying for a Major Amendment to its TLAP authorization through the TCEQ to irrigate treated effluent onto 46 acres of irrigated farmland beneficially.

General Objectives of AMP

- Present information pertaining to the effluent, soils, and crops.
- Present irrigation tract(s) layout Figure 1.1.
- Present information pertaining to crop rotations and yield goals to illustrate the appropriateness of the selected crops for use with this project.
- A description of wastewater usage for irrigation. This will include information on actual effluent application rates to meet the crop hydraulic/nutrient demands and maximize crop yield goals.
- An estimation of the annual loading of nutrients supplied by the effluent.
- An overview of wastewater/nutrient storage is needed in the soil profile, and a pre-plant scenario is needed to serve as a starter fertilizer.
- Monitoring soil profiles to ensure no saturated soils are present within 3 feet of the surface.

Overview

Treated effluent from the storage lagoon will be distributed to high-production farmland that is established in Coastal Bermudagrass. The crop yield goals will be provided by data from the NRCS or from historical data obtained from the farmer.

The landowner uses management practices to ensure maximized crop production. High residue crops are utilized, and deep tillage is used when necessary to maximize the soil's ability to store and retain water, allowing for maximum root penetration.

Site Features

The regional climate is classified as humid subtropical, with hot summers and mild winters. The growing season averages 220 frost-free days. The average annual rainfall is 25-35 inches and generally occurs during the warm-season months of May, June, July, and August.

Most precipitation occurs during the growing seasons for bermudagrass when evapotranspiration is highest. However, optimum yields can only be achieved through supplemental irrigation of the crops due to low rainfall and high evaporative rates. Most cropping systems require preseason irrigation, with growing season applications depending on stored water, to achieve maximum yield goals. These are standard operational production practices in this area. The permittee requests preseason irrigation, up to 30 days before crop planting, to achieve optimal production. This will enable the facility to manage application events, building a moisture and nutrient profile in the soil before planting. This management tool would reduce the need for groundwater for pre-watering and the costs associated with pre-plant starter fertilizers.

Soils

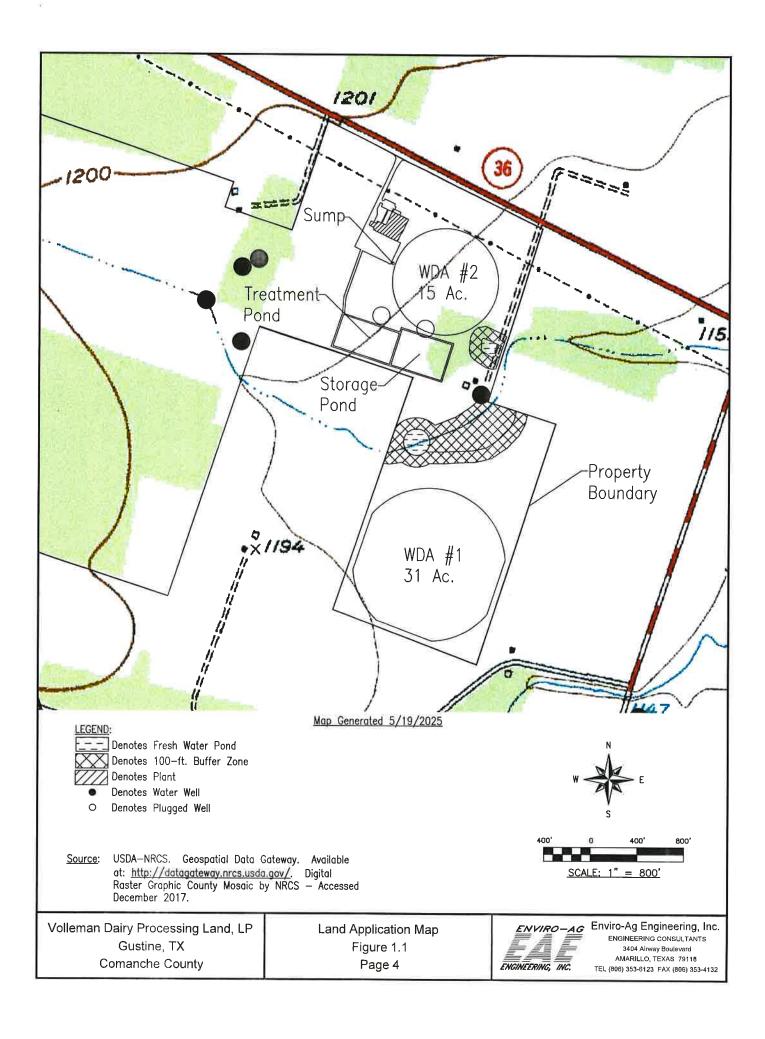
According to the information contained in the Comanche County Soil Survey, soils of the 46-acre irrigation tract consist of: Blanket, Chaney, Hassee, and Pedernales series. The physical and hydrological properties of these soils are illustrated in Table 1 below. More soil information can be found in the supporting documentation.

Table 1: Estimated Soil Properties

Soil Series & Map ID	Slope (%)	HSG	Depth (in)	USDA Soil Texture	Permeability / Infiltration Rate(in/hr.)	Available Water Capacity (in/in of soil)
BlalB – Blanket	1-3	С	0-6	Loam	0.6-2.0	0.17-0.23
			6-22		0.06-0.6	0.12-0.20
			22-48		0.20-2.0	0.12-0.20
ChC -	1-5	С	0-4	Loamy Sand	6.0-20	0.05-0.10
Chaney			4-14		6.0-20	0.05-0.10
			14-40		0.06-0.6	0.12-0.18
HaB - Hassee	1-3	D	0-12	Loam	0.6-2.0	0.11-0.17
			12-42		0.001-0.06	0.12-0.18
PdC -	1-5	С	0-12	Loamy Fine	2.0-6.0	0.08-0.12
Pedernales			12-36	Sand	0.20-0.6	0.13-0.15
			36-44		0.20-0.6	0.14-0.17
PeB -	1-3	С	0-7	Fine Sandy	0.6-2.0	0.13-0.17
Pedernales			7-21	Loam	0.20-0.6	0.13-0.15

Soil Series & Map ID	Slope (%)	HSG	Depth (in)	USDA Soil Texture	Permeability / Infiltration Rate(in/hr.)	Available Water Capacity (in/in of soil)
			21-40		0.20-0.6	0.14-0.17

Currently, agricultural practices are in place to maximize crop yields and enhance the soil's ability to retain and store water. Furthermore, deep tillage occurs periodically, and the soils of the A and B horizons have been thoroughly mixed, so the surface soil may not resemble those listed in Table 1. Generally, the soil in the area to be used for irrigation illustrates a loamy surface layer (A horizon) underlain by sandy clay loam or clay loam (B horizon). The interface between the A and B horizons is generally abrupt and smooth. In native conditions, this boundary may impede water movement under irrigation, therefore affecting the ability to leach potentially detrimental constituents, such as salts contained in the effluent. Due to these characteristics, the subsoil will be ripped or deep-plowed as needed. It is preferable to rip or deep plow during periods of low soil moisture and just before planting to increase the fracturing of the subsoils, thus increasing the ability of the soils to absorb water (fresh) into the deeper profiles for storage.



Effluent Characteristics

Wastewater Storage

The treated effluent $\bar{\text{will}}$ be pumped from the storage lagoon and routed to the land application fields.

Effluent Quality

For this plan, the Total Nitrogen content of the effluent to be land-applied is 15.96 lb./acin TKN. The Total Phosphorus is 7.57 lb./ac-in as P2O5, based on the effluent samples collected from the facility. Based on the geographical location of the facility and farm practices, the permittee estimates that 80% of the total nitrogen is available after volatilization and mineralization.

Effluent Quantity

The average annual amount of effluent available for irrigation is projected to be 36.5 million gallons (112 ac-ft/yr.).

Annual Cropping Plan

Crop Selection

Table 2 illustrates the amount of effluent to be applied based on nitrogen.

The following formula will be utilized to determine the annual application rates based on the effluent's most limiting nutrient content, nutrients in the soil, and crop requirements.

Total nutrient required by crop ((lb./ac)- Soil Test (lb./ac))/ ((lb. per Ac-in of Nut. in Effl x 0.80)) = Annual Application Rate (Ac-in)

Other Crop Inputs

Supplemental fertilizers may be necessary to achieve yield goals; however, determinations will be made annually on a field-by-field basis, using soil test results. Based on the effluent pH, EC, Ag and sodium content, soil amendments such as elemental sulfur, gypsum, or other inputs may be used to help manage soil pH and salinity.

Volleman Dairy Processing **Nutrient Budget**

Table 2
ENVIRO-AG ENGINEERING, INC.

				Crop N	N lioS9-0		Wastewater	Adjusted Plant	Ac-In/Ac of	
			Crop Salt	Requirement	Residual	required lb./Ac	Analysis N	Available N lb./		
Tield ID	Planned Crop Rotation	Crop Yield (1)	Tolerances (2)	lb./Ac (3)	1b./Ac (4)	(5)	lb./Ac-in (6)	Ac-in (7)	apply (8)	Total Gallons/Field (9)
WDA #1 (31 acres) Summer	Coastal Hay	4 Cut	8,0-12,0	400	9	394	15.90	12.72	31.0	76 073 817
WDA #1 (31 acres) Winter	Wheat Silage	6-7 Tons	0.8-0.9	200	0	200	15.90	12.72	15.7	13 235 440
VDA #2 (15 acres) Summer	Coastal Hay	4 Cut	8.0-12.0	400	9	394	15.90	12.72	31.0	17 616 363
VDA #1 (15 acres) Winter Wheat Silage	Wheat Silage	6-7 Tons	0 8-0 9	200	0	200	15.90	12.72	15.7	13.235 440

Notes:

Expected yields based on historical data from facility and county. The coastal and wheat will be harvested at a maximum height of 12" to 15" at a minimum of 4" from the ground.

(2) Taken from 30 TAC 309.20(b)(3)(B) Table 3.

(3) From USDA-NRCS Code 590/633 "S Crops" database,

(5) Remainder N required to meet crop demands (crop requirement - residual N),

(6) Estimated N concentration based on wastewater analysis,

(7) Availability of N required utilizing 30 TAC 309C.,

(8) Acre inch of wastewater to be applied based blac-n available N (remainder crop N divided by adjusted plant N). No additional fertilizer is required at this rate,

(8) Application rate to meet crop N requirement.

(9) Total Gallons/Field to be applied (Ac-In/Ac of wastewater x 27154 x Ac = Total Gallons).

Application Methods & Timing

Land Application Methods

The application methods at this facility include center pivot irrigation systems. Treated effluent is distributed to the irrigation systems via existing and proposed pumping plants and underground irrigation piping. The irrigation systems are designed to ensure the uniform distribution of effluent without creating tailwater or runoff.

Irrigation Water Management

Irrigation water management is the process of determining and controlling the volume, frequency, and application rate of irrigation water in a planned, efficient manner. Day-to-day management decisions will be based on the water and nutrient requirements of the crops, harvest schedules, and soil moisture levels.

Soil Moisture Monitoring

The most important aspect of irrigation water management is properly evaluating and monitoring the available soil moisture. Soil moisture in the land application fields is monitored using the feel and appearance method, in accordance with USDA guidelines.

Irrigation Scheduling

The amount of effluent applied during each irrigation event will be determined by soil moisture, crop nutrient requirements, and prevailing weather conditions at the time of application.

The irrigation systems should be operated in accordance with the TLAP and with the following Best Management Practices (BMPs):

- Effluent irrigation will not occur when the ground is frozen or saturated within 3 feet of the surface or during rainfall events unless necessary to prevent imminent overflow of the storage pond.
- Effluent irrigation will not exceed maximum crop nutrient requirements.
- Effluent irrigation will not occur to fallow lands, except pre-watering, as described in the previous section. Application to dormant perennial or winter crops shall be limited to the planned rate shown in the NMP.
- Irrigation practices will minimize the ponding and puddling of effluent and prevent tailwater and the occurrence of nuisance conditions.
- Records of the amount of effluent applied, the crops grown, the planting and harvest dates, and crop yields are maintained for each field.
- Personnel whose job responsibilities require the handling, storage, or land application of effluent should be trained to ensure proper procedures are followed and appropriate records are kept.

Monitoring

Monitoring of irrigation operations should occur before, during, and after effluent application to ensure proper operation and avoid over-application of nutrients. No puddling or runoff should occur. A visual inspection should be performed during

operation to determine if any puddling or erosion induced by irrigation occurs. Corrective actions include, but are not limited to:

- Cease irrigation.
- Increase the speed of the reel gun sprinkler to reduce the application rate.
- Reduce the "on" time interval and increase the "off" time interval for surface irrigated fields.

Monitoring soil moisture, rainfall, and crop evapotranspiration (ET) should occur at least once a week during the growing season.

As part of the monitoring, the annual soil tests will be reviewed. The following best management practices may be utilized to monitor leaching of nitrate-nitrogen:

- Apply effluent during optimal growing conditions and in response to the plant's needs.
- Use of conventional N fertilizers applied close to peak crop N uptake.
- Split commercial fertilizer applications and use a conservative approach to preplant N rate.
- Retain crop residue.
- Regularly adjust irrigation schedules to reflect changes in weather and plant needs or monitor soil moisture values.
- Incorporate organic amendments to improve water-holding capacity and prevent excessive leaching.
- Double cropping with a cover crop or forage crop.
- Use of N inhibitors for reduced leaching from April to June.

Soil samples will be collected from each field in accordance with the TLAP. Sampling will be conducted within the timeframe specified in the TLAP. Effluent samples will be collected as defined in the TLAP to verify the application of nutrients via irrigation.

System Maintenance

The irrigation systems are operated and maintained in accordance with the manufacturer's recommendations. The system's lifespan can be assured and often increased by implementing a thorough operation and maintenance program. The irrigation system is inspected periodically to ensure proper operation of the pumps, pipelines, and sprinklers.

All measuring devices, valves, nozzle heads, surface pipelines, and other mechanical components of the system are inspected periodically, and worn or damaged parts are repaired or replaced as necessary. Worn or improperly functioning nozzles are replaced with the same design, size, and type. Nozzle heads operate efficiently and provide uniform application when they are plumb, in good operating condition, and operated at the planned pressure.

Maintain all pumps, piping, valves, and electrical and mechanical equipment in accordance with manufacturer recommendations. Check and clean screens and filters to prevent unnecessary hydraulic friction loss and maintain the water flow necessary for

efficient pump operation. Protect the pumping plant and all associated electrical and mechanical controls from damage by rodents, insects, heat, water, flooding, lightning, sudden power outages, and sudden loss of the water source. Ensure that all electrical fittings are secure and safe. Always replace worn or excessively weathered electric cables, wires, gas tubing, and fittings as soon as they are first noticed. Check periodically for undesirable stray currents and leaks. Display appropriate bilingual operating instructions and warning signs as necessary. During non-seasonal use, drain pipelines and valves, and secure and protect all movable equipment.

Pollution hazards to ground and surface water can be minimized by following good irrigation water management practices. Losses of irrigation water to deep percolation and runoff should be minimized. Deep percolation and runoff from irrigation can carry nutrients and pesticides into the ground and surface water. Avoiding spills from agricultural chemicals, fuels, and lubricants will also minimize potential pollution hazards to ground and surface water.

8.0 REFERENCES

Information used to develop this plan was obtained, in part, from the following sources:

- Maas and Grattan. 1999. Agricultural drainage water management in arid and semi-arid areas. FAO Irrigation and Drainage Paper 61, Annex 1. Crop salt tolerance data. Retrieved December 2022. http://www.fao.org/docrep/005/y4263e/y4263e0e.htm
- Texas A&M AgriLife Extension. Retrieved 2025. Using Animal Manure and Wastewater for Crops and Pastures. https://agrilifeextension.tamu.edu/library/farming/
- Texas Almanac. Retrieved May 2025. Texas Temperature, Freeze, Growing Season and Precipitation Records by County.

 https://texasalmanac.com/sites/default/files/images/almanac-feature/countyweatherA.pdf
- USDA NRCS Web Soil Survey, Comanche County, accessed May 2025.
- USDA NRCS (2012/2013 TLAP Permit List). Texas Waste Utilization and Nutrient Management 590-633 Plan. Version 5, S Tables.

SOIL ANALYSIS REPORT

ENVIRO-AG ENGINEERING INC 3404 AIRWAY BLVD AMARILLO, TX 79118 **CLIENT:** 6224



6921 S. Bell Amarillo, TX 79109 800.557.7509 806.677.0093 Fax 806.677.0329

INVOICE NO: LAB NO:

37739 - 37747

01/23/2025 01/28/2025 174386 DATE REPORTED: DATE RECEIVED:

	0.00		1																		
SOIL A	SOIL ANALYSIS RESULIS FOR: VOLLEMAN FARMS	KESULI	S FOR	: VOLLI	EMAN F.	ARMS									ш	FIELD ID: COREY MULLIN	CORE	EY MUL	NI		
METHC	METHOD USED:		1:2 Soil-Water		1:2 Soil-Water	(i)	(J)	Cd Reduction	tion			Ň	Mehlich 3 ICP								
Lab	Sample	Sample Depth	Soil PH	Buffer pH	Sol Salts mmho/cm	Excess	% Organic Matter	Nitrate-Nitrogen ppm lb, N/A		Phosphorus ppm P	Potassium ppm K	Sulfur ppm lb	lb S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Ггоп рргт Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
37739	AAB	9-0	8.0		0.31	oJ	1.9	3.0	5	53	337	12	22	4180	528	353					
37740	AAB	6 - 18	7.8		0.74	Ξ	1.4	1.4	5	6	214	21	9/	6450	617	467					
37741	AAB	18 - 30	972		1.65	Ī	1.0	2.4	6	2	143	308	1110	11000	858	632					
37742	HAB	9-0	7.7		0.24	8	0.3	3.2	9	6	68	16	53	1650	179	212					
37743	HAB	6 - 18	7.2		0.34	°N	0.5	2.1	80	20	133	6	32	1330	202	350					
37744	HAB	18 - 30	6.9		69.0	No.	0.5	1.1	^ 4	9	130	80	29	1790	254	293					
37745	PEB	9-0	8.0		0.27	8	0.5	1.3	2	53	78	10	18	1210	260	272					
37746	PEB	6 - 18	8.1		0.50	P	8.0	1.4	2	6	138	12	43	4640	293	572					
37747	PEB	18 - 30	7.5		0.70	Lo	6.0	<1.0	4	2	143	6	32	6190	285	408					
METHO	METHOD USED:			Calculated	TKN																
Lab Number	Sample ID	Sample Depth	Date Sampled	Total N ppm	PPm PPm	Gypsum Rec tons/ac															
37739	AAB	0-6	01/15/25	1230	1227	1.8															
37740	AAB	6 - 18 0	6 - 18 01/15/25	797	962	2.1															
37741	AAB	18 - 30 01/15/25	11/15/25	536	534	3.8															
37742	HAB	0 - 6	0 - 6 01/15/25	373	370	1.2															
37743	HAB	6 - 18 0	6 - 18 01/15/25	348	346	2.6															
37744	HAB	18 - 3001/15/25	11/15/25	336	335	2.0															
37745	PEB	0 9 - 0	01/15/25	427	426	1.9															
37746	PEB	6 - 18 01/15/25	1/15/25	427	426	3.6															
37747	PEB	18 - 3001/15/25	1/15/25	423	422	1.9															

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Ashleigh Laugesen Signer

Reviewed and Approved By:

abbeig Buggsen

Explanations of soil analysis terms are available upon request

01/28/2025 1:12 pm The reported analytical results apply only to the sample as it was supplied. The report may not be reproduced, except in full, without permission of ServiTech.

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SOIL ANALYSIS REPORT

ENVIRO-AG ENGINEERING INC CLIENT:



6921 S. Bell

6224	3404 AIRWAY BLVD									Amc 800 £	0721 3. Beil Amarillo, TX 79109 800 557 7509	6016.	Š	LAB NO:			3773	37739 - 37747	7747	
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				1		www.s	www.servitech.com	n.com		Fax	Fax 806.677.0329	329	DA	E RE(DATE RECEIVED:		01/23	01/23/2025	2	
													DA.	E RE	DATE REPORTED:	ö	01/28/2025	3/202	5	
SOIL ANALYS	SOIL ANALYSIS RESULTS FOR: VOLLEMAN FARMS	MAN FARM	S									1	1 1 1 1	6	FIELD ID: CODEX MILL					
FERTILIZER F	FERTILIZER RECOMMENDATIONS:							JNIJO	S AC	TIAI	POLINDS ACTUAL NUTRIENT DEP ACPE	NT DE	I O G	i u		֓֞֜֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֜֟֜֓֓֓֓֓֓֓֓֓֓֡֓֜֟֓֓֓֓֓֡֓֡֓֡֡֜֜֓֓֡֡֡֓֡֡֜֜֡֓֡֡֜֜֡֓֡֡֡֜֜֡֓֡֡֡֡֡֡	10:30	i		1
Lab Sample	Crop To	Yield	Lime, ECC	C Tons/A to raise pH to:	aise pH to:					1		-	5	إ		ر 		EXC	Cauon Exchange	D)
		Goal	6.0	6.5	7.0	z	6	8	Z	Ø	M	Cu Mgo	0	Ca	ō	2	ا د	Capacity	r)	
37739 AAB								İ				-	+	-		3 8		% %Ca	7E 4E	SNE EN
37740 AAB												+	+	-		3 6			_	
37741 AAB														-		3 2	5 0	7 7		
37742 HAB											+	+				8 5	5 0		_	
37743 HAB												H		-		- 5	> 0	7 0	_	- 1
37744 HAB												+		-		5 5	0	_1		_11
37745 PEB										1				+		2 5	5 0		- 1	_ D
37746 PEB																2 8	5 0	2 2	7	
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SPECIAL CO	SPECIAL COMMENTS AND SIGNESTIONS											-	_	-		DS.	5	8	× ·	٥

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s):37739, 37740, 37747

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 37739, 37742, 37745

Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):37740, 37741

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates)

Lab Number(s): 37741, 37746

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Ashleigh Laugesen

Reviewed and Approved By:

Asheriof Saugesen

Explanations of soil analysis terms are available upon request

01/28/2025 1:12 pm The reported analytical results apply only to the sample as it was supplied. The report may not be reproduced, except in full, without permission of ServiTech.

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SOIL ANALYSIS REPORT

ENVIRO-AG ENGINEERING INC 3404 AIRWAY BLVD AMARILLO, TX 79118 **CLIENT:** 6224



Amarillo, TX 79109 800.557.7509 806.677.0093 Fax 806.677.0329 6921 S. Bell

INVOICE NO: LAB NO:

37739 - 37747 01/23/2025 174386 DATE RECEIVED:

01/28/2025 DATE REPORTED:

FIELD ID: COREY MULLIN

SOIL ANALYSIS RESULTS FOR: VOLLEMAN FARMS

Lab Number(s): 37742

SODIUM - CAUTION (7% to 10% Na): The exchangeable soil sodium (as % Na) is moderately high for sandy-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 37743, 37745

soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information. SODIUM - WARNING (10% to 15% Na): The exchangeable soil sodium (as % Na) is high for sandy-textured soils. Typical symptoms of a sodium problem are

Lab Number(s): 37744

SODIUM - WARNING (8% to 12% Na): The exchangeable soil sodium (as % Na) is high for medium-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number EAE-FacilityID

37743 37742

37741

37744 37745 37746

EAE-ProjectMana EAE-FieldID ger

EAE-SampleSub Comments missionID

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Reviewed and Approved By:

Ashleigh Laugesen

asherigh Frugesen

Explanations of soil analysis terms are available upon request

01/28/2025 1:12 pm The reported analytical results apply only to the sample as it was supplied. The report may not be reproduced, except in full, without permission of ServiTech.

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ENVIRO-AG ENGINEERING, INC.

Enviro-Ag Engineering, Inc. 9855 FM 847, Dublin, TX 76446 Tel. 254-965-3500 Fax 254-965-8000

SOIL SAMPLE CHAIN OF CUSTODY RECORD

Producer/Facility: Volleman Farms

County: Comanche

Date Sampled: 1/15/2025

Date Shipped: 1/20/2025

Project Manager: Corey Mullin

Sample Type	Sample ID	Depth	Test Package	Crop	YG
Soil 3.7	739 AaB 740 AaB	0-6	TCEQ Complete		
- MO1	/4U AaB	6-18	TCEQ Complete		
A 101 C	741 AaB	18-30	TCEQ Complete		
	742 HaB	0-6	TCEQ Complete		
	743 HaB	6-18	TCEQ Complete		
Soil 377		18-30	TCEQ Complete	0	
Soil 311	45 PeB	0-6	TCEQ Complete		
Soil 377		6-18	TCEQ Complete	F CONTRACTOR	
Soil 377	47 PeB	18-30	TCEQ Complete		
			1	100	
				Philippin	
1				1 1 1	
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Company:	EAE	Company:	EAE	Company:	ServiTech Lab
		Date/Time:	1123	130	

Received By:

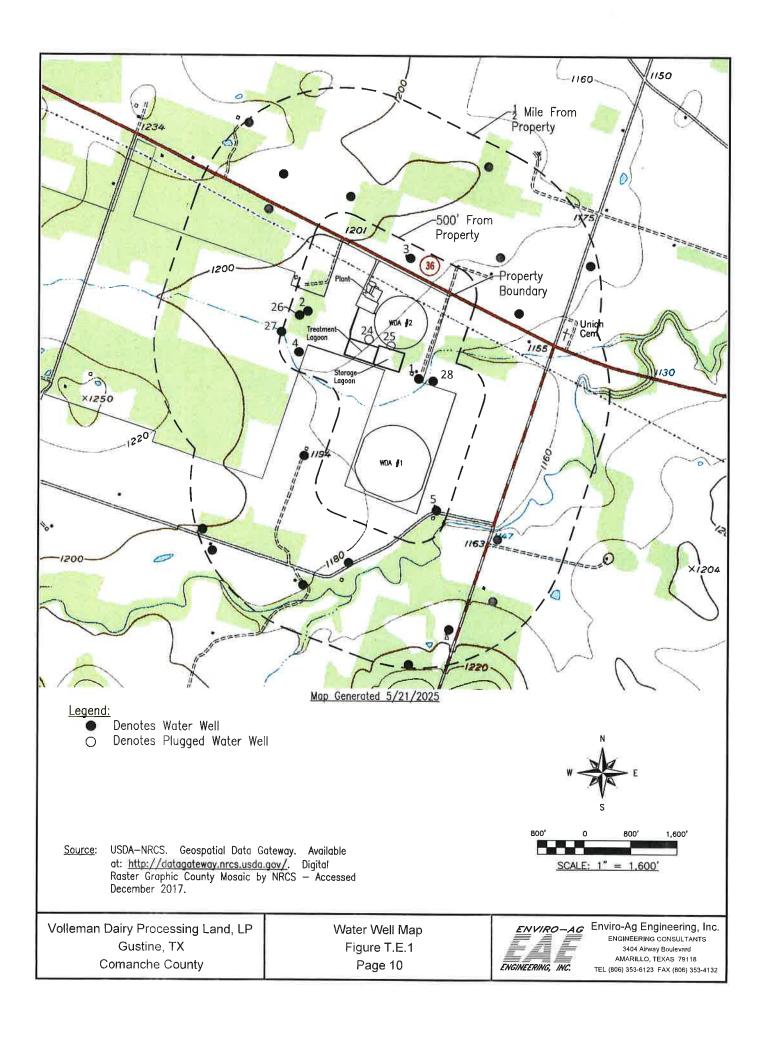
T.E: WATER WELL INFORMATION

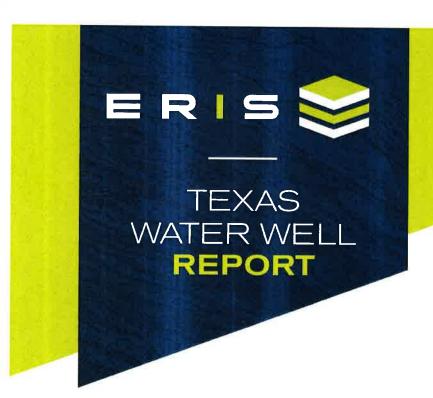
T.E.1 Water Well Map

Figure T.E.1, Water Well Map, shows the locations of water wells within ½ mile of the property boundary.

T.E.2 Water Well Information

Water well data were obtained from various sources, including on-site inspections, Research, a database research firm in Toronto, ON, Canada, and the Texas Water Development Board (TWDB) Water Data Interactive (WDI) online database. The information provided by Environmental Risk Information Services (ERIS) was obtained from various public sources. ERIS does not ensure and makes no warranty or representation as to the accuracy, reliability, quality, or errors occurring from data conversion or the interpretation of its report. The TWDB WDI database includes data from the TWDB Groundwater Database and Submitted Driller's Reports.





Project Property: Volleman Dairy Processing Plant

Volleman Dairy Processing Plant

Gustine TX

Project No:

Order No: 25051200200

Requested by: Enviro-Ag Engineering, Inc.

Date Completed: May 22, 2025

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Executive Summary

Property Information:

Project Property:

Volleman Dairy Processing Plant

Volleman Dairy Processing Plant Gustine TX

Order No: 25051200200

Project No:

Coordinates:

Latitude: Longitude:

UTM Northing: **UTM Easting: UTM Zone:**

-98.43941557 3,523,254.69 553,040.17 14R Target Property Geometry: **POLYGON**

31.84375916

County/Parish Covered:

Comanche (TX)

Zipcode(s) Covered:

Dublin TX: 76446 Gustine TX: 76455

State(s) Covered:

ΤX

Executive Summary: Report Summary

Database	Searched	Project Property	Within 0.50mi	Total
Federal				
FED USGS	Y	0	0	0
State				
TCEQ WELL LOGS	Y	0	19	19
SDRW WELLS	Υ	0	9	9
GWDB	Υ	0	2	2
WW FORT BEND	Υ	0	0	0
WW HIGH PLAINS	Υ	0	0	0
WW HARRIS GAL	Υ	0	0	0
WUD	Y	0	0	0
	Total:	0	30	30

^{*} PO – Property Only

Executive Summary: Site Report Summary - Project Property

Map Key DB

Company/Site Name

Address

Direction

Distance (mi/ft) Page Number

Order No: 25051200200

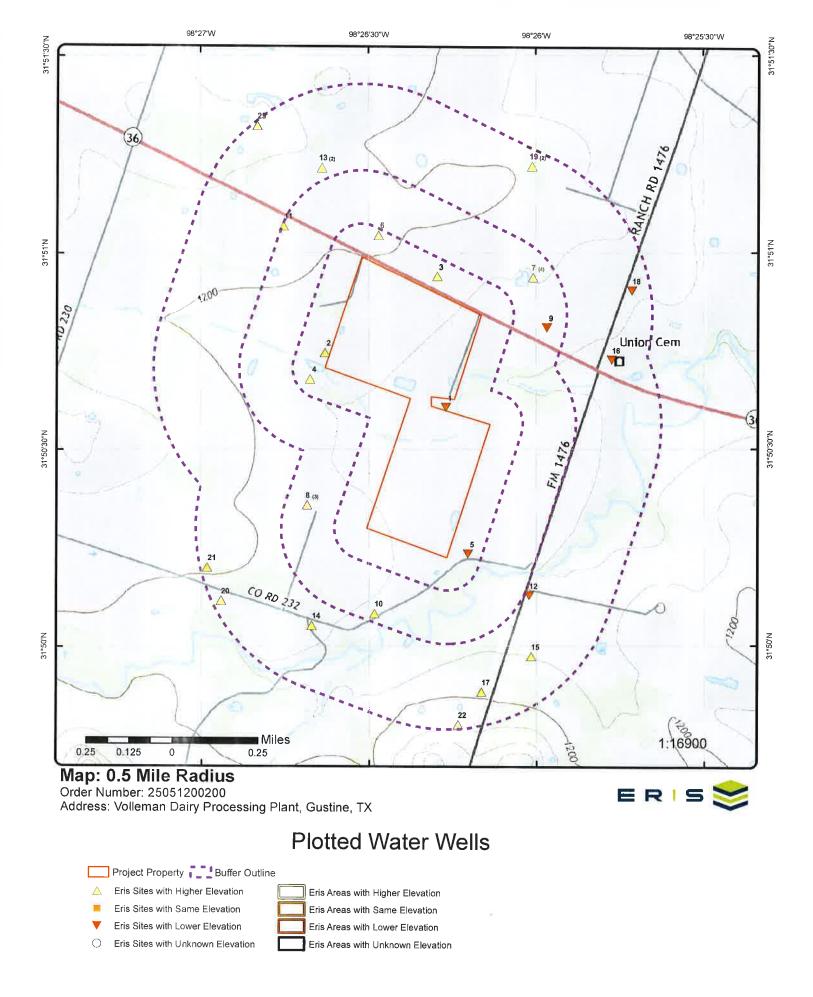
No records found in the selected databases for the project property.

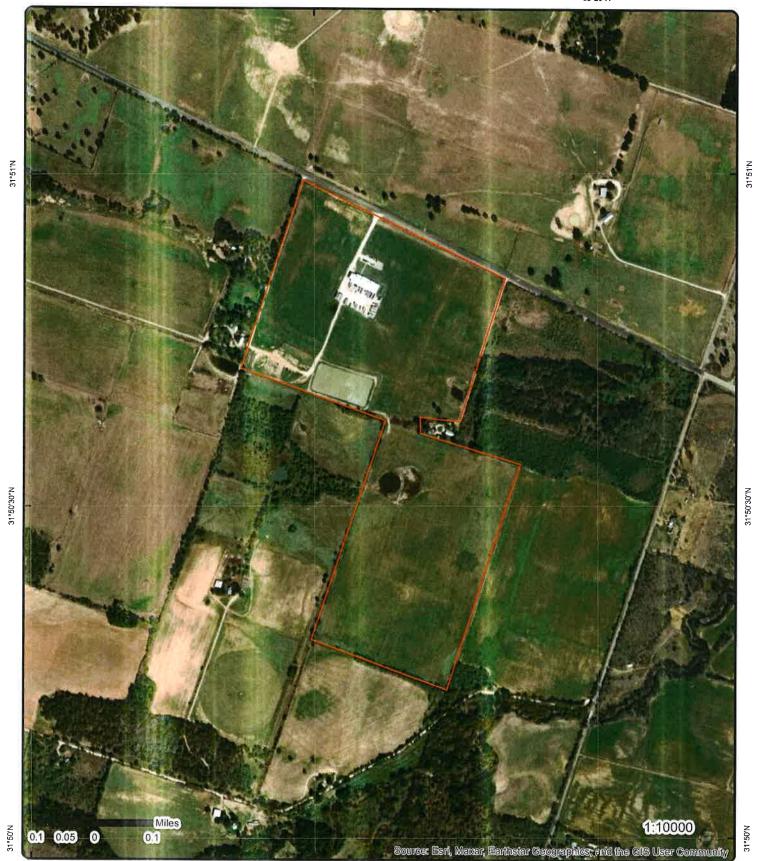
Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
1	TCEQ WELL LOGS	MILTON LOUDERMILK	TX Grid No Owners Name: 41-13-2	ESE 2P MILTON LOUI	0.01 / 50.14 DERMILK	14
<u>2</u>	SDRW WELLS	NEAL YATES	15308 HWY 36 SAME TX 76455 <i>Track NO</i> : 93163	WNW	0.02 / 81.32	<u>17</u>
3	TCEQ WELL LOGS	JULIO JO BAXTER	TX Grid No Owners Name: 41-13-2	NNE 2D JULIO JO BAX	0.05 / 238.68 XTER	<u>18</u>
4_	TCEQ WELL LOGS	ARNOLD PETTIJOHN	TX Grid No Owners Name: 41-13-2	W ? <i>ARNOLD PETT</i>	0.05 / 285.70 TJOHN	<u>20</u>
<u>5</u>	TCEQ WELL LOGS	WADE HALL	TX Grid No Owners Name: 41-13-2	SSE	0.06 / 290.53	<u>23</u>
<u>6</u>	TCEQ WELL LOGS	GAYLAND STEPHENS	TX Grid No Owners Name: 41-13-2	NNW 2V GAYLAND ST	0.08 / 411.08 EPHENS	<u>25</u>
7_	TCEQ WELL LOGS	GAYLON STEPHINS	TX Grid No Owners Name: 41-13-2	NE ? GAYLON STEP	0.19 / 984.82 PHINS	<u>28</u>
7	TCEQ WELL LOGS	GENE LUKER	TX Grid No Owners Name: 41-13-2	NE ?∣ <i>GENE LUKE</i> R	0.19 / 984.82	<u>30</u>
7	TCEQ WELL LOGS	GAYLON STEPHINS	TX Grid No Owners Name: 41-13-2	NE ? GAYLON STEP	0.19 / 984.82 HINS	<u>34</u>
7	SDRW WELLS	Gayland Stephens	TX Track NO: 336895	NE	0.19 / 984.82	<u>36</u>
<u>8</u>	TCEQ WELL LOGS	ROBERT MURPHY	TX Grid No Owners Name: 41-13-2	SW	0.19 / 988.56 PHY	<u>37</u>
<u>8</u>	TCEQ WELL LOGS	D M JOHNSON	TX Grid No Owners Name: 41-13-2	SW C DMJOHNSO	0.19 / 988.56 N	<u>39</u>
8	SDRW WELLS	Robert Murphy	451 CR 232 Gustine TX 76455	SW	0.19 / 988.56	41

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
			Track NO: 374677			
9	TCEQ WELL LOGS	GAYLAND STEPHENS	TX Grid No Owners Name: 41-13-2[ENE	0.19 / 1,029.09 EPHENS	<u>42</u>
10	TCEQ WELL LOGS	RUFUS ADCOCK	TX Grid No Owners Name: 41-13-2	SSW	0,23 / 1,188.75	<u>45</u>
11	TCEQ WELL LOGS	JACK STEELE	TX	NW	0.25 / 1,296.90	<u>47</u>
<u>. 12</u>	TCEQ WELL LOGS	JAMES WILSON	Grid No Owners Name: 41-13-2\	SE	0.26 / 1,394.85	<u>49</u>
13	GWDB	Chester Evans	Grid No Owners Name: 41-13-2F	NNW	0.28 / 1,498.78	<u>52</u>
13	GWDB	Chester Evans	State Well No Owner Name: 411	NNW	0.28 / 1,498.78	<u>59</u>
14	SDRW WELLS	Billy Bell	State Well No Owner Name: 411.	3202 Chester Et	0.33 / 1,721.78	<u>61</u>
<u>15</u>	TCEQ WELL LOGS	W L MCFARLAND	Track NO: 27911	SSE	0.38 / 1,992.58	<u>62</u>
16	TCEQ WELL LOGS	FLOYD ADCOCK	Grid No Owners Name: 41-13-2	E	0,40 / 2,121.47	<u>65</u>
17	SDRW WELLS	Gail Steward	FM 1476 Gustine TX 76455	SSE	0.40 / 2,126.14	<u>68</u>
18	SDRW WELLS	David Teich	Track NO: 144841 Hwy 36 and FM 1476 (SE corner) Gustine TX 76455 Track NO: 33966	ENE	0.45 / 2,354.46	<u>69</u>
19	TCEQ WELL LOGS	WADE HALL	TX Grid No Owners Name: 41-13-2	NNE	0.45 / 2,402.36	<u>70</u>
<u>19</u>	SDRW WELLS	jack nabors	7050 hwy 1476 TX Track NO: 122589	NNE	0.45 / 2,402.36	<u>72</u>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
20	TCEQ WELL LOGS	J R THOMPSON	тх	SW	0.48 / 2,508.88	<u>73</u>
			Grid No Owners Name: 41-	13-2S J R THOMPS	ON	
<u>21</u>	SDRW WELLS	Jarrel Hurst	CR 232 Gustine TX 76455	SW	0.48 / 2,532.32	<u>76</u>
			Track NO: 143478			
<u>22</u>	SDRW WELLS	Mike Thames	comanche comanche TX	S	0.49 / 2,568.75	<u>77</u>
			Track NO: 522196			
<u>23</u>	TCEQ WELL LOGS	W R MCCULLOUGH	TX	NW	0.49 / 2,577.99	<u>78</u>
			Grid No Owners Name: 41-	13-2T W R MCCULL	OUGH	





Aerial Year: 2023

Address: Volleman Dairy Processing Plant, Gustine, TX

Source: ESRI World Imagery

Order Number: 25051200200



Detail Report

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
1 1 of 1	1 of 1	ESE	0.01 / 50.14	MILTON LOUDERMILK	TCEQ
			••••	TX	WELL LOGS
Grid No:		41-13-2P			
Date Drilled	:	06/25/1979			
Owners Nar	ne:	MILTON LOUI	DERMILK		
County:		COMANCHE			
Water Usag	e:	DOMESTIC			
Static Level	:	92			
Depth Drille	d:	128			
Latitude:		31.8434413			
Longtiude:		-98.4378417			

Site

				==				
Sand original copy b			State				For TOWR use only Wall No. 41-13-2	-
Texas Department o P. O. Box 13087	Water Resources		VATER WE				Well No. 41-13-2 Located on map)	/E5
Austin, Texas 7871	1	ATTENTION OWNER	: Confidentia	ality i	Privite	ge Notice on Reverse Side	Received:	TH
1) OWNERM			_ Address		Co	omanche, Texas		
2) LOCATION OF I	WELL:	ame)					(Z	ip)
- County Carrier			_ miles in	(N.E	., s.w.	, etc.)	(Town)	
2 7/3			☐ Legal disc	ription):			
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tion or survey lines, a well on an official Or	or he must locate.	and identify the	Abstract	No.		Survey Name		
General Highway Ma	p and attach the n	nap to this form.	Distance	and d	irectio	n from two intersecting section or s	urvey lines	_
		T	See attach	ed ma	p			
31 TYPE OF WORK		4) PROPOSED USE (Che			- 1	5) DRILLING METHOD (Check)	:	
Mow Well	☐ Deepening	■ Domestic □ Industr		pply		☐ Mud Rotary ☐ Air Hammer	Driven DBored	
Reconditioning	☐ Plugging	☐ Irrigation ☐ Test We	II 🗆 Other	_		GkAir Rotary ☐ Cable Tool	☐ Jetted ☐ Other	
6) WELL LOG:		DIAMETER OF H		71	BORE	HOLE COMPLETION:		
		Dis. (in.) From (ft.) Surface	To ((t.)			n Hole 🗅 Straight Wall	□ Underreamed	
Date drilled 6	/25/79	7 7/E O	128	1 8		vel Packed Other		
Date drilled	, -2/ 1/	1 1/4 5	120	1	If G	ravel Packed give interval from .	0fr. to128	3 n
From To		Description and color of to	rmation	8) (CASIN	IG, BLANK PIPE, AND WELL SCR	EEN DATA:	
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5 7	Yellow Sar			Dia.	or Used	Perl., Stotted, arc.	Setting (ft.)	Gage Casin
7 12	Sand & Gra			-	3-3-3-3-3	Screen Mgf., if commercial	From To	Scree
12 24	Sandy Shall			5	new	Plastic	0 128	200
24 30 30 40	Sand Rock Sandy Shal			-	-			+
40 62	Red Bed							-
62 89		and Rock & Red Be	d					-
89 92	Blue Shale							_
92 117	Sand & Gra							-
117 123 123 128	Sand Rock, Tellow Sha	Sand & Gravel						
120 120	TOTION SHE	11.6				CEMENTING	DATA	•
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				N	lethod	l used		
				c	ement	ed by Harris Orillin	g Co.	-
				9)	WAT	ER LEVEL:	O' THOIVIOUAL	
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13I WATER QUALI		de if necessary)			Othe	r o pump bowls, cylinder, jet, etc.,	ft.	
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water? 🗆 Yes	ITY: gly penetrate any	strata which contained unde	estrabite	D 12)	Othe	o pump bowls, cylinder, jet, etc., L TESTS:	ft.	ed
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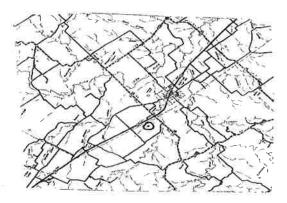
Texas Dept. of Yester Resources



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BECEINED



The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential. Please note that the term "Commission" in the above-quoted section and elsewhere in the Water Well Drillers Act now properly means the Texas Department of Water Resources (P. O. Box 13087; Austin, Texas 78711).

"Every registered water wall driller defilling, deepening, or otherwise aftering a water wall within this State shall make and keep, or cause to be made and keep, a legible and accurate well log, and within skrty (60) days from the completion or destation of drilling, deepening or otherwise aftering such a water well, shall deliver or transmit by certified mail at the reduct in writing to the coor or destation of shall deliver or transmit by certified mail frhe coor or the person having had such well log required herein shall at the request in writing to the commission, by certified mail, by the owner or the person having such well drilled be had say the owner or the the coor is writing to the contract of the coordinates of public record."

The Water Well Drillers Board and the Department of Water Resources are concermed that some percons having water wells drilled may not be aware of the confidentiality privitege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVING TO THE PROPERTIBENT PRIVIPER OF CONFIDENTIALITY

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
2	1 of 1	WNW	0.02 / 81.32	NEAL YATES 15308 HWY 36 SAME TX 76455	SDRW WELLS
Track NO:		93163			
Date Submit	tted:	2006-09-20			
Owner Name		NEAL YATES			
Owner Addr	ess:	15308 HWY 36			
Owner Addr					
Owner City:		GUSTINE			
Owner State	:	TX			
Owner Zip:		76455			
County:		Comanche			
Type of Wor		New Well			
Typ of Wrk					
Proposed Us		Irrigation			
Prop Use Of	h Descr:				
Latitude:		31.846111			
Longitude:	C441	-98.450001			
Drilling Date		2003-10-11			
Chemical Ar	Completed:	2003-10-11 No			
Company Na		F & F DRILLING	INC		
Company Ad		301 HWY 2921	INC		
CompanyAd		30111001 2921			
Company Ci		DE LEON			
Company St		TX			
Company Zi		76444			
Company Co		70777			
Data Source		Full SDR Databa	se: SDRDR W	ell Location (Map)	
Report Link:	•	https://www3.two	db.texas.gov/ap	ps/waterdatainteractive/GetReports.asp	ox?Num=93163&Type=SDR-Well
Well Boreho	le Information				
Top Depth:		0			
Bottom Dept	·h ·	130			
Bottom Dept	11.	130			
Top Depth: Bottom Dept	h:	130.0			
Well Levels					
Measuremen	.4-	82			
weasuremen Measuremen					
incasureillen	L Date:	2003-10-11			

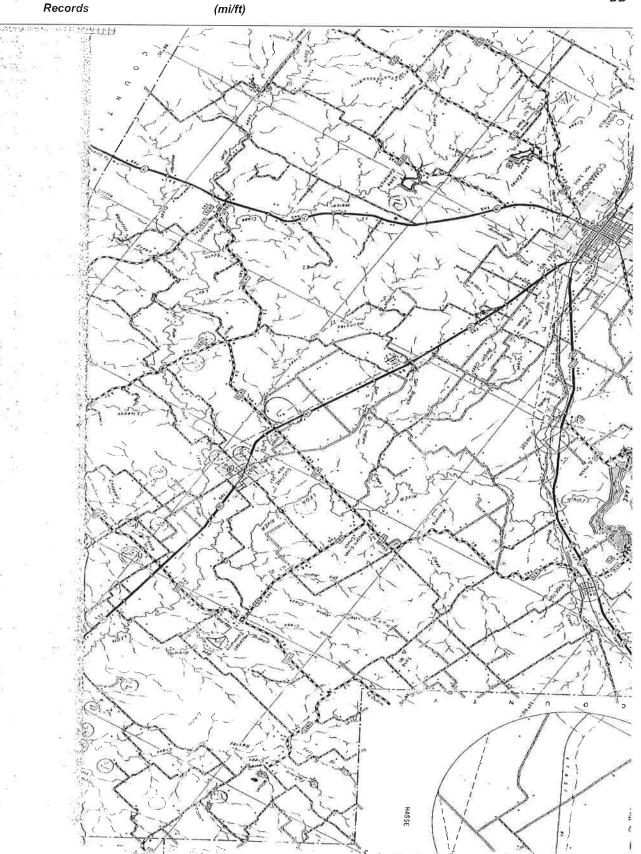
Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
3	1 of 1	NNE	0.05 / 238.68	JULIO JO BAXTER	TCEQ
			230.00	TX	WELL LOGS
Grid No:		41-13-2D			
Date Drilled	:	06/03/????			
Owners Nar	ne:	JULIO JO BAX	(TER		
County:		COMANCHE			
Water Usag	e:	DOMESTIC			
Static Level	:	40			
Depth Drille	d:	60			
Latitude:		31.849016			
Longtiude:		-98.438259			

s y se ^e						
Send original copy by certified mail to the Texas Water David lopment Board P. O. Box 12386 Auntin, Texas 78711		ate of Toxas ER WELL REPO	RT			For TWDB use only Well No. 4/-/3-2 Located on map / 2 S. Received: 7 Form GW 8 Form GW 9
1) Owner: Person having well drilled Julia Landowner Julia Jo Bo	Jo Baxter	<u> </u>	Addr	ess (Sireet or RF	E. Cent	cal Caroche (State) (City) (State)
2) LOCATION OF WELL: County Connection What NET SWT SET of Section Corces as many in our security Wiles in (NE. EW. stc.)	Cansache.	League	.ll	7	Abstract No Survey Jan	455 as Hamelton No. 82
Sket 3) TYPE OF WORK (Gheck): New Woll IE Occupening	or survey lines, and ro A) PROPOSED USE Domestic	with distant landmarks,	es from roads,	and creeks.	5) TYPE O	P WELL (Check):
Reconditioning D Flugging D 6) WELL LOG: Diameter of hole 8 in. Dept.	Irrigation □	Test Well	□ Oth	ested voll 66	Cable Cable	Jetted Bored C
From To (ft.) To formation 3 10 Clay 10 25 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Sould Soul 25 50 Soul 25 50 Sould Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25 50 Soul 25	and color of	From (ft.)	To (ft.)	pve ground level	escription and formation mat	color of serial
7) COMPLETION (Check): Straight wall Gravel packed Gothor Under reamed Open hole	. 0	1.0		(Use reverse		Date
9) CASING: Type: old O New Steel O Plastic Commented from ft. to C	£t.	10) SGRI Type Per:	forated		Slotted	
(inches) From (ft.) To (ft.)	200	(inches)		From (ft.)	To (ft.)	Slot
11) WELL TESTS: Was a pump test made?	If yes by whom?	12) FURSI		г'я Маре		
Yield:gpm withft. Bailer testgpm withft. Artesian flowgpm Date Temperature of water Was a chemical analysis made?Yes Did any atrata contain undestrable water? Type of water?dept	drawdown afterhra	Desi Type Dapt	goed pur power :	mping rate		
NAME Way land Fronter Address R.R. Carry of Property (Signed) Way land Tronter	y that this wall was dri the statements herein a chouse Louse	re true to t	he best	my supervision of my knowledge ers Registration	and belief	Jeras (State)
Please attach electric log, chemical analysis	s, and other pertinent in	nformation,	if avail	11-	Cny Name)	

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
4	1 of 1	W	0.05 / 285.70	ARNOLD PETTIJOHN	TCEQ
			203.70	TX	WELL LOGS
Grid No:		41-13-2			
Date Drilled	:	07/27/1991			
Owners Nai	ne:	ARNOLD PET	TIJOHN		
County:		COMANCHE			
Water Usag	e:	DOMESTIC			
Static Level	!:	80			
Depth Drille	ed:	135			
Latitude:		31.844659			
Longtiude:		-98.444593			

N 13			13.			Desir.		
Please use black ink. Send original copy by	State					Texas Wole	r Well Oriflers	Board
certified mail to the Texas Water Commission P.O. Box 13087	WATER W	ELL	REP	ORT	N = 8.35	P. O. Box 1	3087	50044
Austin, Texes 78711	ATTENTION OWNER: Confiden	tiality	Privileg	e Notice d	on Reverse Side	Austin, Te	cas 78711	
1) OWNERArnold Pett	i john Address		р. о	.Box 6	3, Gustine, TExa	s 7645	5	
2) LOCATION OF WELL:	(Name)	(St	reat of	RED)	. (City)			f(+)
County	1 miles in		., s.w.		direction from	Gusti		
Manager and supplied to	D Legal des							_
Oriffer must complete the legal description with distance and direction from two	O interesting rec				ock NoTown			
well on an official Quarters or Half-S	te and identify the Abstrac		of O		_ Survey Name			
General Highway Map and attach the	map to this form. Distance	e and c	firectio	n from tw	o intersecting section of sur	vey lines		
	x See attac	hed ma	p.					
3) TYPE OF WORK (Check):	4) PROPOSED USE (Check):		100		5) DRILLING METHOD	(Check):	0.0	Oriven
Shew Well Deepening	y∰ Domestic ☐ Industrial ☐ Monitor			ly ii	Mud Rotery, Air	Hammer I	Jetted 🗆 E	Bared
☐ Reconditioning ☐ Plugging	☐ Irrigation ☐ Test Well ☐ Injection	Othe			☑ Air Rolary ☐ Cat	le Tool i	Other	
61 WELL LOG:	DIAMETER OF HOLE Dis. (in.) From (ft.) To (ft.)	7)	BORE	HOLE CO	MPLETION:	121		
Date Drilling:7/24/91	II Surface 41		Ope	n Hole rel Packed	Straight Wall		Underreamed	
Started	83 41 135				od give interval from	48	ft. to13:	5 .
From To							11. 10	
(fix) (fr.)	Description and color of formation material	8)	CASIN	G, BLAN	K PIPE, AND WELL SCRE	EN DATA:		
0 17 top soil, sa 17 21 sandy shale	and & caliche	Dia.	New	Steel	, Plastic, etc.	Sett	ing (f1.)	Gage
21 37 sand and ere	tvel	(in.)	Used Scre		, Plastic, etc. , Slotted, etc. en Mg1., if commercial	From	То	- Casing Screen
_37 _ 62 _ red_bad_and_	green shale	8 N		Sch 40		41		
62 87 sand, sandste 87 127 sand and era	one & small gravel "	5	N		17 PVC	0	115	
87 127 sand and gra 127 135 red, yellow	& ereen clay			54.01	ced casing	115	135	178
	e green clay	1						
	331.03.0	91	CEME	UTING D	ATA (Rule 319.44(b))	41 C 10		1
				ed from	0 , 46 ,	200	Sacks Used	8
		4			ft. toft.	No. of	Sacks Used_	
### 145 E HE 5		-		used	driller	- 1		
9			Cemen	ed by				
24 00 5 8 5 70 F		10)	SURF	ACE CON	PLETION			
199] (Spe	citied Surf	ace Slab Installed [Rule 31:	9.44(c)]		
	1) E B B II W P				r Used (Rule 319,44(d)) ernative Procedure Used (R		1	
<i>U</i>	H - S G U U G INI	_				ule 3 (9,71)		
	DEC 1 1 1001	11)	WATE	RLEVEL		1 1771		
**	× 1 1991	1	Stet	ic level	80 (t. below lend so	irfece Da	7/27	/91
	XAS WATER COMMISSION		Arte	sian flow,	gpm,	. De	ite	-
		12	PACK	ERS:	Тура		Depth	
7		13)	TYPE	PUMP;				
] -	Turbi	ne	□ Jet □ Submersib	le 8	Cylinder	
		-	Other	14	- V.			
	side if necessary)	i D	epth to	pump bo	wis, cylinder, jet, etc.,		ft.	
IS) WATER QUALITY; Old you knowledly penetrate an	y strata which contained undesirable	141	MINT A	TEOTE.	by others			
water? Yes X ONo		1 ''''	Type	TESTS:	Pump Boiler	S Jatted :	.	
If yes, submit "REPORT OF UN Type of water?	Destrable water"		Yield:	-> r		grawdown i		
Was a chemical analysis made?	□ Yes ② No				9	3.077007777		••
t here by certify that this we knowledge and belief. I und	elf was drilled by me (or under my supervi) derstand that failure to complete ltems 1 -	77) and 17 12 W	i ihat a Lii rasu	ach and al	l of the statements berein a gis) being returned for com	e true to the	ne best of my I resubmittel,	
COMPANY NAMEDalton	n Drilling & Service Water W	/ell Dri	ller's L	icensa No.	860/285	DW .		
ADDRESS P.O.Box 208	3, Hamilton, Texas				×	ž.,		
(Signed) Lom Da	th (Sign				(State)		Z(p)	
ferensed	Water Well Ordler) slysis, and other pertinent information, if av			Registered	Well	TWC use		
				-	Loc	ited on me	10 41 11 13 P	

Site



Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
5	1 of 1	SSE	0.06 / 290.53	WADE HALL	TCEQ
ř			230.00	TX	WELL LOGS
Grid No:		41-13-2			
Date Drilled	:	05/31/2000			
Owners Nar	ne:	WADE HALL			
County:		COMANCHE			
Water Usag	e:	IRRIGATION			
Static Level	:	60			
Depth Drille	d:	160			
Latitude:		31.837209			
Longtiude:		-98.436761			

Companies Ry Companies Ta 764 (StreetorRFD) (City) (State) (2p) Companies Ta 76442 (City) (State) (2p) Grid # 41-13-2)
Monitor
Air Hammer Cable Tool Jetled
Borehole Completion (Check): Open Hole Straight Wall Underreamed Stravel Packed Other If Gravel Packed give interval from 160 n. lo 15 n
CASING, BLANK PIPE, AND WELL SCREEN DATA: Din. Now or Perf., Stotled, etc. Setting (ft.) Caste (ft.) Used Screen Mfg., If commercial From To Screen Mfg.
10) SURFACE COMPLETION Specified Surface Slabinstalled Specified Steel Sleeve Installed Pitless Adapter Used Approved Alternative Procedure Used
11) WATER LEVEL: Static tevel
12) PACKERS: Type Depth
and that each and all of the statements therein are true and correct funderstand that failure and resubmitted. G WELL DRILLER STLICENSE NO. SOOLWPY. (City) (Signed) (Registered Driller Traineo)
ple o (I

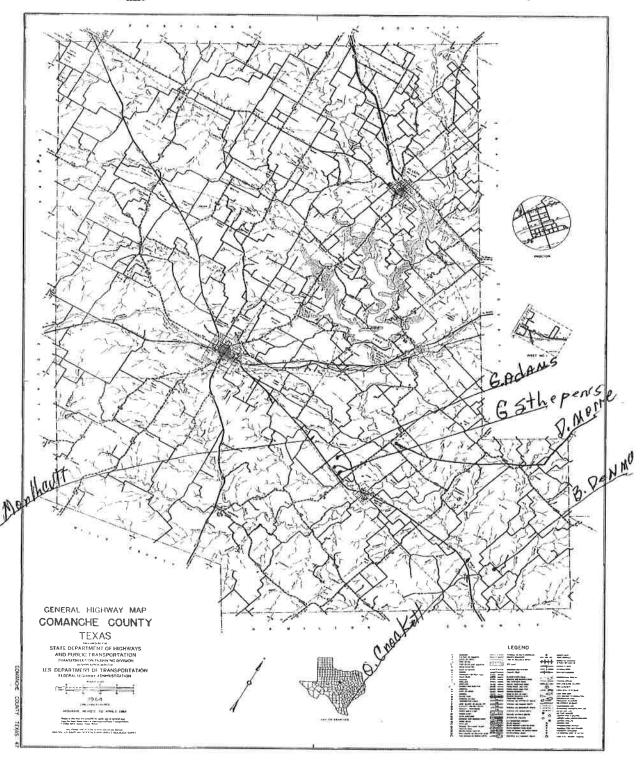
Map Key	Number of Records	Direction	Distance (mi/ft)	Site	⊕ DB
6	1 of 1	NNW	0.08 / 411.08	GAYLAND STEPHENS	TCEQ
			477.00	TX	WELL LOGS
Grid No:		41-13-2V			
Date Drilled	!:	11/18/1983			
Owners Nar	ne:	GAYLAND ST	EPHENS		
County:		COMANCHE			
Water Usag	e:	IRRIGATION			
Static Level	:	70			
Depth Drille	ed:	140			
Latitude:		31.8507646			
Longtiude:		-98.4411868			

Site

a	· •							
Send original copy by Certified mail to the Texas Department of Water Resource P. O. Box 13087 Austin, Texas 78711	, WA	State of TER WE	ELL	REP		P.	exas Water Well Drillers . O. Box 13087 .ustin, Taxes 78711	Board
1) OWNER Hough	1 Stephens	Address	-		- contain	Comen	one towns	6446 nl
Oritler must complete the legal descrip with distance and direction from two tion or survey lines, of the must locate well on an official Quarter- or Half-Sc. General Highway Map and attach the r	ntion to the right intersecting sec- and identify the ole Texas County map to this form.	Abstract Distance	No No and d	irectio	Survey Nam in from two intersecting	ne g section or surve	hip	
3) TYPE OF WORK (Check): New Well Deepening Reconditioning Plugging	4) PROPOSED USE (Check Domestic Industrial	i): D Public St	ylgqu	p. 10	5) DRILLING METH	IOD (Check): Air Hammer - 🗆	Driven Bored	
6) WELL LOG:	DIAMETER OF HOLDia. (in.) From (ft.) // Surface		7)	⊐ Ope	HOLE COMPLETION:		☐ Underreamed	
Date drilled _//- /8-83 From To (ft.) (ft.)	Description and color of forms	ation	8)			el from	ft. to	ft.
0-3 3-15 15-25 25-45	Sand Clay+Sand Sandyclay Yellow		Dia, (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc Screen Mgf., if co	mmercial	Setting (ft.) From To 0 - 140	Gage Casing Screen
70- 80 80- 100 100- 132 132- 140	Sand B Red Bl Sand d Ye ilo	store ueClay grave UShel						
	**************************************		^	lethod	CE ed from lushd ed by	(Company or	3	
				Static	ER LEVEL: love1	low land surface		-83
	D) E @ E W E		10}	PACK	(ERS: Typ	pe De	epth	
(Use reverso s	DEPT. OF WATER RESOURCE	S		Turb Other	·	□ Submersible	200	
Did you knowingly penetrate any water? Yes No If yes, submit "REPORT OF UNIT Type of water?	strato which contained undesin	able	12)		~~~	□ Bailer C	It. □ Jetted	
COMPANY NAME SQ (A.O.	I hereby certify that this well each and all of the statements dres Prig.	herein are tr	ue to t	he bes	der my supervision) an st of my knowledge and licensa No.	d that I belief.		
ADDRESS BOX 69	Print)	0	m c			TEXAS	7640	ر2
(Signed)	Pater Well Drillers Of Congress and other pertinent inform	(Signi	2.3/(2.2)		(Registered Driller Teal	Wal	TDWIJute only 2V	£.s.
DWR-0392 (Asv. 5-27-82)	DEPARTMENT	T OF WAT	ERR	ESOL	JRCES COPY			

comments to value to be being used end quest stiff to be to be the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of





Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
7	1 of 4	NE	0.19 / 984.82	GAYLON STEPHINS	TCEQ WELL LOGS
Grid No: Date Drilled Owners Nan County: Water Usag Static Level Depth Drille Latitude: Longtiude:	ne: e; :	41-13-2 05/14/2001 GAYLON STE COMANCHE IRRIGATION 65 130	PHINS	8	

									1	
Attention Owner: Confidentiality Privilege Notice on reverse side of owner's copy.		57 Austin, Tex	Dritter/Pump	Installer Pro 12/463-788	gram		and and	l filed w I owner	nust be con ith the dep within 60 letion of th	artment days
		Email address	: water.well	@license.st					terebu (c) es	C ALCH
All the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	- A. WI	ELT, IDENTI	ELL REI	PORT	ATTON	DATEA	39224373.	12.0000	J-3000	Con to
1) OWNER	Address	ELL IDENEII	1	ity	TO S	PALA			数何有	, harry
GAYLON STEPHINS		.R. 304			BUCH		TX		76°	
2) WELL LOCATION				A SHATE WAS	1.14.	10.5	1247	江, 东	まださ	da C
COMANGE	Physical Addre	~ FA. 14	176 0	ity / miles	Floor	Huse	State		2ip	
3) Type of Work	Lat.	/ / / / / / / / / / / / / / / / / / / /	Lo		T. Come	iny.	Grid# 4	1 - 1	13- Z	
New Well Reconditioning	4) Proposed	Use (check)	Monitor	Cavirons	mental Soil	Boring D D	omestic	5)		NÎ
Replacement Deepening	☐ Industrial	Irrigation [Injection (Public Sc	apply 🔲	De-watering [Testwell	ĺ .		
N D MIL D	Rig Supply		If Public Suppl							
6) Drilling Date		meter of Hol				hod (check)				
Started 51 14101	Dia.(in)	From (ft)	To (ft)			Mind Rotary Cable Too		127)
Completed 5 / 14 / 01	83/4		130	Oth		- Cable For	N Ca Jeffed			
From (ft) To (ft) Descrip	tion and col	or of formatio	n material	8) Bor	ehole Co	mpletion.	Open H	ole 🖸	Straight	Wall
0-2 SAND		•		O U	nder-rear	ned O'Grav	el Packed C	Othe	r	
2-28 clay				Casi	vel Packed ng. Blani	rive the interve k Pipe, and	Well Screen	Data	0 / 30	fi.
28-31 SAND		-			New	Steel, Plasti				Gage
0 1	AV			Dia.	Or Used	Perf., Slotte				Casing
41-72 SANO				1,"	N	PINGTIL		-		Screen
72-89 Red 6	LAY					7 1131.12	2007110	120	150	-10
89-100 SANO	Rick									
100-121 SAM	1 SYLANGE	Rock								
121-130 Shai	c			9) Cer	nenting	Data	ر سو ر			1
(Use reverse side of Well	Owner's conv. I	F nanaceama)		Ceme	nting from		0	#of sa	cks used _ cks used _	<u></u>
13) Plugged				Method Coment	Used_Pt	SE DE	list			
Casing left in well: Cement/Bentonite	placed in well:			Distance	to septic s	system field or o	ther concentral	ted cont	mination	ft.
From (ft) To (ft) From (f	0 T	o (ft)	Sacks used	-	A-100 March		AUTHE	_		
				The second		om pletion c Slab Installed	e e			
14) Type Pump				■ Speci	fied Surfac s Adapter I	e Sleeve Install	ed 4'-	/o* .	STECA	,
☐ Turbine ☐ Jet ☐	Submersible 🗀	Cylinder				astive Procedure	Used			
Other	ſt.			10.00	ater Lev	al				
15) Water Test				Static le	vel_ (0.2	1. below	Dute 5/	141	01	
Typetest Pump Bailer Jette Yield: 20 gpm withft, draw	d G Estimates	hrs.		Artesian	Flow	FILE ID	Date /		1-7	
16) Water Quality				12) Pa	ckers		Гуре	C	pih a	
Did you knowingly penetrate a strata white YES NO If yes, did you submit	REPORT OF L	INDESIRABLE V	i. VATER			GMP #			L	V 15,10==-1
Type of water	Depth of St	rata					IUL 1 8 2	001	07 BR70	
Company or individual's Name (ty	- r	E36 /	7 av	1		COMMENT	Lic. No.	2 2	- **	0.
0 0		FUF L	11:19					131	200	<u></u>
Address / 1 /30x	34		City	Del	200		State 10	-	zip /	444
Signature Jun Part		5 / H		ignature	Apti	o odarita	rigripa i sur	maini	Date .	MESTS

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
7	2 of 4	NE	0.19 / 984.82	GENE LUKER	TCEQ
				TX	WELL LOGS
Grid No: Date Drilled Owners Nai County: Water Usag Static Leve, Depth Drille Latitude: Longtiude:	me: e: l:	41-13-2 08/25/1990 GENE LUKER COMANCHE DOMESTIC 75 147			

Send of threat copy by certified mail to: Tex	as Weter Con. Apr., P.O. Bo	x 13057, Aue	riin, Te	ces 787	11			Please use	black ink.
ATTENTION OWNER: Confidentially Privilege Notice on Reverse Side		State WELL					P.	er Well Drill O. Box 1308 In, Texas 78	
2) LOCATION OF WELL;	Name)	ADDRE		NE. SW		95 Gust O) (O	ine lity)	Texas (State)	(Zip)
factor sould personal the level decaded.	- 4 - 4								
Driller must complete the legal description cuarter- or Hait-Scale Texas County Get LEGAL DESCRIPTION: Section No Block No Distance and direction from two into SEE ATTACHED MAP	neral Highway Map and attach the	ne map to this	form.	Wraci No	s		-		ificiali
3) TYPE OF WORK (Check): New Well Deepening Reconditioning Plugging	4) PROPOSED USE (Chec X Domestic Industr Irrigation Test Vi	noM D Mon			blic Supply -Watering	5) DRILLING MET			
6) WELL LOG:	DIAMETER OF HOLI	E		ŋ BO	REHOLE CO	MPLETION:			
Date Drilling: Started 8/22/ 190 Completed 8/25/ 19 90	Ola. (in.) From (ft.) 7 7/8 Surface	To (ft.) 147		K	Open Hole Gravel Packet raivel Packet	Streight Wall Other give interval from _		to <u>147</u>	
From (ft.) To (ft.) D	escription and color of formation	hhotem		n ca	SING, BLANI	K PIPE, AND WELL SCI	REEN DATA:		
0 5	Brown san	d &		New	Steel, Pla		Setting	(0.)	Gage
5 0	sandy sha		Ola. (in.)	or Used	Perf., Sio		From	To	Casting Screen
<u>8</u> <u>50</u>	Red Sandy	shale	5	new_	Pvc 1		0	147	214
20 25	Brown gan water san	d rock	5		Pvc 1		$-\frac{77}{27}$	87 147	214
25 50	Brown san			1041	Per	rf. 7/32	1 7 7	-41	1.214
50 65	& clay				12				
65 75 75 88	Red Bed Grey shal Water sand		6	Cer	mented from thod used in	pour h. w		cke Used	
	Submersible			Cer	nented by	Harris Dr	illing	Co.,	Inc.
Other	i		'		REACE COM Specified Sur	PLETION face Stab Installed Ru	io 287.44/2\(A\)	1	
14) WELL TESTS: COMPTES				X	Specified Ste	et Sleeve Installed [Rule er Used [Rule 287,44(3	e 287.44(3)(A)]		
Type Test: Pump DE		itimated				emative Procedure Used		<u> </u>	
15) WATER QUALITY: Did you knowlingly penetrate any stroons/stuents?	100	hrs.	1	Stell	TER LEVEL: Ic level	ft. below land :		ete <u>8/2</u> 1	5/90
☐ Yes 🍎 No Il yes, submi	THE PORT OF THE STATE OF	MONTH OF	1	2) PAC	KERS:	Ту	pe	Depth	
Type of water? Was a chemical analysis made?	THE PROPERTY OF THE PARTY OF TH	100 //							
hereby certify that this well was drilded by in at failure to complete Items 1 thru 15 will re	(Adunder my supervision) por	hat each and	all of th	o atutor	nents herein i	are true to the beat of my	knowledge an	d belief, I und	erstand
OMPANY NAME Harris Dril	Ting Co Inc				LER'S LICEN				
ODRESS Rt.	3 TEXAS WATERS BO	ARD Co				Texas	7	6442	
Signed) Bully &	Larres I Well Driller)		(Sity)			(Statement Del	3077	(ZIP)	
lease attach electric log, chemical analysis,	CAMMON ENTROPE (F)	lf evallable.		Г	or TWC use	(Registered Dri		d on man	
	,					many revented. Tr. 1	Localo	- continue	

WWD-012 (Rev. 05-18-90)

and the second

Order No: 25051200200

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

9 4 12.

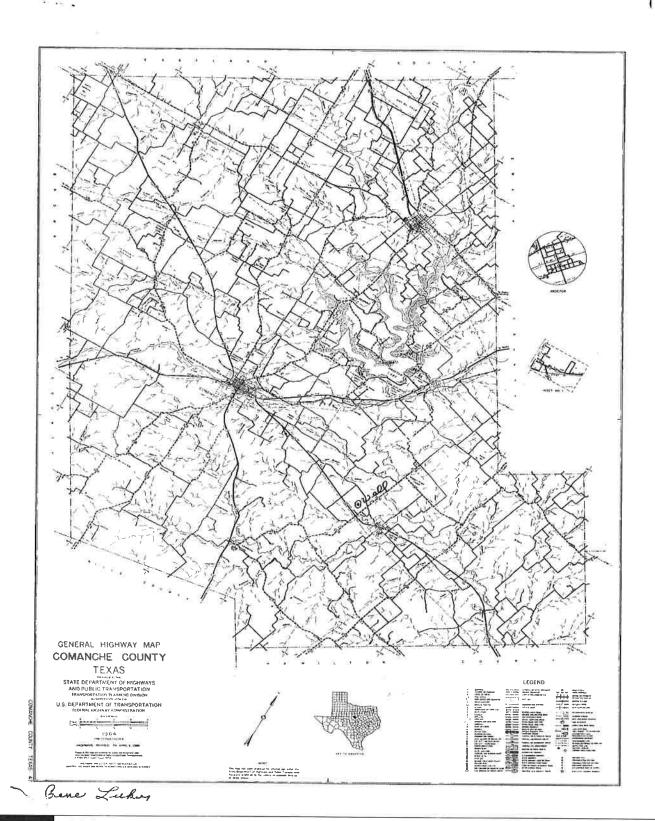
The Water Well Drilliers Board and the Texas Water Commission are concerned that some persons having wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drilliers Act. Section 5, the Reporting of Well Logs, reads as follows:

"Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 60 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mall a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a Commission copy, shall include the name, mailing address, and telephone number of the Board and the Commission. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (IL)	Description and color of formation material
88	95	Red Bed
95	10	Grey Shale
102	12	
		& sandy snale
120	14	Hard water sand
		& gravel
141	14	
	- 110	
		45
		1 1
		*** I
		- 10 M M/C

Site



Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
7	3 of 4	NE	0.19 / 984.82	GAYLON STEPHINS	TCEQ
				TX	WELL LOGS
Grid No:		41-13-2			
Date Drilled	:	05/15/2001			
Owners Nar	ne:	GAYLON STE	PHINS		
County:		COMANCHE			
Water Usag	e:	IRRIGATION			
Static Level	:	75			
Depth Drille Latitude: Longtiude:	d:	130			

Attention Owner: Confidentiality Privilege Notice on reverse side of owner's copy.	P.O. 80x 121	57 Austin, Tex. Tol. Email address	Driller/Purnes 78711 If free (800) Water.we	p Installer Pro (512)463-780 (803-9202 Il@license.sl EPORT	ogram 80 FAX (5 late.tx.us	12)463-8616	and and upo	s form must be filed with the owner within a completion	department 60 days
1) OWNER	A. 'Vy	ell idento	ICATIO	AND LO	ATION	DATA	and property	J office S	4.44
Name	Address			City		بالملاحمة	State	Zip	Marian CA
GAYLOW STEPHINS	4180 0	.K. 304	9	Comi	WC HB	5	TX	76	4412
2) WELL LOCATION	-1	CONTRACTOR		ened - 14	P-1-1	11.144	3. 1 - 4 - 2	- 1819, 411	A2-1-4
County	Physical Adda	ess		City			State	Zip	
COMANCE	NORTH	ON FR.	1476	0.1 mil	5 F10	in Muy	36		
3) Type of Work	Lat.			ong,			Grid# 4	1-13	-2
New Well Reconditioning	4) Proposed	d Use (check)	Monito	r 🔲 Environ	mental Soil	Boring 🚨 D	omestic	5)	NÎ
Replacement Despening		Irrigation C							
6) Drilling Date	Rig Suppl			oply well, were					
Started <u>5 / 18 / 01</u>	Dia.(in)	ameter of Hole				had (check)			
Stated		From (ft)	To (ft)			Mud Rotary Cable Too			đ
Completed 5 , 15 , 01 8 94 0 130				Oth		Cable Too	Jetted		
					ici				
From (ft) To (ft) Descrip	tion and col	or of formation	n materia	R) Box	ehola Ce	muletien	O Open Ho	la D Cumi	ale Wall
0-4 Clay	11011 1211 0 001	01 01 101 21000	.) Mave11a	- "Du	nder-rear	ned De Grav	el Packed	l Other	gnt wan
		? .		If Gra	vel Packed	give the interva	Liron 15	ft. to / 3	5 n.
4-18 SANDA B	15701 K	ock		Cast		7 -0	Well Screen		
18-35 SAMA C	1144			Dia,	New Or	Steel, Plasti Perf., Slotte		Setting (ft) Gage Casing
91-109 SAVIL	4			(in.)	Used		if commercial		Co Screen
	aca. I d	n		6"	N	PINSTIL	SINTE	95 13	5/8
120-124 SAND	grave o	KOKK		_					
124-135 Shalt	229							-	-
io, iso Shan				9) Cer	menting	Data			_
		-		Ceme	nting from	O ft 10	15 n	#of sacks us	ed 4
(Use reverse side of Well	Owner's copy, I	If necessary)			Used Du		fi.	# of sacks use	ed be
13) Plugged	d within 48 h	ours		Coment	ing Bf ,=	2F Dan	y		
Casing left in well: Cement/Bentonite From (ft) To (ft) From (f		'o (ft)	Sacks used	- Method	e to septic s of verifica	system field or o tion of above di	ther concentrate	ed contaminat	ionft
Trong 10 (10) Prom (.,	o (ii)	Sacks used					Constella	
						ompletion e Slub Installed	2.1	10/ ST	201
14) Type Pump					ified Surfac is Adapter (31-	10. 37	
☐ Turbine ☐ Jet ☐	Submersible C	1 Cylinder				native Procedure	Used		
Depth to pump bowls, cylinder, jet etc.,	R.			11) W	ater Lev	s.t			
15) Water Test	. m/	8		Static le	vel	5 ft. below	Date 51	15101	
Typetest D Pump D Bailer D Jette Yield: ZO gpm with ft. draw	d UP Estimate	d hrs.		Artesiar	Flow	gpm.	Date/		
16) Water Quality				12) Pa	ckers	\$ 	уре	- L Shepth	
Did you knowingly penetrate a strata while YES DINO If yes, did you submit	ch contain undes a REPORT OF U	irable constituents. JNDESTRABLE W	ATER						
Type of water	Depth of St				Ek	ON NON	C	locco no	
was a chemical analysis made (4 yes	CJ NO					نالال	4 8 2001		
Company or individual's Name (ty	pe or print)	FAF L	Ocillia	5		THENT	Lic. No	3313	NPK
Address RIT / BO	x 34			iy Del	col		State Td	Zig	6444
1 9 1		~ .	0.1					-	
Signature they nonth		5115	101	Signature					

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
7	4 of 4	NE	0.19 / 984.82	Gayland Stephens	SDRW WELLS
			304.02	TX	
Track NO:		336895			
Date Submi		2013-08-20			
Owner Nam		Gayland Stephe	ens		
Owner Addi		7178 FM 1476			
Owner Addi		O the .			
Owner City: Owner State		Gustine TX			
Owner Zip:	;.	76445			
County:		Comanche			
Type of Wor	rk:	New Well			
Typ of Wrk		1404 44011			
Proposed U		Irrigation			
Prop Use Of		ganon			
Latitude:		31.849445			
Longitude:		-98.434167			
Drilling Date		2013-07-22			
	e Completed:	2013-07-22			
Chemical Ai		No			
Company Na		F&F Drilling			
Company A		301 Hwy 2921			
CompanyAd		Balana			
Company Ci Company St		DeLeon TX			
Company Zi		76444			
Company Co		70444			
Data Source		Full SDP Databa	aco: SDBDB M/	II Location (Map)	
Report Link:		https://www.3.tw	th teves gov/an	in Location (Map) os/waterdatainteractive/GetReports.aspx?Num=	00000507
rtoport Emir.		nttps://www.5.twt	ab.texas.gov/ap	os/waterdatainteractive/GetReports.aspx?Num=	336895&Type=SDR-Well
Well Boreho	le Information				
Top Depth:					
Bottom Dep	th:	150.0			
Top Depth:		0			
Bottom Dept	th:	150			
Well Levels					
Mana	.4.	0.4			
Measuremer Measuremer		91			
weasurerrer	n Date.	2013-07-22			

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
8	1 of 3	sw	0.19 / 988.56	ROBERT MURPHY	TCEQ
				ΤX	WELL LOGS
Grid No: Date Drilled Owners Nan County: Water Usag: Static Level Depth Drille Latitude: Longtiude:	e: :	41-13-2 06/12/2000 ROBERT MUF COMANCHE DOMESTIC 48 130	RPHY		

ATTENTION OWNER: Confidentiality Pavilege Notice on reverse side of Well Owner's copy (pink)		of Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 76711 612-463-7880					
1) OWNER LO DENT Non 2) ADDRESS OF WELL'S LOCATION: County Costant Research	v) /	BOVE	(Street or RFD)		n 9832	7X 76 (State) Se (4) 3/ -/3 - 2	
TYPE OF WORK (Check); New Wnit Deepening Reconditioning Phygging	(4) PROPOSEDUSE(Check):IIndustrialIrrigation If Public Supply well, were plans s	Injection 🗂 F	*************************************	g Z-Đóme	stic	5}	
6) WELL LOG: Date Drilling: Started 5 / 19200 Completed 7 3000	DIAMETER OF HOLE DIa (In) From (ft.) To (ft.) 7 / 8 Surface / 3 o	Ai	ING METHOD (Check ir Rolary Mud R r Hammer Cable T ther	olary 🔲 Bored			ń
0 5 ned s	and color of formation material		nole Completion (Check Inderreamed Grave Inderreamed Grave	Packed (Other		41 N.
40 41 send	liste shela.	CASING, 8 Dia. or (in.) Used	Perl., Sletted, etc.			ng (ft.)	Gage Casting Screen
	shelse flime.	the repr	PNO 361	40 fed	100	10.0	
(Use reverse side of Well Owner 13) Well plugged within 48 lawers Casing left in well: Cement-bentonil From (ft) To (ft) From (ft) 14) TYPEPUMP:	e placed in well; Sacks used: To (ft)	Method Cerner Distant Method	n.	es or other conce	No. of sack	g unimation	
	1. Jetied Estimated	Pill Ap		lure Used			
Type of water? De	ORT OF UNDESIGNABLE WATER	Static II Artesia 12) PACKE			Date _	Depth	<u>10</u> 0
i certify that I drilled this well (or the well was to complete items 1 thru 16 will result in the frame of the company NAME (Type: ADORESS (FreetorRi	drilled under my direct supervision) and open period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of th	resubmiltet.	all of the stelements he DRILLER'S LICENSE NE	(22) 75	J	understand th	at failure

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
8	2 of 3	sw	0.19 / 988.56	D M JOHNSON	TCEQ
			500.00	TX	WELL LOGS
Grid No:		41-13-2C			
Date Drilled	:	05/25/1967			
Owners Nar	ne:	D M JOHNSOI	٧		
County:		COMANCHE			
Water Usage	e:	DOMESTIC			
Static Level	:	65			
Depth Drille Latitude: Longtiude:	d:	130			

Site

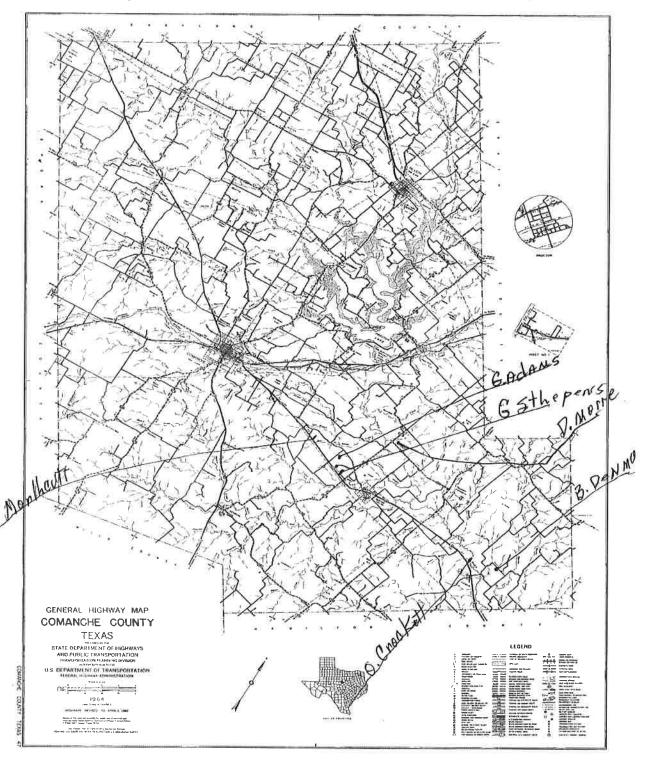
	1		uke .								
Sand artisteet as the		1"= 2 ml	10,02	2. Sin	20				GW 7		
Send original copy by cortified mail to the			Stat	te of Texa	,		1	for TWDB use only	у		
Texas Water Developmen	t Board			1 0	S		13	Well No. 4/- /3	- 2C		
P. O. Box 12386 Austin, Texas 78711	3	A. >	WATER	VELL	DI 380			Located on map	1		
10,111	1	8 0	\ /	30)	Ho	ale.	. 0 1	OFM CW B			
N. Salasana		2/1	(P)	SOX-		H.J	de	form CV 9			
1) OWNER: Person having well	drilled D. F	1000	/	1	Addre		Gustine,	Texas	(Store)		
Landowner	same	- >	1.	7 17			(6)		1State1		
2) LOCATION OF WELL: County Come	nche Labor_	=	1	Yeague_	•	-	_ Abstract No	1.52	Navarra I		
and and all and				nuomeen t							
NN NET SWE SET			Block	No.			Survey_Jas.	Hamilton			
INE, S.M., etc.	direction from	(Fown)						Fell	ORTH		
									7		
									'		
								20			
	Ske	ech map of well lo	ocation w	ith distan	ces from	adjacent secti	οπ				
		or survey lines,	, and to	landmarks,	roads, a	ind creeks.					
3) TYPE OF WORK (Check		4) PROPOS	ED USE (Check):			5) TYPE OF	WELL (Check);			
	Deepening	Domest	ile XX II	ndustrial	☐ Mumic	ipal 🗆		Driven Du	ng 🗀		
Reconditioning 🖂	ttion 🗖	Test Well	- Othe	. 0	Cable B	Jetted 🗀 Bo	ered (
6) WELL LOG:	8	7 -	30			2.2		- /-	2.595		
Diameter of hole	in. Dept	lı drilled	f	t. Depth	of compla	ted well 13	O ft. Da	te drilled 5/2	25/		
	ALI	measurements made	Eron			ve ground level			07		
From To	Description	and color of		From	To	I .	N-04-54				
(ft.) (ft.)	formation	unterial		(ft.)	(ft.)		formation and	cotor of erial			
	top soil & re	d_bed		82	118	hard sar	sand rock & blue clay				
	caliche			118	126		er gravel				
	pack sand			126	130		llow clay				
	vater sand		-								
	red bed			-							
_ 40 55 1	orown and blu	e clay									
	red bed										
73 82 v	water sand					(Use reverse	side if necess:	DEV)			
7) COMPLETION (Check):				8) WATER LEVEL: 5 ft. below land surface Date							
Straight wall 🗆 0	ravel packed og Othe	T 🗀		Sta	tic level	i 6 D (r. belo	w land surface	Date			
Under reamed 🖂 O	nen hole 🗇			1							
9) CASING:						ssureIns.	per square inch	Date	- auto-		
Type: old New	Steel C Plastic	CX Other C		10) SC!							
Cemented from		· <		l		7-71-11-					
Cemented iron				Pez	forated		Slocted 🚰				
Diameter (inches) From	Setting To (ft	Gag		Diamete		Set	ting	Slot			
	(ft.) To (ft) 130	.)		(fncher	:)	From (ft.)	To (ft.)	7.05pc			
	200			_ 2		110	130	1/4"			
			100								
11) WELL TESTS:				12) PU	P DATA:						
Was a pump test ead	e? 🗆 Yes 💯 No	If yes by whom	m?	Nar	ufacturer	's Name					
									-		
				-							
	pm with it.	drawdown after -	hre	Тур	c		H	(.P			
Bailer test 20	gpm withft.	drawdown after _	lırs	Des	igned pur	ping rate	8	nm 🗆 onk	h 🖂		
Actesian flow	gpm Date							shen — She			
					не ромет и						
Temperature of water		v	Dep	th to bow	rls, cylinder,	jet, ětc.,		_ft.			
Was a chemical anal		l _ №		bel	o⊮ land s	urface.					
Did any strata cont-	ain undesirable water	? 🗆 Yes 💆	Mi No								
Type of water?	dep-	th of streta									
	I hereby certi	fy that this wall	was dell	led by me	(pr under	my annamical-	n) and then				
	each and all of	the statements l	merein ar	e true to	the best	of my knowledge	ny and that				
NAMEJoe_C	- Dalton					rs Registration	44.0)			
115	E. Henry	ен	milto			MARTHET METO					
Address	W2 H10 / - 17/	116	1165-51				Texas				
(Signed)	Cillo Dr.		(City)		De	alton Dri	114	(Store)			
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	(Woter Watt Deliter)				n n		lling & S	el.ATC6			
						1			1		
Please attach electric	log, chemical analysi	s, and other pert	inent in	formation,	If avail	able.					
						-					

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
8	3 of 3	sw	0.19 / 988.56	Robert Murphy 451 CR 232 Gustine TX 76455	SDRW WELLS
Track NO: Date Submi Owner Nam Owner Addr Owner City: Owner State Owner Zip: County: Type of Wor Typ of Wrk of Proposed U Prop Use Of Latitude: Longitude: Drilling Date Drilling Date	e: ress: ress2: r: rk: Oth Descr: se: th Descr:	374677 2014-09-14 Robert Murphy 451 CR 232 Gustine TX 76455 Comanche New Well Domestic 31.839167 -98.444722 2014-07-01 2014-07-02			
Chemical Ar Company Ar Company Ar Company St Company St Company Zi Company Co Data Source Report Links	nalysis: ame: ddress: idress2: ity: ate: p: country:		7 ise; SDRDB We	ll Location (Map) os/waterdatainteractive/GetReports.aspx?Nu	m=374677&Type=SDR-Well
Well Boreho	le Information				
Top Depth: Bottom Dep	th:	0 141			
Top Depth: Bottom Dept	th:	141.0			
Well Levels					
Measuremer Measuremer		28 2014-07-02			

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
9	1 of 1	ENE	0.19 / 1,029.09	GAYLAND STEPHENS	TCEQ WELL LOGS
Grid No: Date Drilled Owners Nar County: Water Usag Static Level Depth Drille Latitude: Longtiude:	me: e: ;	41-13-2D 11/15/1983 GAYLAND ST COMANCHE IRRIGATION 70 140	EPHENS		

6								
Send original copy by cartified mail to the Texes Department of Water Resources P. O. Box 13087 Austin, Texas 78711	WATER W	of Texas Water Well Drillers Board ELL REPORT P. O. Box 13087 Austin, Texas 78711						
1) OWNER Starlier	assession Address	RA.3. Company to Toxes NAU						
Driller must complete the legal descrip with distance and derection from two iton or survey lines, or he must locate well an an official Quarter or Half-Sca General Highway Map and attach the national Highway Map and Attach Highway Map and attach the national Highway Map and attach the national Highway Map and attach the national Highway Map and attach the national Highway Map and attach the national Highway Map and attach the national Highway Map and attach the national Highway Map and attach the nattach the national Highway Map and attach the national Highway Ma	tion to the right Section to the right section give and identify the Abstract Texas County sap to this form.	Block No						
3 - 15 15 - 25 25 - 45 45 - 70 70 - 80 80 - 98 98 - 130 130 - 140	Clay + sandycka Sandyclay + sand Yellow Clay Red Clay Sand Store Red + Blueclay Sand ogravel Vellow She II	Used Screen MgI, if commercial From To Screen 7 N Plastic, 0:140						
±		CEMENTING DATA Comented from						
	N E G E I V E D	10) PACKERS: Type Depth						
(Use govern e	DEPT. OF WATER RESOURCES	11) TYPE PUMP: Drufbine Det Submersible Cylinder Dopth to pump bowls, cylinder, jet, etc., ft. 12] WELL TESTS: Type Test: Pump Baller Jetted Estimated Yield: 50 gpm with ft. drawdown after hrs.						
13) WATER QUALITY: Did you knowingly penetrate any water? □ Yes ▼ No If yes, submit "REPORT OF UND Type of water?	strata which contained undesirable							
COMPANY NAME Say	each and all of the statements herein are t	by me (or under my supervision) and that rue to the best of my knowledge and belief. Well Oriller's License No. 977 PCAC TEXAS 76442						
(Signed) [Liconylow Please attach electric log, chemical analysis	ater Well Driller) (Signater Well Driller)	(Registered Oritler Trainee) For TDWR use only wall no. 91-73 - 20						
DWR-0392 (Rev. 5-27-82)	DEPARTMENT OF WAT	Located on map 767 C. C. 2.						

. 301460



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
10	1 of 1	ssw	0.23 / 1,188.75	RUFUS ADCOCK	TCEQ
			1,100.75	τx	WELL LOGS
Grid No:		41-13-2			
Date Drilled	:	04/22/1999			
Owners Nar	ne:	RUFUS ADCC	CK		
County:		COMANCHE			
Water Usag	e:	DOMESTIC			
Static Level	:	102			
Depth Drille Latitude: Longtiude:	d:	125			

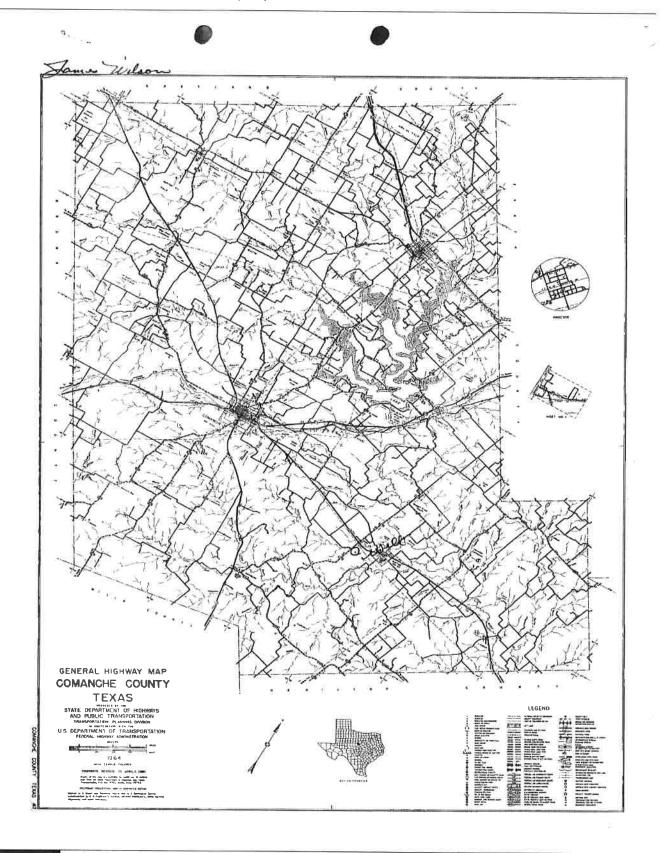
ATTENTION OWNER: Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink)	of Texas REPORT				Texas Water Well Drillers Advisory Counci MC 177 P.O. Box 13087 Auslin, TX 78711-3087 512-239-0530				
1) OWNER Rufus Adood	K ADDO	4	628	Barw	ick Dr.,	Ft.Wor	th,	Texas	76132
(Na	ame)	.98		(Street or		(City)		(State)	(Zip)
2) ADDRESS OF WELL: County Comanche	C R 232					G	alb # '	41-13-	2
	(Streat, RFD or other)	(City)		(State) (Zi	p)			
3) TYPE OF WORK (Check):	1				ental Soll Borling	Domes Domes		5)	
New Well Deepening	(Industrial Imigation In								
☐ Reconditioning ☐ Plugging	il Public Supply well, were plans su	ibmitted	lo the T	NRCC?	□ Yes □ No				
6) WELL LOG:	DIAMETER OF HOLE	7)	DRILLII	NO METH	OD (Check): [Driven			
Date Drilling:	Dia_(m.) From (ft.) To (ft.)	-				Bored	- 1		
Started 4/21/1999 Completed 4/22/1999	7 7/8 Surface 125	1			Cable Tool	☐ Jelled			
Compressed			[] Othe	r			- 4	•	νŢ
From (ft.) To (ft.) Descrip	tion and color of formation material	8)	Boreho	le Comple	etion (Check):	☐ Open Ho	te 20	Streight Walt	
	Red Clay	1	Und	erreamed	Gravel Pac	ked 🗆 C	ther	-	
5 18 Calache			If Grave	Packed g	eve interval from	, 35	1t	to 125	11
18 32 Rock Le	dges & Seep	CAS	ING, BL	ANK PIPE	, AND WELL SCI	REEN DATA:			
	& Rock Ledges		New	Steel.	Plastic, etc.		Sett	ing (ft.)	Gage
	ck Ledges andy Shale & Sappa	Dia. (in.)	or Used	Perl., 5	Slotled, etc. 1 Mig., If commerci	_	From	<u> </u>	Casting
102 120 Water S	and Cravel Frock	5	net		·Sch 40	igi .	0	To	. 258
120 125 Yellow	and & Gravel & Rock Ledges	5	ne		.Sch 40	Perf.	105	125	258
1 20 125 Yellow	Shaie					3/16	100	122	- 230
(Use reverse side of Well On	vner's copy, if nacessary)		Methodi Cemente Distance	ised edby Ha to septic:	A (Rule 338,44) 0 ft. to pump rris Dri system field lines o	lling or other conce	No. of s	, Inc.	
☐ Turbing ☐ Jet ☐ Submers	ible [] Cylinder	-							
Oliver				E COMP					
Depth to pump bowls, cylinder, jet, etc.,		,			ce Slab installed Sleave installed	•			
14) WELLTESTS:	comprésso				Used (Rule 338.	-	(a)(v)[
Type test: Pump Bailer	☐ Jetted ☐ Estimated	177			Well modeline		8:71)	1	
Yield: 25 gpm with	ft, drawdown after hrs.	110	WATER	I EVEL :			-	SEON	
4-1					EMPIty below las	St surface-	Date	4/22/	99
15) WATER QUALITY:	which again and an about the		Artesian			D . A	9930	DESC CO	
Old you knowingly penetrate any strata constiluents?	which contained (Indestrable				0.0	N I CH	999		
☐ Yes ဩ No If yes, submit *AEF	ORT OF UNDESIRABLE WATER	12)	PACKER	RS:	COMMENT	Турн	· — —	- Papti	1
Type of water?	Depth of strata							30	
Was a chemical analysis made?	Yes 🗀 No								
I hereby certify that this well was drilled by m understand that fallure to complete items 1 ti	Tru 15 will result in the log(s) being returned	for con	of the ste	laments h	erein are true to th	e best of my	knowledg	ge and balief. I	1
COMPANYNAME Harris Dri	lling Co., Inc.	٧			LICENSE NO. 3	27			
(Тур	e or print)						-		
ADDRESS Rt.		_	iche		Texa	The Street of the last	764		
(Street or	REUJ		City)			(Stat	9)	(Zip)
(Signed) Dellay Ha	1 Weil Driller)	_ (Signed)		104	gistored Drill	as Teoire	10)	
650. 65	ase attach electric log, chemical analysi	e, and c	iher per	tinent inf			1104]E	,,,,	- 1

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
11	1 of 1	NW	0.25 / 1,296.90	JACK STEELE	TCEQ
			1,200.00	TX	WELL LOGS
Grid No: Date Drilled Owners Nar County: Water Usag Static Level Depth Drille Latitude:	ne: e: :	41-13-2V 08/03/1977 JACK STEELE COMANCHE DOMESTIC 38 65			

end original copy by ertified mail to the exas Water Development Roard	State of	Texas		For TWDB Well No.	477-73- 2N
. O. Nox 13087 watin, Texas 78711	WATER WELL	REPORT		Received	287
		72-24-20-20			
1) OMNER: Person having well drilled Jack Ste	elc	Address	Gustine, Texa	s	
Landowner Same	(Name)	(Str Address	Same	(City)	(State)
(Name)	7	(Ser	eet or RFD)	(City)	(Sente)
2) LOCATION OF WELL; county Comanche	[HZE] DIL	s in	direction from	2	
		(N.E., S.W., 0	tc.)		Town)
locate by sketch map showing landmarks, roa hive sumber, etc. *		adjacent sa	location with distantions or survey lin	nees and direction nes. League	
36735	DATE NOTE !	35 Nock		Survey	
	1 * 1	Abstract Ho			
(Use revers side if necessary)		(HALL NEW SH	k SEk) of Section_		
3) TYPE OF WORK (Check): New Well X Deepening	PROPOSED USE (Check): Domestic X Industr		5) TYPE OF WI	ELL (Check): Driven	Dug
Reconditioning Plugging	Irrigation Test W	ell Other	Cable	Jetted	Bored
6)WELL LOC: Diamater of hole 63/4 in. Depth dy	111ed 65 65	Donth of government	65		. 9/3/77
	urements made from	Ω	ve ground level.	rt. Date drille	a_ 0/5///
From To Description and	d color of	9) Casing;	- Second level:		
O 4 Sand Dry	sterial	Type: Old	New X Stee		
4 10 Sandy Clay		Cemented from		ft. to30	E
10 20 Dry Sand 20 28 Grey Shale		Diameter (inches)	From (ft.)	To (ft.)	Gage
28 32 Rock		4	0	65	.200 wal
32 38 Grey Sandy Shale					, 200 mai
38 40 Sand Water				-	
40 42 Rodk 42 45 Yellow Glay		10) SCREEN:			
45 64 Water Sand, Rock	& Blue Shale	Type	200 wall Plas	tic	
64 65 Red Bed	S DEGE DIREC	Perforated	x	Slotted	
		Diameter (inches)	Section (ft.)	g To (ft.)	Slot
		4	35	65	Size
				- 05	7/32
(Use reverse side if necessor:	()				
COMPLETION (Check):		11) WELL TESTS:			
Straight wall X Gravet packed X	Other		est made? Yes	No X If yes	, by who⇒?
Under reased Open Hole;		Yield:	gpm gpm with	ft. drawdown	afterhrs
Static level 38 ft, below land nurface	d', nate 83ck 8/3/77	Bailer test_	gpm with	ft.drawdown a	fterhr
Artesian pressure	:h Date	Artesian flow	mrt 9		
Depth to pump bowls, cylinder, jet, etc.	ft.	Temperature o			
below land surface.		12) WATER QUALITY: Was & chemics	il analysis made?	Yes	No X
	24	Did any strat	a contnin undesirab	le water? Ye	в НоЭС
		Type of water		_depth of strata_	
I hereby certify the	at this well was drilled statements herein are	d by me (or under m true to the best of	my supervision) and my knowledge and b	that elief.	
NAMEBilly Harris		ter Well Drillers F		327	
			1445-515-515-51		
ADDRESS Rt. 3	11	Comanche.	Texas		
(Type or Print)	(City)	Comanche,	Texas	(State)	
ADDRESS Rt. 3			rilling Co.		

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
12	1 of 1	SE	0.26 / 1,394.85	JAMES WILSON	TCEQ WELL LOGS
Grid No: Date Drilled Owners Nan County: Water Usag: Static Level Depth Drille Latitude: Longtiude:	ne: e: :	41-13-2R 05/25/1981 JAMES WILSO COMANCHE DOMESTIC 107 128	DN		

0. 2 viii.	ā	(•			
Send original copy certified mail to th Texas Department	by of Water Resources			State (ELL	REP			For TDWR use only Well No. 4/-/3-3	1R
P. O. Box 13087 Austin, Texas 787	11	ATTENTIO	ON OWNER	: Confidenti	ality	Privile	ge Notice on Reverse Sid	le	Received: C. 6	·S.,
1) OWNER	James Wils	on		_ Address _		Com	anche, Texas			
2) LOCATION OF	F WELL:				(St	rset or		(City)	(State) (2)	p)
CountyC	omanche			mites in	IN,E	., s,w.	, etc.) direction from		(Town)	
Delles where and		electrocrateres ocease	450	☐ Legal desc						
tion or survey linus well on an official !	ete the legal descrip firection from two i i, or he must locate i Guarter or Half-Sca Aap and attach the o	ntersecting sec and identify th	- IR	Abstract	No.		Block No Survey Name In from two intersecting sect			
				☐ See attach	ed ma	p.				
3) TYPE OF WOR	K (Check):	4) PROPOS	ED USE (Che	ick):			5) DRILLING METHOD	Check):		
New Walt	☐ Deepening			ial 🗆 Public Si			☐ Mud Rotery ☐ Air He			
☐ Reconditioning 6) WELL LOG:	g Pługging			II Other				Tool (Jetted D Other	
WELL LOG:		Dia. (io.)	VETER OF H	To (ft.)			HOLE COMPLETION: In Hole	r Wall	□ Underreamed	
Date drilled	5/25/81	6 3/4	Surface	128	1		rel Packed Other			
Date drilled	-,,	- 2/4				If G	avel Packed give interval .	from _	0_ft. to12	.8_ ft.
From To	i .1	Description an	id color of for material	rmation	8)	CASIN	G, BLANK PIPE, AND WEI	.L SCRE	EN DATA:	
0 2	Brown Clay				Dla.	New	Steel, Plastic, etc.		Setting (ft.)	Gage
2 8	Black Clay				(in.)	or Used	Perf., Slotted, etc. Screen Myf., if comme	raint		Casing
8 10	Brown Clay	7			4	new	plastic, .200		From To 128	Screen 200
10 13	Sandy Clay	7				1	perforated 7/2	32	108 128	_
13 28 28 35	Dry Sand Grey Sands	- Chale								-
35 75	Red Bed	-anare				\vdash				
75 90	Rock									
90 107	Rock & Rec	l Bed								
107 123	Water Sand		1							
123 128	Yellow Sha	ale								
							CEMEN	TING DA	ATA	
				24		ement	od from30	ft.	10 70	
		0)		- 47	١.	dethod	ed by Harris D			
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					91	MAT	R LEVEL:	mpany b	r Individuali	_
					1 "					
			RECEIV	EU			level 107 ft; below f	and surfa	Date 5/25/81	
			JUL 20	1002		-				
			JULAU	1302	10)	PACK	ERS: Type		Depth	
			CRZTL	Jyrıt	-	_				
					11)	TYPE	PUMP:	1.		
						Turb	Inc	Submersit	bla 🗀 Cylinder	
					☐ Other					
		de if necessary)			epth t	pump bowls, cylinder, jet,	etc.,	ft.	
13) WATER QUA					_	_		_		
Did you know: water?	ingly penetrate any les SNo	strate which co	ontained unde	rairable	1		TESTS:			
If yes, submit "REPORT OF UNDESIRABLE WATER"				☐ Type Test: ☐ Primp ☐ Bailer ☐ Jetted ☑ Estimated						
Type of water Was a chemical		— Depth of st ☐ Yes □	rata		1	Yield	: gpm with	ft,	drawdown after hr	s.
£.7		I horeby certi	ify that this w	vall was drilled ats herein are to	by ma ue to	(or un the bes	der my supervision) and that t of my knowledge and balic	t t	-	
NAME	Billy Harris						tration No32		25	
	(Type or							-		
ADDRESS	(Street or RFD)		Rt. 3,	Comanche		XAS				
(Signed)	Clip La			(Cit		ria	Drilling Co.	te)	(ZIP)	
	(Water	Wall Driffer!			-			ny Name)	-
	c log, chémical snah	ysis, and other	pertinent info	ormation, if av	ailable	50				
DWR-0392 (Rev. 1-	12 79)	C	PEPARTME	NT OF WAT	ERR	ESOU	IRCES COPY			



Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site DB
13	1 of 2	NNW	0.28 / 1,498.78	Chester Evans GWDB
			1,400.70	TX
Well Rep Tr	ack No:			
State Well N	lo:	4113201		
Owner Nam	e:	Chester Evans		
Drilling Star	t Dt:			
Drilling Mor	nth:			
Drilling Day	:			
Drilling Yea	r:	1955		
Well Depth:		160		
Well Usage:		Unused		
Water Level	Status:			
Latitude:		31.8527780		
Longitude:		-98.4447220		
Data Source);	Groundwater D	atabase (GWDE	B) Reports; GIS shapefile of GWDB well locations
Well Info Re	port:	https://www3.tv	vdb.texas.gov/ag	pps/waterdatainteractive//GetReports.aspx?Num=4113201&Type=GWDB
Document L	.ink:	https://www3.tv	vdb.texas.gov/ar	pps/waterdatainteractive//GetScannedImage.aspx?Num=4113201&Cnty=Coman

Site

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	±6 × *			(4)	
	TELAS WATER COMMISSION				
	WELL SCHEDULE				
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	Aquifor TIOSSTON Flaid No.	State Well	W-41-13	-20/	
	Owner's Well No.	County	Coma	nche Co	
		27		20,70,70,70	
	1 1,000,000 170 170 170 800 40000				
	1. Location: 1/h, 1/h Sec. , Block Ourrey 2 m nwof Gustine			1 1 1	
	Amy nw of Gustine	·		F-+-+-	+
	2. Owner: Chester Evans Address: Rt. 1	JUST-14	e		1
	Tenent: Address:				
	Driller: Willingham & Hilliard Address Gus	7	7		
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	3. Elevation of	7TY	2	_ن_ل_ن_	
	h. Drilled: 19 55, Dug Cable Tool Hotory,		CASTING & HEAV	MARK	
	5. Dapth: Rept. (60 ft. Meas. ft.	Cemented)		to ft.	
	6. Completion: Open Hole, Straight Wall Underreamed, Gravel Packed	Diam.	Туре	Setting, ft.	
		(in.)		from to	-
	7. Plant Migr.		~ T	- 0	
	No. Stages Bowle Diem. in., Setting 150 st. 1905	5	OD	SUL	
	Column Diam. in., Length Tailpipe ft.				1
	B. Motor: Fuel e /= c / Make & Model NP. 3	l. 6			1
	20 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -				-
	8. Motor: Fuel @ de c 4 Nake & Model RP. 3 9. Yield: Flow gpm, Pump 85 pm (Ream) Rept. Ret. 8 1 1	1			1
	10. Performance Tests Date Length of Test Made by			TAREAS	1
	Static Lavelft. Pumping Lavelft. Drawlownft.				
	Production gpm Specific Capacity gpm/ft.	1			
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	30 V Tr. mens A Apr. 1900 above M. T. Dec 0 - Lig J Se	e rema	of which to J	n. Chow murface	i.
	35.43 r. 1994 3 5 196 above 11	e remai		OO n. Cabove murface	9
		e_rema	ric which is 1	/ rt. above surfece	9 8
	76. Tept. 19 600ve	e rema	which is	/ ft. and surface ft. above surface below surface	9 8
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Typewrite (Black ribbon) or Print Plainiv (soft pendi or black ink)-TWDB USE ONLY Do not use ball point pen 425 Texas State Department of Health Laboratories 1100 West 49th Street Program No. Austin, Texas 78756 Proj. No. **CHEMICAL WATER ANALYSIS REPORT** Send report to: Ground Water Data and Protection Division Texas Water Development Board P.O. Box 13087 Austin, Texas 78711 Date Collected BY RL. NORDSTRU Location 2 MI NORTH-WEST OF GUSTINE Source (type of well) Elec - Subm. Owner Chester Evans Date Drilled 1955 Depth ___ __ ft. WBF ___ Producing intervals 120-155 Water level 30-51 Sampled after pumping Point of collection Appearance clear D turbid D colored D other IRR. (FOR LABORATORY USE ONLY) KEY PUNCHED CHEMICAL ANALYSIS 238026 Date Received 29 Date Reported 001. 2 5. 19 3.2 Laboratory No.__ ME/L Silica Carbonate 204 Bicarbonat Celclum Sulfate Sodium Chloride ■ Potassium = ■ Manganesa Tota □ Boron / Dissolved Solids (sum in MG/L) -3/D Total Iron Phenolphthalein Alkalinity as C aCO3. MG/L Total Alkalinity as C aCO3 (.4.78) (other) Total Hardness as C sCO3 (. 1.5. 84) Specific Conductance (micromhos/cm³) 190 Diluted Conductance (micromhos/cm3) 2548 " \square " items will be analyzed if checked. Nitrite - N · J The bicerbonate reported in this analysis is converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate, and the carbonate figure is used in the computation of this sum. Nitrate - N 3 Nitrogen cycle requires separate sample. Organic Nitrogen 3/ Total Iron requires separate sample.

Analyst -

TWD88-51-27

Checked By

OLD WELL NUMBER

TEXAS DEPARTMENT OF WATER RESOURCES-WATER L. JEL MEASUREMENTS IN FT.)

Site

AS OF 05-01-84

COORDINATES 098-26-409

☑ Normal D Publ.

□ USGS

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36.69	+3.00	01	1		В	
37.20	3100	01	1		6	
36.11	300	01			B	
35.77	3.00	1	1		3	
35.08	3,00	1	1		B	
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AQUIFER 312 - THIN MOUNTAINS FORMATION

WATERSHED 12 - BRAZOS RIVER BASIN

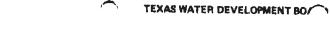
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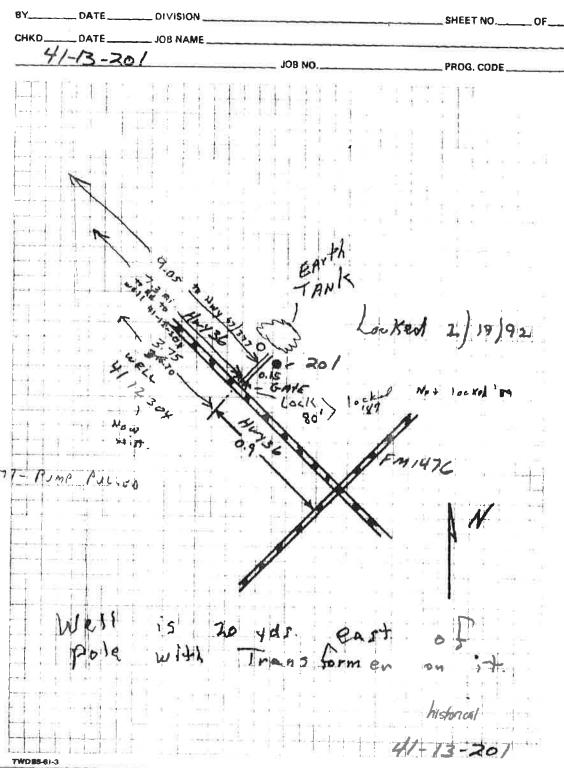
COUNTY DA7 - COMANCHE

CURRENT 41-13-201

TDWR-0518

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	Owner's Well No.	County			
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2. OHESTER EVA	272			. h = + =	+-+-1
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	Due Geols Tool Rotary,	f	CASING & MAI	K PIPK	
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TEXAS DEPARTMENT OF WATER RESOURCES-WATER LLVEL MEASUREMENTS(IN F1.)

AS OF 05-01-84

Normal

OLD WELL NUMBER

31-51-08N COORDINATES 098-26-40W

□ Publ. □ USGS

YR. REC. BEGINS

LAST CHEMICAL ANALYSIS

CT	ATE	MELL AU	65	1 17 001	_		1 0/12/11/0/12		_	C	19-	
DE	PTH	OF WELL	160	1-13-201		C	AND SURFACE	DATUI ITERVA	IL O	EVA	TION	1210.00 155
MEA	DATE CURR ASUR	EMENT	CURRENT DEPTH TO WATER PROM LSD	CHANGE IN LEVEL BINCE THE LAST MEASUREMENT	Messurement Number	OEPTH TO WATER FROM MP	MP		Messurement	_	WELL USE	FIELD OBSERVATIONS
07	02	65	33.79			35.52	+1.73	01	1		4	
04	114	166	32.89	+0.90		35.89	+3.00	01	1		4	
03	15	67	32.43	+0.46		35.43	+3.00	01	1		4	
04	02	69	30.87	+1.56		33.87	+3.00	01	1		4	
03	17	70	30.51	+0.36		33.51	+3.00	01	1		4	
03	18	71	30.75	-0 - 24		33.75	•3.00	01	1		4	
03	08	72	31.56	-0.81		34.56	+3.00	01	1	03	4	
02	28	73	33.39	-1.83		36.39	+3.00	01	1		4	
3	13	174	33.74	-0.35		36.74	+3.00	01	1	03	4	
34	14	75	33.14	+0.60		36.14	+3.00	01	1		4	
3	15	76	33.43	-0.29		36.43	+3.00	01	1		4	
3	15	76	33.43	+0+00		36.43	+3.00	01	1		4	
3	18	77	33.39	+0.04		36.39	+3.00	01	1		В	
3	21	78	32.90	+0.49		35.90	+3.00	01	1		В	
4	05	79	33.85	-0.95		36.85	+3.00	01	1		8	
3	20	80					+3.00	01		31	В	
4	07	81	33.54		_	36.54	+3,00	01	1		В	
3	24	82					+3.00	01		40	В	
1					+			\vdash	+	-		
Т									1		+	

AGUIFER 312 - THIN HOUNTAINS FORMATION

WATERSHED 12 - BRAZOS RIVER BASIN

COUNTY 047 - COMANCHE

TDWR-0618

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
13	2 of 2	NNW	0.28 / 1,498,78	Chester Evans	GWDB
		TX	TX		
Well Rep Tra	ack No:				
State Well N	o:	4113202			
Owner Name	e:	Chester Evans			
Drilling Start	t Dt:				
Drilling Mon	th:	3			
Drilling Day:	•				
Drilling Year	: :	1967			
Well Depth:		155			
Well Usage:		Irrigation			
Water Level	Status:				
Latitude:		31.8530560			
Longitude:		-98.4452780			
Data Source	:	Groundwater Da	atabase (GWDE	Reports; GIS shapefile of GWDB well locations	
Well Info Re _l		https://www3.tw	db.texas.gov/ap	ps/waterdatainteractive//GetReports.aspx?Num=4113202&	Type=GWDB
Document L	ink:	https://www3.tw	db.texas.gov/ap	ps/waterdatainteractive//GetScannedImage.aspx?Num=41	13202&Cnty=Comand

	\sim			
p-norm	31			CW 1
TEXAS WATER DEVELOPMENT B	OARD	73	/	7
		L		
WELL OCHEDULE				
1	593			
Aquifer HOSTON Pisld No. 17 2		Comanc		
1. Location: 1/4, 1/4 Sec. , Block Survey				
2 mil W. Gustine Im West of FM 1476			+	
2. Owner: Chester Evans Address:				
Driller F Elmer Petitt(stitt Klot 11) 100000	sustine			
3. Elevation of LSD is 12 0 ft. above mal, determined	by Topo			
4. Drilled: March 1967, Dug, Cable Tool, Rotary,		Avenue	PIPE	
5. Depth: Rept. 155 ft. Hean. ft.	Cemented		to	n.
6. Completion: Open Hole, Streight Wall, Underressed Grevel Packed	Diam.	Туре	Settin	
	(in.)		from	to
7. Pumpi Migr. Type Submersible No. Stages , Bould Dies. in., Setting 150 ft.	6	Steel		155
Column Diamin., Length Teilpipeft.				7-2
outsit of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control				
8. Rotor: Fuel Electric Make & Model HP. 3 9. Yield: Flow gpm, Pump 2/ gpm, Hean, Rept., Est. [7]				
				ALL MANAGEMENT
10. Performance Tests Date Length of fast Made by				
Static Levelft. Pumping Levelft. Drawdownft.		1		
Productiongpm Specific Capacitygpm/ft.				
11. Water Level: 15, rept. 19 shows below		which is	rt. ab	ausface.
rt, rept. 19 above		which is	es abs	LOW .
rept. 19 above				rom.
				CTM
rept. rept. 19 shore below		which ie	ლ. bel	surface.
12. Use: Dom., Stock, Public Supply, Ind., (Irr.), Waterflooding, Observation, Nor Used,				
13. Quality: (Remarks on taste, odor, color, etc.)				
Temp. 'F, Date sampled for analysis Leboratory		COTT AND	917	
Temp. '7, Date sampled for analysis Laboratory		en Openings	68	
Temp. *F, Date sampled for analysis Laboratory	Dism. (in.)	Туре	Setting from	t. It.
14. Other data available as circled: Driller's Log, Redicectivity Log, Electric Log,				
Formation Simples, Pumping Test, PFY Test	l (Slotted	130	155
15. Record by: R. D. Perkins Date 9-5 1968		1019111011		
Source of Data OW NET				
16, Remarks:				
272				

See 41-13-201 (Sketch)

41-13-202

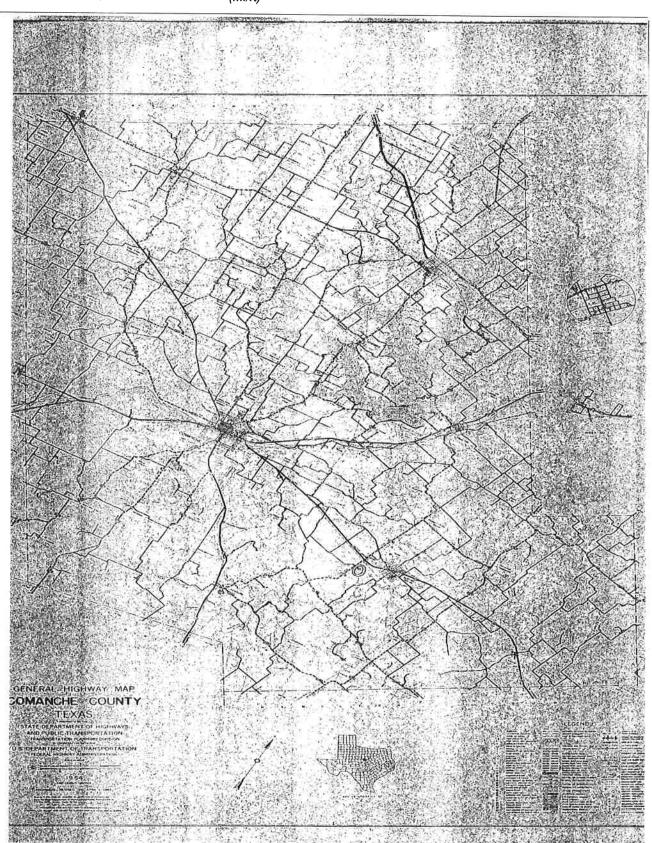
Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
14	1 of 1	ssw	0.33 / 1,721.78	Billy Bell	SDRW WELLS
			1,121.70	TX	
Track NO:		27911			
Date Submit Owner Name		2003-11-06			
Owner Name		Billy Bell	Dalina		
Owner Addr		1328 Brookside	Drive		
Owner City:	essz.	Hurst			
Owner State		TX			
Owner Zip:	•	76053			
County:		Comanche			
Type of Wor	k:	New Well			
Typ of Wrk (***************************************			
Proposed Us		Domestic			
Prop Use Ot	h Descr:				
Latitude:		31.834167			
Longitude:		-98,444445			
Drilling Date		2003-09-25			
Drilling Date		2003-09-25			
Chemical An		No			
Company Na		Harris Drilling C	company, Inc.		
Company Ad		Route 3			
CompanyAd		0			
Company Ci Company St		Comanche			
Company Zi		TX 76442			
Company Co		70442			
Data Source		Full SDR Datab	aco: SDDDD Ma	ll Location (Map)	
Report Link:		https://www3.tw	db.texas.gov/ap	os/waterdatainteractive/GetReports.aspx?N	Num=27911&Type=SDR-Well
Well Boreho	le Information				
Top Depth:		0			
Bottom Dept	h:	131			
Top Depth: Bottom Dept	h:	131.0			
Well Levels					
Measuremen Measuremen		110 2003-09-25			

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
15	1 of 1	SSE	0.38 / 1,992.58	W L MCFARLAND	TCEQ
			1,332.30	ΤX	WELL LOGS
Grid No:		41-13-2			
Date Drilled	:	04/24/1987			
Owners Nar	ne:	W L MCFARL	AND		
County:		COMANCHE			
Water Usag	e:	DOMESTIC			
Static Level	:	44			
Depth Drille	d:	160			
Latitude:					
Longtiude:					

Site

Send original copy certified mail to the Texas Department P. O. Box 13087 Austin, Texas 787	of Water Resources			State ATER W ER: Confiden	ELL	REP	ORT e Notice on Rev	erso Sido	P. O. Box		rillers Board 1
1) OWNER W.	1. NCf	AHLAN	4	_ Address	R	T.,	2	Come	ache	Tex	7644
County C	in ruch	1/2		_ miles in _				ction from			(Zip)
Danie		Agricio de oderno de grano		☐ Legal des							
with distance and a tion or survey lines well on an official	ete the legal descrip firection from two le , or he must locate Quarter- or Half-Soz fap and attach the r	ntersecting sec-		Abstraci Distance	t No.	directio	Surv	o Town ey Name rsecting section or su			
3) TYPE OF WOR	V ICharlia	T.,		See attack	and mu	ъ. Т					
New Well	Doopening	4) PROPOSE		ck): 8l □ Public S		- 1		METHOD (Check):			
Reconditionin				Bl □ Public S Il □ Other _			Mud Rotar	Y Air Hammer Cable Tool	□ Driven □ Jensed	C Other	
6) WELL LOG:			ETER OF He From (ft.)	OLE To (It.)			HOLE COMPLE	TION:			
Date drilled	4.24.87	77/8	Surface	160'		Grav	zel Packed	Straight Wall Other		Underre	
From To		Description and	calar of for	mation	-						70
[ft.] (ft	.)	m	aterial		(8)	T		E, AND WELL SCRE	EN DAT	A.:	
01/	10.00				Dia.	New	Steel, Plast Perf., Stott	ed. etc.	_	etting (ft.)	Gag Casi
110	39.6	A-Y			5	Used	_	f., if commercial	Fro		o Scre
10 72		8450 m			2	pec	PLAS		60	- 7	
22 30									/30	/6	0 77
30 47	BL. SA	ed -									
47 5	1/1	2			(5)						
52 Ge		pd- wat	TAI		9)	CEME	NTING DATA	[Rule 319.44(b)]	n 9 =	,	
60 67	136.51	<i>L</i>			-	Cernen	ted from	ft. to	15		ft.
88 9	1219	Lay 1			4		-	ft. to			ft,
97/10-	1111	18 W/K	ed CLA	7 37/63	-		ted by				
107 700		HAYA				Contion	Teo by				
109 120		- SUFT			101	SUBF	ACE COMPLET	ION			
120 122	77	HALL						ab Installed (Rule 3	9.44(c)]		
122 130		<i>'</i> . <i>'</i>						d [Rule 319.44(d)]			
130 /39	SONS	Grave -	WATER	0		□ Apı	proved Alternati	ve Procedure Used (F	Rule 319.	71)	
[35 137		<i>y</i>			11)	WATE	R LEVEL:				
13 4 145	31.47 4	CTAURC	WATE	26	1	P	144	f1. below lend		Date 4	-24.5
MY 140			2.1			Are	esian (low	f1. below land			
150 160	10011	1, BL S	2/1,		101		2011			Date	
150 /60	D. C. S.	4			12)	PACK	EHS:	Туре		Depth	
			15 00								
			CLEC		1		PUMP;				
			****	2 9 87	100] Turb		t 🗀 Submersi	ble	Cyline	der
	(Use reverse si	de if necessary)	MAT	2 9 67	1 4	Othe					
5) WATER QUA		(Texas Wat	er Commissi	nd C	Septh t	o pump bowls, c	ylinder, jet, etc.,			_ft.
	ingly penetrate any	strata which con	ta Merunda	Siratsin-	14)	WELL	L TESTS:				
water?	"REPORT OF UND						Test: Pu	mp D Beiler	☐ Jette	4 De	timated
Type of water	·	Depth of stre				Yield	1 ~			rn after	
Was a chemica	l analysis made?	□ Yes □	No.		1						
I here by knowledg	certify than this well e and belief. I unde	I was drilled by r erstand that failu	me (or under re to comple	my supervisional thr	un) en u 12 v	d that e	rach and all of th	ne statements herein leing returned for cor	ara true to mpletion i	the best o	f my Ittal.
COMPANY NAME	Marwort	6 Drugt	woces	AV Water W	/ell Dr	iller's L	icense No	2192			
ADDRESS _ Po.	POX 1/2			om a	ch	م		TEXAS		764	42
Signad) //	0050	mi	6					(State)		(210)	
Signed)	(Liverpoor V	Vater Well Driller	1	{{Sign	ed)		Registered Drill	er Trainma' -			4-13-2
			ertinent info							HER DOIL	

Site

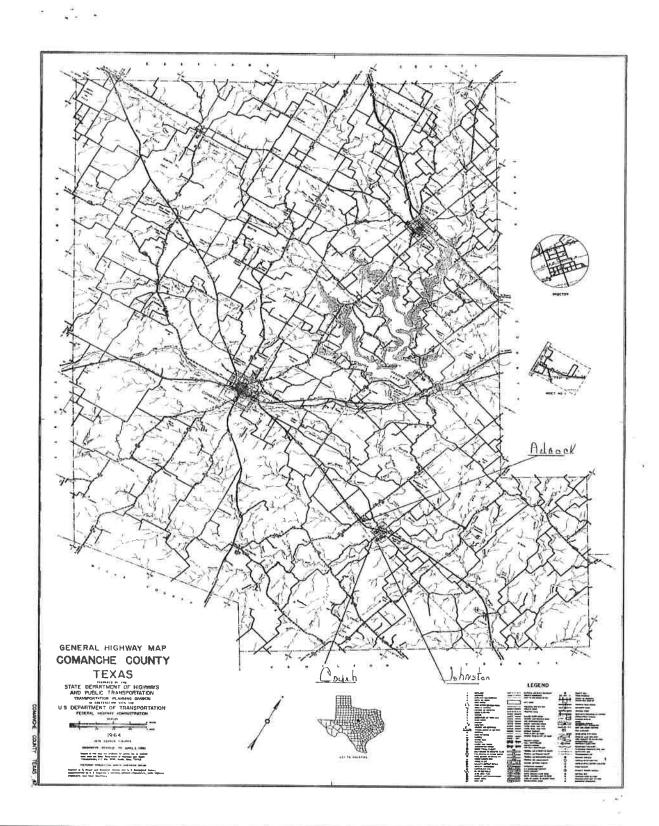


Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
16	1 of 1	_	0.40 / 2,121.47	FLOYD ADCOCK	TCEQ
			2,121.47	TX	WELL LOGS
Grid No:		41-13-2			
Date Drilled	:	12/07/1986			
Owners Nar	ne:	FLOYD ADCC	CK		
County:		COMANCHE			
Water Usag	e:	DOMESTIC			
Static Level	:	50			
Depth Drille	d:	110			
Latitude: Longtiude:					

M (4)		7 ~	10	IEL	4		
Please was black ink. Send original copy by certified mail to the Texas Water Commission P.O. 80x 13087 Austin, Texas 78711	State WATER W ATTENTION OWNER: Confiden	of T ELL Mality	exas REP Privileg	ORT		Texes Water Well Drillers P. O. Box 13087 Austin, Texas 78717	: Board
1) OWNER Floyd Adc	ock	. E	.0.	Box 5	33, Gustine,	Texas 76455	
	(ivalile)	(8)	reat or	RFD)	(CH)	() (State) (2	ip)
2) LOCATION OF WELL:	he 1.5 miles in	W			_ direction fromG	ustine	
		(N E		, etc.)		(Tawn)	
Oriller must complete the legal described distance and direction from two tion or survey lines, or he must focal well on an official Quarter, or Half-S General Highway Map and attach the	o intersecting sec- te and identify the Abstra icale Texas County	No			ock NoTov	writing	
		hed ma	p. 0	n 41	-/3-3		
3) TYPE OF WORK (Check): Deepening	4) PROPOSED USE (Check):				5) DRILLING METHO	_	Driven
☐ Reconditioning ☐ Plugging	Gomestic Industrial Monitor			γlγ		Air Hammer	Bored
6) WELL LOG:	DIAMETER OF HOLE					able Tool Other	
	Dis. (in.) From (ft.) To (ft.)			n Hole o Hole	MPLETION:	☐ Underreamed	
Date Orilling 12/3/86 19 Started 12/4/86 Completed 12/4/86	7-7/8 Surface 110			el Pecked	Other	U Onderreamed	
Completed	-	_	If G	ravel Pack	ed give interval from .	7.5(1. to110	11.
From To	Description and color of formation	1					
(rc) (r _c)	material	81	T	IG, BLAN	K PIPE, AND WELL SCR	EEN DATA:	
0 17 top soi 17 24 gravel	land sand	Dia.	New	Stee	l, Plastic, etc. , Slotted, etc. an Mgf., if commarcial	Setting (ft.)	Gage Casing
24 30 red bed		-	Used			From To	Screen
	one (hard)	45	N		O Bay PVC	90 110	1.77
52 88 red bed 88 91 sandy si	/ sandy	1.1	+	BAUG	ced casing	70 110	1/8
91 97 sand/sm	all gravel			310, 3141			
	andstone lue shale						
107 IIO yellow/	purple shale	-	Metho	ted from	tt. to 14 ft. to 14 poured driller	ft. No. of Sacks Used_ ft. No. of Sacks Used_	4
			□ Spe □ Piti □ Api	cified Sur	MPLETION face Slab Installed (Rule ; er Used (Rule 319,44(d)) ternative Procedure Used		
		-	Sta	lic level	50 1t. below land	surface Date 12/4	/86
					gpm.	Date	
151	E G E I V E I I I	12)	PACK	ERS:	түре	Depth	
UU_			2_s	hale	catcher	1.4	
	MAR - 5 1987 S WATER COMMISSIO* a side if necessary!		druT C entO C	·	☐ Jet ☐ Submers		
15) WATER QUALITY:		٦ '	Pepih t	o pump b	owls, cylinder, jet, etc.,		
Did you knowingly penetrate ar water?	14)	Туре	TESTS:	□ Pump □ Baller	#□ Jetted □ Estimat		
knowledge and ballet, I un	vell was drilled by me (or under my supervisiderstand that failure to complete items 1 th	iru 12 w	All resu	it in the I	og(s) being returned for co	n are true to the best of my empletion and resubmittel.	
COMPANY NAME DAILOR I	Orilling & Service Water	Well Dri	ller's L	icense Na	860		
	08, Hamilton, Texas 7	6531				file)	
(Signed) De Calal	· ·	ned)	Om.	20	Olutricen Traines)	Mon	
	talysis, and other pertinent information, if a			r. vo. vo.a	V	vell No. 19 only 3	2

TWC-0392 (Rev. 06-10-05)

WELL OWNER'S COPY



Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
17	1 of 1	SSE	0.40 / 2,126.14	Gail Steward FM 1476 Gustine TX 76455	SDRW WELLS
Track NO:		144841			
Date Submit	ted:	2008-06-22			
Owner Name	e:	Gail Steward			
Owner Addr	ess:	200 Shoshone			
Owner Addr	ess2:				
Owner City:		Comanche			
Owner State	:	TX			
Owner Zip:		76442			
County:		Comanche			
Type of Wor		New Well			
Typ of Wrk (
Proposed Us		Stock			
Prop Use Ot	h Descr:	0.4.00.4.00			
Latitude:		31.831389			
Longitude:	Ctout-d.	-98.436111			
Drilling Date		2008-05-16			
Drilling Date Chemical Ar		2008-05-16			
Company Na		No Harris Drilling Co	mananu Ina		
Company Ac		7651 Hwy 67-37			
Company Ad		1001 Hwy 01-31	,		
Company Ci		Comanche			
Company St		TX			
Company Zi		76442			
Company Co		70112			
Data Source		Full SDR Databa	ise: SDRDB We	ell Location (Map)	
Report Link:		https://www3.two	lb.texas.gov/ap	ps/waterdatainteractive/GetReports.aspx?Num=14484	11&Type=SDR-Well
Well Boreho	le Information				
Top Depth:		0			
Bottom Dept	h.	151			
Bottom Dept	11.	131			
Top Depth: Bottom Dept	h:	151.0			
Well Levels	ŧ				
Measuremen		64			
Measuremen		64 2008-05-16			
54541 0111611	· Duto.	2000-00-10			

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
18	1 of 1	ENE	0.45 / 2,354.46	David Teich Hwy 36 and FM 1476 (SE corner) Gustine TX 76455	SDRW WELLS
Track NO:		33966			
Date Submit	ted:	2004-03-11			
Owner Name	e:	David Teich			
Owner Addr		P O Box 133			
Owner Addr	ess2:				
Owner City:		Gustine			
Owner State	:	TX			
Owner Zip:		76455			
County:		Comanche			
Type of Wor		New Well			
Typ of Wrk (
Proposed Us		Stock			
Prop Use Ot	h Descr:				
Latitude:		31.848611			
Longitude:	044	-98,428055			
Drilling Date		2004-02-19			
Drilling Date Chemical Ar		2004-02-20			
Company Na		No			
		Dalton Drilling 8	& Service		
Company Ad		P O Box 208			
Company Ci		Hamilton			
Company St		Hamilton TX			
Company Zi		76531			
Company Co		70001			
Data Source		Full SDP Datab	and SDDDD MA	ell Location (Map)	
Report Link:		https://www3.tw	db.texas.gov/ap	ps/waterdatainteractive/GetReports.aspx?Num=33966&Ty	pe=SDR-Well
Well Boreho	le Information		29		
Ton Donth		0			
Top Depth:	ih.	0 125			
Bottom Dept	n;-	125			
Top Depth: Bottom Dept	h:	125.0			
Well Levels					
Measuremen	4.	65			
Measuremen Measuremen		2004-02-20			
measurellell	L Date.	2004-02-20			

TCEQ
WELL LOGS

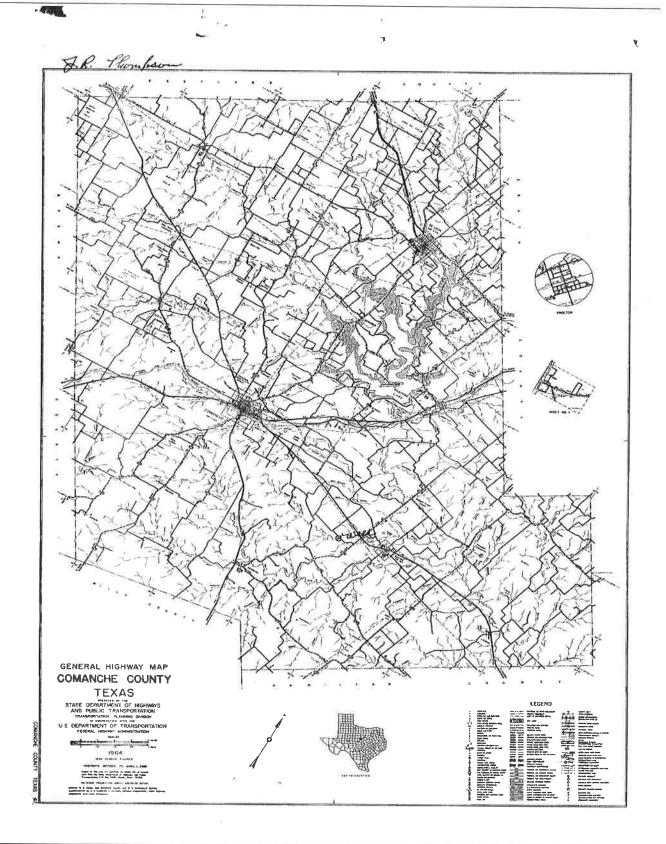
ATTENTION OWNER: Confidentiality Privilege Notice on reverse side of Well Owner's copy (pink)		of Texas REPORT	Texas Department of Licensing & Regulation P.O. Box 12167 Auslin, TX 78711 512-463-7880
1) OWNER ADE (ADDRESS OF WELL'S LOCATION: County COM ANGELS: 3) TYPE OF WORK (Check): New Well Despening	500	(City) (Slate) ComplyChe	
Reconditioning Plugging S) WELL LOG: Date Oriting: Started 5 - //Le 43/400 Completed 5 - 20 12/40		7) DRILLING METHOD (Chec	No No No No No No No No No No No No No N
0 15 15 35 Brown 36 60 SAW		8) Borehole Completion [Che-	of Packed Other III to IS 1.
190 140 Slig 141 160 Was	E INYERED ROCK 1 - WATER BEG PER: SANDGRAVEL DOWN Shale	Dis. New or Parl., Slotted, etc. Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig., if con Screan Mig.,	Casting
(Uso roverse side of Well Own 13) Well plugged within A8 hours asing left in well. To (f) From Male	ANA	Methodused Mix ed	nes or other concentrated contaminationfi.
14) TYPEPUMP: Turbino Jel Submers Other Depth to pump bowls, cylinder, jet, et		1.0) SURFACE COMPLETION Specified Surface Stab Instate Specified Steel Steeve Instate Priless Adapter Used Approved Alternative Proces	led
Type lost: Pump Hailer Yield Dipm with 20 6) WATER QUALITY: Did you knowingly popolrate any strata who constitutions?		Artesian flow	olowland surface Date
Yes No II yes, submit "RE	PORT OF UNDESIRABLE WATER - épholstrala	12) PACKERS:	Type Depths of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co
OMPANY NAME PAUTS	s drilled under my direct supervision) and logicily being returned for completion and PRILLING	d that each and all of the statements resubmittal. WELL DRILLER'S LICENSE N	o SoluPKI
(Street of Figure)	Well Driller)	(City) (Signed)	(Registered Driller Trainee)

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
19	2 of 2	NNE	0.45 / 2,402.36	jack nabors 7050 hwy 1476 TX	SDRW WELLS
Track NO:		122589			
Date Submit	ted:	2007-09-18			
Owner Name);	jack nabors			
Owner Addr	ess:	7050 hwy 1476			
Owner Addr	ess2:				
Owner City:		gustine			
Owner State	:	TX			
Owner Zip:		76445			
County:		Comanche			
Type of World		New Well			
Typ of Wrk C					
Proposed Us		Domestic			
Prop Use Oti	h Descr:	04.054405			
Latitude:		31.854167			
Longitude:	Stantad:	-98,4325			
Drilling Date Drilling Date		2007-08-05 2007-08-05			
Chemical An		No			
Company Na		f & f drilling			
Company Ac		301 hwy 2921			
CompanyAd		301 HWY 2321			
Company Cit	hr	deleon			
Company Sta		TX			
Company Zip		76444			
Company Co		10111			
Data Source		Full SDR Databa	ise: SDRDB We	ell Location (Map)	
Report Link:		https://www3.two	lb.texas.gov/ap	ps/waterdatainteractive/GetReports.aspx?Num=12	22589&Type=SDR-Well
Well Borehol	le Information				
Top Depth:		0			
Bottom Dept	h+:	150			
Dottom Dept		130			
Top Depth: Bottom Dept	h:	150.0			
Well Levels					
Measuremen Measuremen		78 2007-08-05			

Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
20	1 of 1	sw	0.48 /	J R THOMPSON	TOTO
			2,508.88		TCEQ
				TX	WELL LOGS
Grid No:		41-13-2S			
Date Drilled	:	09/13/1980			
Owners Nar		J R THOMPS	ON		
County:		COMANCHE	214		
Water Usag	e:	DOMESTIC			
Static Level		125			
Depth Drille		139			
Latitude:					
Lonatiude:					

Site

- M								*:		
Send original copy by contified mail to the Toxes Department of	f Water Basoures	as.	•	Sta WATER	ate of 7					29
P. O. Box 13087 Austin, Texas 78711	1	ATTENTIC						n Reverse Side	Received: C.C.	3
	. R. Thomps					_			Preceived.	
	10	Name)		Addre	/SS	Street	ustine, Te	exas (City	(State) (Z	Zip)
2) LOCATION OF Y	manche			miles i				irection from	to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	.197
					- IN	E , S.V	N., etc.)	rection from	(Town)	
Driller must complete	- the transference	The second second second	no	□ Lege	al description	on:				
tion or survey lines of	rection from two i	intersecting sec-					8lock		wnship	
well on an official Ou General Highway Map	unvier- or Half-Sca	ale Tayne County	WALL						survey lines	
(F 200)		Map to the	n.	100000			Off troin sere	tersecting section or a	Bush lines	
3) TYPE OF WORK	· con	T., 520005			attached m	inp.				
Dovew Well	C (Check): ☐ Deepening	4) PROPOSE	ED USE (Ch ic 🗀 Industr		- Count	Y		NG METHOD (Check)	* *	
Reconditioning	☐ Plunging		n 🗆 Test W			′ '		ary Cable Tool	☐ Driven ☐ Bored ☐ Jested ☐ Other	
6) WELL LOG:		DIAM	METER OF I			POF	EHOLE COMPL		[] Jeited [] Other	
		Dla (in.)	From (ft.)	To (fi	1.1		san Hole REHOLE COMPL	LETION: Distraight Wall	☐ Underreamed	_
Description Q	1/12/20	6 3 //	Surface	120		⊈ Gri	ravet Packed	Other		
Date drilled9	/13/80	6 3/4	0	139	-	If C	Gravel Packed gi	ive interval from .	0ft. to139	2 ft.
From To		Description and	id color of fe	ormation	9	CAS	INC BLANK P	IPE, AND WELL SCR		
(ft.) (ft.)	Sand		material			T.				
1 3	Red Clay				Dia (in.		Perf., Slo	astic, etc. otted, etc.	Setting (ft.)	Gage Casing
3 10	Loose Roc	ck & Sand		-				MgL, if commercial	From To	Screen
10 14 14 23	Grey Clay	y & Yellow k,Yellow S.	/ Sand	- Kon	- 1	L new	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		0 139	. 200
23 24	Sand			s)c		+	pertota	ated 7/32	51 61 119 139	.200
24 40	Sand Rock	k,Yellow C	lay						100	
40 51 51 55	Blue Shal	le & Red B ly Shale &	Bed							1
55 56	Water Sand		red be)a		-				
56 57	Rock					_				
57 92 92 105	Red Bed & Grey Shal	& Blue Sha	lo-		_					1
105 115		k Blue Sha	le			Come	nted from	10	30	20.
115 125	Sand						od used			——It.
125 136 136 139	Sand Rock Yellow Sh	c,Sand,Gra	vel & W	later			nted by Ha	arris Drilling		
130 137	TOTTOM OF	VTe			- 1.		TER LEVEL;	(Company	r or Individual)	CENTR.
									0/12/6	••
							ic level	ft. below land surf		0
						Artes	ian flow	gpm.	Date	
		RECEIVE	ED		10) PAC	CKEAS:	Type	Depth	
		JUL 20	1982							
						_				
		ערכאט	70							
					71	TYP	E PUMP;			
						□ Turt		Jet 🔲 Submers	sible 🗆 Cylinder	
	(Use reverse s	side if necessary)				Oth				
13) WATER QUALIT		OF IT TOO SECTION	12			Depth	to pump bowls,	s, cylinder, jet, etc.,	ft.	
Did you knowing	gly penetrate any	strata which co	antained und	desirable	12	1 WEI	LL TESTS:			
vvator? 🔲 Yes								Pump 🗀 Bailer	☐ Jetted	*0¢
Type of water?		Depth of stra	rata			4		,	ft. drawdown afterh	
Was a chemical an	onlysis mader		O No							
		I hereby certife each and all of	ly that this v	well was dr ents herein	illed by m	e (ar u	inder my supervi	vision) and that riedge and belief		
THE DATE			•••							
	Type or			Water v	Nett Dritte	rs Regi	istration No	327		
ADDRESS	(Street or RFD)		t. 3,	Com	anche,	T	exas	76442 (State)	(Zip)	
(Signed)	Mapl	بعدده				arri	e Drilling	g Co.		
Please attach electric lo	iog, chemical anal	(Well Driver, lysis, and other)	pertinent inf	formation,	. if availab!	le.		(Company Nam-	(0)	



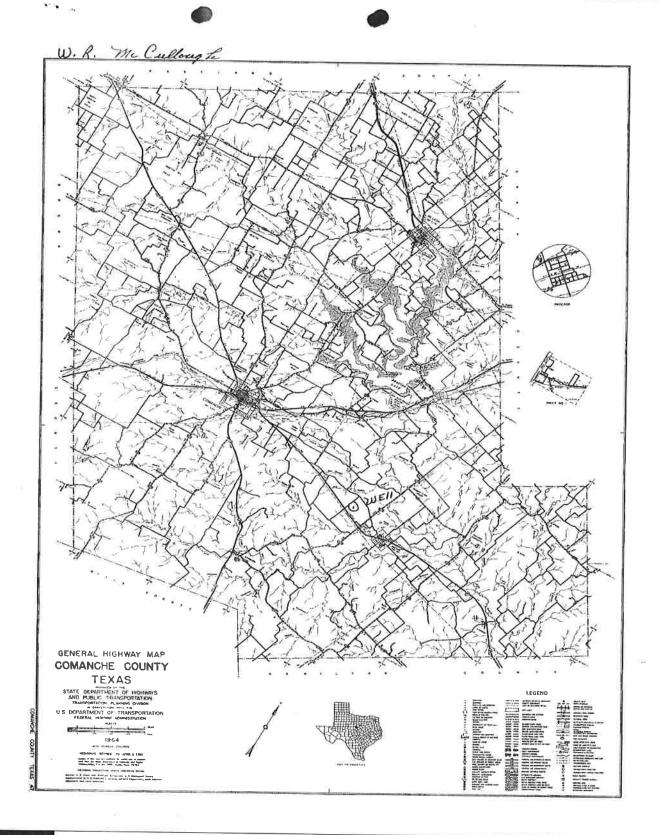
Мар Кеу	Number of Records	Direction	Distance (mi/ft)	Site	DB
21	1 of 1	sw	0.48 / 2,532.32	Jarrel Hurst CR 232 Gustine TX 76455	SDRW WELLS
Track NO:		143478			
Date Submit	ted:	2008-06-03			
Owner Name		Jarrel Hurst			
Owner Addr		CR232			
Owner Addr	ess2:				
Owner City:		Gustine			
Owner State	:	TX			
Owner Zip:		76455			
County:	de.	Comanche			
Type of Wor Typ of Wrk (New Well			
Proposed U		Irrigation			
Prop Use Of		inigation			
Latitude:	2000	31.836667			
Longitude:		-98.449722			
Drilling Date	Started:	2008-04-15			
Drilling Date	Completed:	2008-04-15			
Chemical Ar	nalysis:	No			
Company Na		Blue Sky Water	Well Drilling		
Company Ad		5751Weatherfo	rd Hwy		
CompanyAd					
Company Ci		Granbury			
Company St		TX			
Company Zi		76049			
Company Co Data Source		E-II ODD D 1 1			
Report Link:		https://www3.tw	ase; SDRDB We db.texas.gov/app	ell Location (Map) ps/waterdatainteractive/GetReports.asp	ox?Num=143478&Type=SDR-Well
Well Boreho	le Information				
Top Depth:		0			
Bottom Dept	h:	150			
Top Depth: Bottom Dept	h:	150.0			
Well Strata					
Water Type:					

good

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
22	1 of 1	s	0.49 / 2,568.75	Mike Thames comanche comanche TX	SDRW WELLS
Track NO: Date Submit Owner Name Owner Addr Owner Addr Owner City: Owner State Owner Zip: County: Type of Wor	e: ess: ess2: ::	522196 2019-09-23 Mike Thames P.O.Box 448 Comanche TX 76442 Comanche New Well			
Typ of Wrk (Proposed U. Prop Use Ot Latitude: Longitude: Drilling Date Chemical Ar Company Na Company Ac Company St Company St Company Co Data Source Report Link:	se: h Descr: Started: Completed: halysis: hame: ddress: ldress2: tty: hate: p: hountry:	31.83 -98.437139 2019-09-04 2019-09-04 No F&F Drilling P.O.Box 260 DeLeon TX 76444 Full SDR Databa https://www3.tw/	ase; SDRDB We db.texas.gov/app	ll Location (Map) os/waterdatainteractive/GetRepo	rts.aspx?Num=522196&Type=SDR-Well
Well Boreho	le Information				
Top Depth: Bottom Dept	th:	0 180			
Top Depth: Bottom Dept	th:	180,0			
Well Levels					
Measuremer Measuremer		120 2019-09-04			

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
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Grid No: Date Drilled: Owners Nan County: Water Usage Static Level: Depth Drilled Latitude: Longtiude:	ne: e:	41-13-2T 08/25/1981 W R MCCULL- COMANCHE DOMESTIC 45 84	OUGH		WEEL 2003

	e	Σ1						
Send original copy by certified mail to the Texas Department of Water Res P. O. Box 13087 Austin, Texas 78711			State ATER W : Confident	ELL	REP	ORT ege Notice on Reverse Side	Located on map Y	- 2-7 es e . 6 .
1) OWNER W. R.							Neceived	. 0 1
	(Name)		- Address -	(St	reet or	RFD) (Cit	v) (State) (Z(p)
county Comanche			_ miles in			direction from		5-5-0
				(NIE	., S.W.	, etc.)	(Town)	
Driller must complete the legal of with distance and direction from tion or survey lines; or he must well on an official Quarter- or H General Highway Map and attact	two intersecting sec ocate and identify the	ht :- ie ty m.	Abstrac	No t No t and d	irectio	Block No TooSurvey Name on from two intersecting section or s		
3) TYPE OF WORK (Check):			☐ See attac	hed ma	p.			
		ED USE (Che				5) DRILLING METHOD (Check)		
_		ic Industrie		υpply		☐ Mud Rotary ☐ Air Hammer		
☐ Reconditioning ☐ Pluggi 6) WELL LOG:		n 🗆 Test Wei			_	☐ Air Rotery ☐ Cable Tool	☐ Jetted ☐ Other	
b) WELL LOG:	Dia. (in.)	METER OF HO	To (ft.)			HOLE COMPLETION:		
		Surface				in Hole Straight Wall vel Packed COther	☐ Underreame	d
Date drilled 8/25/81	7 7/8	0	84] `		ravel Packed give interval from .		84 ,,
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From To (ft.) (ft.)	Description an	nd color of fore	mation	8)	CASIN	IG, BLANK PIPE, AND WELL SCH	IEEN DATA:	
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- VO#-8-II	CHA PARSON CONTRACT	order of the second		1	Turbi		ible Cylinder	
(Use rev	erse side i(necessory)			1	Othe	pump bowls, cylinder, jet, etc.,		
13) WATER QUALITY:				آا	- press 44	- pamp cows, cymaer, jer, etc.,		
Did you knowingly penetrati	any strata which co	ntained undes	irable	12)	WELL	TESTS:		
water? ☐ Yes ☐ N If yes, submit "REPORT OF		ATER"	3.		Туре	Test: Pump Bailer	☐ Jetted ■Estimat	ted
Type of water? Was a chemical analysis made	Depth of str	rata			Yield	1	t. drasvdown after h	
AAAS & CHEITHOSH RINGLYSIS MAGE	I hereby certif	k No ly that this we	ll was drilled	by me	(or un	der my supervision) and that		
CONTROL OF	each and all of	the statements	s herein are tr	ne to t	he bes	t of my knowledge and belief.		
NAME Billy Ha	pe or Print)			OriHers	Regist	tration No. 327		
ADDRESS	Rt. 3, Con	anche, T		6442	?			
Signed) Billy	Larria	,	(Cit		ris l	(State) Drilling Company, Inc	(Z(p)	
Planta attach alanteia las ster	Water Well Driller)					(Company Nam		
Please attach electric log, chemica	i elietysis, and other p	periinent infor	mation, if ava	illable.				
DWR-0392 (Rev. 1-12-79)	D	EPARTMEN	T OF WAT	ER RI	ESOU	RCES COPY		



Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update.

Federal

Wells from NWIS:

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This select NWIS Wells dataset contains specific Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well, Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern. Applicable NWIS database information is obtained through the Water Quality Data Portal (WQP). The WQP is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

Government Publication Date: Mar 11, 2024

<u>State</u>

Well Log Reports from Plotted Water Wells:

TCEQ WELL LOGS

Locations of TCEQ Water Wells as derived from well logs in the Texas Commission on Environmental Quality (TCEQ) Water Well Report Viewer, which includes unnumbered water wells and those plotted to 2.5 minute grid locations (2-3 miles). In this collection of Well Log Reports, locations have been

Government Publication Date: Jul 26, 2022

Select Wells from SDR:

Locations of wells from the Submitted Drillers Report (SDR) Database with select proposed usage: Domestic, Fracking Supply, Industrial, Irrigation, SDRW WELLS Other, Public Supply, Rig Supply, Stock, Unknown. SDR is populated from the online Texas Well Report Submission and Retrieval System (TWRSRS), a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application requiring registered water-well drillers to submit reports. Excludes SDR records with the following proposed usage: Closed-Loop Geothermal, De-watering, Environmental Soil Boring, Extraction, Injection, Monitor, Test Well.

Government Publication Date: Sep 24, 2024

Groundwater Database:

The Texas Water Development Board (TWDB) Groundwater Database (GWDB) contains information on selected water wells, springs, oil/gas tests (that were originally intended to be or were converted to water wells), water levels and water quality. Government Publication Date: Jan 13, 2025

Fort Bend Subsidence District Water Wells:

WW FORT BEND

List of water wells in the Fort Bend Subsidence District, boundaries of which are defined as all the territory within Fort Bend County. The Fort Bend Subsidence District was created by the Texas Legislature in 1989 as a conservation and reclamation district to control land subsidence and manage groundwater resources through regulation, conservation, and coordination with suppliers of alternative water sources to assure an adequate quantity and quality of water for the future. The District's purpose is to provide for the regulation of the withdrawal of groundwater within the District to prevent subsidence that contributes to flooding, inundation or overflow of areas within the District, including rising waters resulting from storms or hurricanes. Government Publication Date: Sep 23, 2024

High Plains Water Wells:

WW HIGH PLAINS

Order No: 25051200200

Inventory of water wells in the High Plains Underground Water Conservation District No. 1 (HPUWCD), which was created in 1951. As a political subdivision of Texas, HPUWCD is charged with protecting, preserving and conserving aquifers within the District's 16-county service area. Government Publication Date: Apr 14, 2024

Harris Galveston Subsidence District Water Wells:

WW HARRIS GAL

Order No: 25051200200

List of water wells in the Harris-Galveston Subsidence District (HGSD). The HGSD was created by the 64th Texas Legislature as an underground water conservation district in 1975 to provide regulation of groundwater withdrawal to control subsidence. Government Publication Date: Sep 23, 2024

Water Utility Database:

WUD

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health. Government Publication Date: Oct 1, 2020

Definitions

<u>Database Descriptions:</u> This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

<u>Distance:</u> The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

<u>Map Key:</u> The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

STATE OF TEXAS PLUGGING REPORT for Tracking #195610

Owner:

FRANK VOLLEMAN

Owner Well #: No Data

Address:

600 CR 252

Grid #:

41-13-2

GUSTINE, TX 76455

Latitude:

31° 50' 41.63" N

Well Location:

15550 HWY 36 **GUSTINE, TX 76455**

Longitude:

098° 26' 25.31" W

Well County:

Comanche

Elevation:

No Data

Well Type:

Withdrawal of Water

Drilling Information

Company: N/A

Date Drilled:

No Data

Driller:

UNKNOWN

License Number:

N/A

Borehole:

Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
6	0	17

Plugging Information

Date Plugged:

1/15/2020

Plugger: OWNER

Plug Method:

Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth,

cement top 2 feet

Casing Left in Well:

Plug(s)	Diament		167 11	
Pillarsi	Placed	ın	W/V/	

Dla (in.)	Top (ft.)	Bottom (ft.)
6	3	17

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
2	4	Cement 1 Bags/Sacks
4	17	Bentonite 4 Bags/Sacks

Certification Data:

The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information:

Landowner Plugged

600 CR 252

GUSTINE, TX 76455

Driller Name:

FRANK VOLLEMAN

License Number:

N/A

Comments:

DISINFECTED WELL WITH CHLORINE

STATE OF TEXAS PLUGGING REPORT for Tracking #195611

Owner:

FRANK VOLLEMAN

Owner Well #: No Data

Address:

600 CR 252

Comanche

Grid #:

41-13-2

GUSTINE, TX 76455

Latitude:

31° 50' 40.8" N

Well Location:

15550 HWY 36

Longitude:

098° 26' 21.99" W

Well County:

GUSTINE. TX 76455

Elevation:

No Data

Well Type:

Withdrawal of Water

Drilling Information

Company: N/A

Date Drilled:

No Data

Driller:

UNKNWON

License Number:

N/A

Borehole:

Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
6	0	77

Plugging Information

Date Plugged:

1/15/2020

Plugger: **OWNER**

Plug Method:

Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth,

cement top 2 feet

Casing Left in Well:

Plug(s) Placed in Well:

Dla (in.)	Top (ft.)	Bottom (ft.)	
6	3	77	

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
3	6	Cement 1 Bags/Sacks
6	77	Bentonite 20 Bags/Sacks

Certification Data:

The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information:

Landowner Plugged

600 CR 252

GUSTINE, TX 76455

Driller Name:

FRANK VOLLEMAN

License Number:

N/A

Comments:

DISINFECTED WELL WITH CHLORINE

T.F: GROUNDWATER TECHNICAL REPORT

T.F.1 Purpose

This section provides information on the geologic features and groundwater resources at the Volleman Dairy Processing Plant near Gustine, Texas.

T.F.2 Geologic Atlas Map

Figure T.F.1, Geologic Atlas Map, shows the geologic formations located at the property.

T.F.3 Geomorphologic/Geologic Features

The Windthorst-Duffau and Maloterre-Purves-Dugout soils in this area of Comanche County are immediately underlain by the Twin Mountains Formation and Quaternary Allivium as shown in Figure T.F.1. Allluvium consists of floodplain deposits, including low terrace deposits near floodplain level and bedrock locally in stream channels; gravel, sand, silt, clay and organic matter up to 35 feet thick.

The basal unit of the Trinity Group, the Twin Mountains, is a Lower Cretaceous sedimentary rock formation located across central Texas, including Comanche County. The Twin Mountains Formation upper part claystone, middle part sandstone above claystone, lower part mostly sandstone, some claystone and conglomerate. Sandstone, fine-to medium-grained in middle part, medium-to course-grained in lower part, sorting best in middle part, friable, locally large-scale crossbedding, mostly light gray, some light brown near middle. Claystone, silty, mostly gray, locally in upper part green, yellow, red. Thickness about 150 feet. Lies below Glen Rose Formation and unconformably on Pennsylvanian rocks. Age is Eary Cretaceous. (USGS National Geologic Map Database)

T.F.4 Aquifer Information

The Trinity Aquifer consists of early Cretaceous age formations of the Trinity Group where they occur in a band extending through the central part of the state in all or parts of 55 counties, from the Red River in North Texas to the Hill Country of South-Central Texas.

Formations comprising the Trinity Group are (from youngest to oldest) the Paluxy, Glen Rose, and Twin Mountains-Travis Peak. Updip, where the Glen Rose thins or is missing, the Paluxy and Twin Mountains coalesce to form the Antlers Formation. The Antlers consists of up to 900 feet of sand and gravel, with clay beds in the middle section. Water from the Antlers is mainly used for irrigation in the outcrop area of North and Central Texas (Ashworth and Hopkins, 1995).

The aquifer is underlain and confined by low-permeability rocks that range in age from Precambrian to Jurassic. Where the aquifer does not crop out, it is confined above by the Walnut Formation in most of the area.

Recharge to the Trinity aquifer is generally as precipitation that falls on aquifer outcrop areas and as seepage from streams and ponds where the head gradient is downward. In the Hill County, water might flow laterally into the Trinity aquifer from the adjacent Edwards-Trinity aquifer. The aquifer discharges by evapotranspiration, spring discharge, diffuse lateral or upward leakage into shallow aquifers, and withdrawals from wells.

T.F.5 Local Groundwater Information

The 2024 groundwater levels in the surrounding area, as the Texas Water Development Board reported, are attached. The Retention Control Structure (RCS) at Volleman Dairy Processing Plant features a clay liner that has been certified by a licensed professional engineer in Texas. Treated effluent will be applied to the Waste Disposal Areas (WDAs) at agronomic rates, ensuring proper management. Volleman Dairy Processing Plant does not anticipate any negative impact on local groundwater due to these activities.

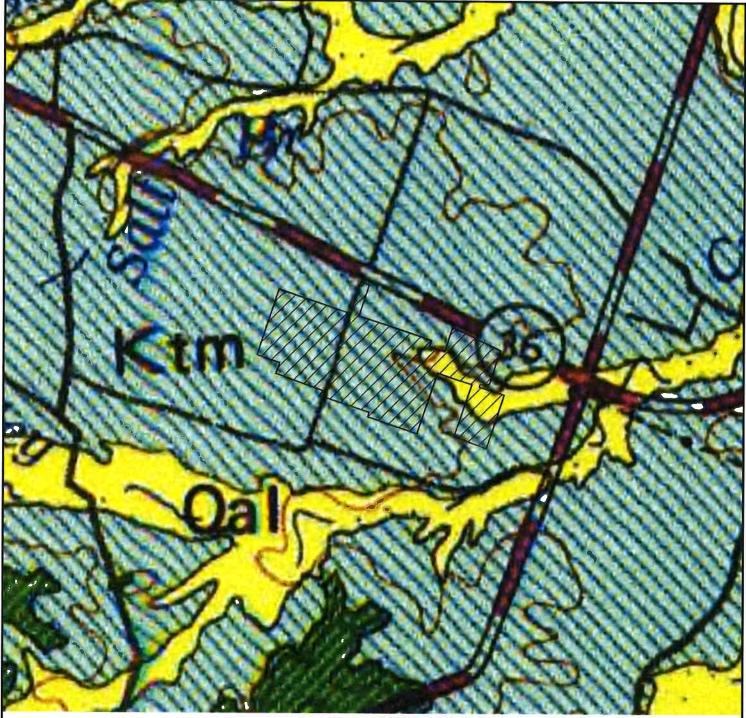
T.F.6 References

Ashworth and Hopkins, November 1995. Aquifers of Texas. Report 345, Texas Water Development Board.

Bureau of Economic Geology, The University of Texas at Austin, Geologic Atlas of Texas – Brownwood Sheet, 1976.

Texas Water Development Board, Water Data for Texas. Retrieved May 21, 2025. https://waterdatafortexas.org/groundwater/well/3155504

USGS National Geologic Map Database. Retrieved May 21, 2025. https://ngmdb.usgs.gov/Geolex/UnitRefs/TwinMountainsRefs_10690.html#:~:text=Summary:,Twin%20Mountains%20Formation



Map Generated 5/19/2025

LEGEND:

Ktm - Cretaceous Twin Mountains Formation

Qal — Quaternary Alluvium
Denotes Property



No Scale

Source: Geologic Atlas of Texas, Brownwood Sheet, 1976

Volleman Dairy Processing Land, LP Gustine, TX Comanche County

Geologic Atlas Map Figure T.F.1 Page 13



Enviro-Ag Engineering, Inc.

ENGINEERING CONSULTANTS
3404 Airway Boulevard
AMARILLO, TEXAS 79118
TEL (806) 353-6123 FAX (806) 353-4132

T.G: SOILS INFORMATION

T.G.1 Soil Features

Soil mapping units included in this section for the production area and waste disposal areas were taken from the electronic NRCS soil survey for Comanche County.



MAP LEGEND

Area of In	Area of Interest (AOI)	w	Spoil Area
	Area of Interest (AOI)	Ð	Stony Spot
Soils		€	Very Stony
	Soil Map Unit Polygons	3 4	10,41,41
}	Soil Map Unit Lines	➣	wer abou
	Soil Map Unit Points	Ø	Other
Special	Special Point Features	ţ	Special Lin
9	Blowout	Water Features	tures

/ Spot

ne Features

Streams and Canals Interstate Highways Rails **Transportation** ŧ

Closed Depression

Вотоw Pit

Clay Spot

US Routes

Gravelly Spot

Gravel Pit

Major Roads Local Roads

Aerial Photography Background

Marsh or swamp

Lava Flow

Landfill

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot Sandy Spot

Source of Map: Natural Resources Conservation Service Please rely on the bar scale on each map sheet for map measurements.

line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

misunderstanding of the detail of mapping and accuracy of soil

Enlargement of maps beyond the scale of mapping can cause

Warning: Soil Map may not be valid at this scale.

The soil surveys that comprise your AOI were mapped at

MAP INFORMATION

Coordinate System: Web Mercator (EPSG:3857) Web Soil Survey URL:

Maps from the Web Soil Survey are based on the Web Mercator distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts 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.

Survey Area Data: Version 20, Aug 30, 2024 Soil Survey Area: Comanche County, Texas

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Jan 27, 2021—Feb 3, 2021

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.

Severely Eroded Spot

Slide or Slip

Sinkhole

Sodic Spot

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BlalB	Blanket loam, 1 to 3 percent slopes	21.1	14.5%
ChC	Chaney loamy sand, 1 to 5 percent slopes	57.0	39.3%
НаВ	Hassee loam, 1 to 3 percent slopes	1.8	1.2%
PdC	Pedernales loamy fine sand, 1 to 5 percent slopes	23.0	15.8%
PeB	Pedernales fine sandy loam, 1 to 3 percent slopes	42,1	29.0%
Totals for Area of Interest		145.0	100.0%

Selected Soil Interpretations

This report allows the customer to produce a report showing the results of the soil interpretation(s) of his or her choice. It is useful when a standard report that displays the results of the selected interpretation(s) is not available.

When customers select this report, they are presented with a list of interpretations with results for the selected map units. The customer may select up to three interpretations to be presented in table format.

For a description of the particular interpretations and their criteria, use the "Selected Survey Area Interpretation Descriptions" report.

Report—Selected Soil Interpretations

		Selected Soil Interp	retation	s–Comanche County, 1	Texas		
Map symbol and soil name	Pct. of	AWM - Irrigation Disp Wastewater	osal of	AWM - Land Applica Municipal Sewage S		ENG - Sewage Lag	oons
	map unit	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BlalB—Blanket loam, 1 to 3 percent slopes							
Blanket	85	Somewhat limited		Somewhat limited		Somewhat limited	
		Slow water movement	0.37	Slow water movement	0.37	Seepage	0.50
		Seepage, porous bedrock	0.30				
ChC—Chaney loamy sand, 1 to 5 percent slopes							
Chaney	85	Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Seepage	1.00
		Slow water movement	1.00	Slow water movement	1.00	Depth to soft bedrock	0.26
		Too acid	0.42	Too acid	0.42	Slope	0.08
HaB—Hassee loam, 1 to 3 percent slopes							
Hassee	100	Very limited		Very limited		Very limited	
		Slow water movement	1,00	Slow water movement	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
PdC—Pedernales loamy fine sand, 1 to 5 percent slopes							
Pedernales	85	Somewhat limited		Somewhat limited		Not limited	
		Slow water movement	0.37	Slow water movement	0.37		

		Selected Soil Interp	retation	s-Comanche County, 1	Texas		
Map symbol and soil name	Pct. of	AWM - Irrigation Disp Wastewater	osal of	AWM - Land Applica Municipal Sewage S		ENG - Sewage Lag	joons
	map unit	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
PeB—Pedernales fine sandy loam, 1 to 3 percent slopes							
Pedernales	90	Somewhat limited		Somewhat limited		Not limited	
		Slow water movement	0.37	Slow water movement	0.37		

Data Source Information

Soil Survey Area: Comanche County, Texas Survey Area Data: Version 20, Aug 30, 2024

RUSLE2 Related Attributes

This report summarizes those soil attributes used by the Revised Universal Soil Loss Equation Version 2 (RUSLE2) for the map units in the selected area. The report includes the map unit symbol, the component name, and the percent of the component in the map unit. Soil property data for each map unit component include the hydrologic soil group, erosion factor Kf for the surface horizon, erosion factor T, and the representative percentage of sand, silt, and clay in the mineral surface horizon. Missing surface data may indicate the presence of an organic layer.

Report—RUSLE2 Related Attributes

Soil properties and interpretations for erosion runoff calculations. The surface mineral horizon properties are displayed or the first mineral horizon below an organic surface horizon. Organic horizons are not displayed.

	RUSLE	2 Related	l Attributes-Comanc	he Count	y, Texas			
Map symbol and soil name	Pct. of map unit	Slope length	Hydrologic group	Kf	T factor	Repre	sentative	value
	map unit	(ft)				% Sand	% Silt	% Clay
BlalB—Blanket loam, 1 to 3 percent slopes								
Blanket	85	200	С	.37	5	39.0	37.0	24.0
ChC—Chaney loamy sand, 1 to 5 percent slopes								
Chaney	85	200	С	.15	4	84.0	8.0	8.0
HaB—Hassee loam, 1 to 3 percent slopes								
Hassee	100	200	D	.49	5	44.3	40.7	15.0
PdC—Pedernales loamy fine sand, 1 to 5 percent slopes								
Pedernales	85	298	С	.28	5	85.0	10.0	5.0
PeB—Pedernales fine sandy loam, 1 to 3 percent slopes								
Pedernales	90	200	С	.24	5	71.0	17.0	12.0

Data Source Information

Soil Survey Area: Comanche County, Texas Survey Area Data: Version 20, Aug 30, 2024

Physical Soil Properties

This table shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In this table, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In this table, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In this table, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (Ksat), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (ovendry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3- or 1/10-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the "National Soil Survey Handbook."

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. (http://soils.usda.gov)

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist	Saturated hydraulic	Available	Linear extensibility	Organic matter	ш 4-	Erosion factors	Wind erodibility	Wind
					density	conductivity	capacity			Κw	Kf T	group	index
	иI	Pct	Pct	Pct	30/6	micro m/sec	In/In	Pct	Pct				
PdC— Pedernales loamy fine sand, 1 to 5 percent slopes													
Pedernales	0-12	75-85-87	75-85-87 4-10-19	3-5-9	1.58-1.62	1.58-1.62 14.00-42.00	0.08-0.12	9.0-0.0	0.3-1.3	.28	.28 5	2	134
	12-36	40-49-55	5-11-25	35-40-55	35-40-55 1.44-1.60	1.40-4.00	0.13-0.15	4.4-8.7	0.3-1.0	15	.15		
	36-44	40-55-60	40-55-60 5-10-30	30-35-45	30-35-45 1.49-1.73	1.40-4.00	0.14-0.17	3.2-6.5	0.1-0.8	.15	15		
	44-79	40-60-65	10-15-40	20-25-35	40-60-65 10-15-40 20-25-35 1.41-1.53 1.40-4.00	1.40-4.00	0.10-0.15	1.1-4.4	0.1-0.5	.20	.20		
PeB— Federnales fine sandy loam, 1 to 3 percent slopes													
Pedernales	2-0	55-71-75 7-17-34	7-17-34	5-12-18	1.48-1.55	4.00-14.00	0.13-0.17	0.2-1.5	0.5-1.5	24	.24 5	en	86
	7-21	40-49-55	5-11-25	35-40-55	35-40-55 1.44-1.60 1.40-4.00	1.40-4.00	0.13-0.15	4.4-8.7	0.3-1.0	15	.15		
	21-40	40-55-60	40-55-60 5-10-30	30-35-45	30-35-45 1.49-1.73	1.40-4.00	0.14-0.17	3.2-6.5	0.1-0.8	15	15		
	40-53	40-55-60	10-15-40	20-30-40	40-53 40-55-60 10-15-40 20-30-40 1.45-1.64 1.40-14.00	1.40-14.00	0.09-0.16	1.0-5.4	0.1-0.6	.20	.20		
	53-79	53-79 40-60-65 10-15-40 20-25-35 1.41-1.53 1.40-4.00	10-15- 40	20-25-35	141-153	1 40-4 00	0.10.0.15	7 7 7	0.00	00	C		

Data Source Information

Soil Survey Area: Comanche County, Texas Survey Area Data: Version 20, Aug 30, 2024



Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, provide information on the composition of map units and properties of their components.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

Comanche County, Texas

Map Unit: BlalB-Blanket loam, 1 to 3 percent slopes

Component: Blanket (85%)

The Blanket component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on ridges on hills. The parent material consists of loamy slope alluvium derived from limestone, sandstone, and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R085AY279TX Clayey Swale 30-38 ecological site. Nonirrigated land capability classification is 2e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 7 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Hassee (5%)

Generated brief soil descriptions are created for major soil components. The Hassee soil is a minor component.

Component: May (5%)

Generated brief soil descriptions are created for major soil components. The May soil is a minor component.

Component: Windthorst (5%)

Generated brief soil descriptions are created for major soil components. The Windthorst soil is a minor component.

Map Unit: ChC—Chaney loamy sand, 1 to 5 percent slopes

Component: Chaney (85%)

The Chaney component makes up 85 percent of the map unit. Slopes are 1 to 5 percent. This component is on ridges on low hills. The parent material consists of loamy slope alluvium and/or residuum weathered from sandstone and shale over claystone and/or interbedded sedimentary rock. Depth to a root restrictive layer, bedrock, densic, is 40 to 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 0 percent. This component is in the R084BY171TX Loamy Sand 29-33" PZ ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Hassee (4%)

Generated brief soil descriptions are created for major soil components. The Hassee soil is a minor component.

Component: Windthorst (4%)

Generated brief soil descriptions are created for major soil components. The Windthorst soil is a minor component.

Component: Nimrod (4%)

Generated brief soil descriptions are created for major soil components. The Nimrod soil is a minor component.

Component: Selden (3%)

Generated brief soil descriptions are created for major soil components. The Selden soil is a minor component.

Map Unit: HaB-Hassee loam, 1 to 3 percent slopes

Component: Hassee (100%)

The Hassee component makes up 100 percent of the map unit. Slopes are 1 to 3 percent. This component is on depressions on stream terraces on river valleys. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 9 inches during May, June, July, August, September, October. Organic matter content in the surface horizon is about 1 percent. This component is in the R084BY168TX Claypan 29-33" PZ ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit: PdC—Pedernales loamy fine sand, 1 to 5 percent slopes

Component: Pedernales (85%)

The Pedernales component makes up 85 percent of the map unit. Slopes are 1 to 5 percent. This component is on ridges on hills. The parent material consists of loamy residuum weathered from sandstone and siltstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrinkswell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R084BY171TX Loamy Sand 29-33" PZ ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Chaney (7%)

Generated brief soil descriptions are created for major soil components. The Chaney soil is a minor component.

Component: Cisco (5%)

Generated brief soil descriptions are created for major soil components. The Cisco soil is a minor component.

Component: Demona (3%)

Generated brief soil descriptions are created for major soil components. The Demona soil is a minor component.

Map Unit: PeB-Pedernales fine sandy loam, 1 to 3 percent slopes

Component: Pedernales (90%)

The Pedernales component makes up 90 percent of the map unit. Slopes are 1 to 3 percent. This component is on ridges on hills. The parent material consists of loamy residuum weathered from sandstone and siltstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrinkswell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R084BY175TX Tight Sandy Loam 29-33" PZ ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Cisco (3%)

Generated brief soil descriptions are created for major soil components. The Cisco soil is a minor component.

Component: Chaney (3%)

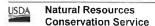
Generated brief soil descriptions are created for major soil components. The Chaney soil is a minor component.

Component: Wise (2%)

Generated brief soil descriptions are created for major soil components. The Wise soil is a minor component.

Component: Blanket (2%)

Generated brief soil descriptions are created for major soil components. The Blanket soil is a minor component.



Data Source Information

Soil Survey Area: Comanche County, Texas Survey Area Data: Version 20, Aug 30, 2024

Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic soil group is a group of soils having similar runoff potential under similar storm and cover conditions. The criteria for determining Hydrologic soil group is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx? content=17757.wba). Listing HSGs by soil map unit component and not by soil series is a new concept for the engineers. Past engineering references contained lists of HSGs by soil series. Soil series are continually being defined and redefined, and the list of soil series names changes so frequently as to make the task of maintaining a single national list virtually impossible. Therefore, the criteria is now used to calculate the HSG using the component soil properties and no such national series lists will be maintained. All such references are obsolete and their use should be discontinued. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Percentage of rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Liquid limit and plasticity index (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk " denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/ OpenNonWebContent.aspx?content=17757.wba). Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

				Engineerin	g Propertie	Engineering Properties-Comanche County, Texas	S County,	Texas						
Map unit symbol and Pct. of Hydrolo	Pct. of	Hydrolo	Depth	USDA texture	Classi	Classification	Pct Fra	Pct Fragments	Percenta	ige passir	ng sieve r	Percentage passing sieve number-		Plasticit
	unit	group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	<u><u> </u></u>	y index
			u				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
BlaIB—Blanket loam, 1 to 3 percent slopes														
Blanket	82	U	9-0	Loam	CL, ML	A-6, A-4	0-0-0 0-0-0		97-100-	97-100- 95-100- 85-97-1 58-73- 100 100 78	85-97-1 00	58-73-	25-35	3-14-17
			6-22	Silfy clay, clay, clay loam	CL, CH	A-7-6	0-0-0	0-0-0	97-100- 94-100- 100 100	94-100-	85-99-1 00	67-85- 97	45-49	26-29-3
			22-48	Silty clay loam, clay, CL, CH clay loam	CL, CH	A-7-6, A-6 0- 0- 0		0-0-0	91-100-	81-100-	71-99-1	53-83- 99	35-42 -62	17-22-3 8
			48-80	Silty clay loam, clay, CL, CH clay loam	CL, CH	A-6, A-7-6 0- 0- 0		0-0-0	91-100- 82-100- 100 100		71-99-1	51-78- 96	35-36 -61	17-18-3 8

				Engineerin	ng Propertie	Engineering Properties-Comanche County, Texas	e County,	Texas						
Map unit symbol and	-	Hydrolo	Depth	USDA texture	Class	Classification	Pct Fra	Pct Fragments	Percent	Percentage passing sieve number-	ng sieve ı	number—		Plasticit
	unit	group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	Ĕ E	y index
			υĮ				1-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
ChC—Chaney loamy sand, 1 to 5 percent slopes														
Chaney	85	ပ	4	Loamy sand	SM, SC- SM	A-2-4	0-0-0	0-0-0	93-98-1	92-98-1	-62-69 87	16-23-	5-15 -21	5-15-21 NP-2-6
			4-14	Loamy fine sand, loamy sand, fine sand	SM, SC- SM	A-2-4	0-0-0	0-0-0:	93-99-1 00	92-98-1	-62-69 87	16-23- 30	5-15 -21	NP-2 -6
			14-40	Sandy clay, clay	SC, CL, CH	A-7-6, A-6	0-0-0	0-0-0	92-97-1	90-97-1	76-89- 99	41-51-	38-46	16-24-3 2
			40-52	Sandy clay, clay, clay loam, sandy clay loam	SC, CL, CH	A-4, A-6, A-7-6	0-0-0	0-0-0	95-100-	95-100-	78-95-1 00	36-51- 63	25-40	8-17-29
			52-80	Sandy clay, clay, sandy clay loam	CH, SC	A-7-6, A-6 0-0-0	0-0-0	0-0-0	95-100-	94-100-	70-94-1	41-64- 74	30-51	11-25-3 6
HaB—Hassee loam, 1 to 3 percent slopes														
Hassee	100 D		0-12	Loam	ರ	A-4, A-6	0-0-0	0-0-0	95-98-1 00	95-98-1	80-90-1	50-65-	20-28	8-12-16
			12-42	Silty clay, clay	CH, CL	A-7-6	0-0-0	0-0-0	95-98-1 00	95-98-1	95-98-1	75-85- 95	41-52	24-33-4
			42-60	Clay loam, clay	CH, CL	A-6, A-7-6 0-0-0	0-0-0	0-0-0	95-98-1 00	95-98-1 00	90-95-1 00	70-83- 95	35-44 -52	20-28-3

				Engineerir	Engineering Properties-Comanche County, Texas	s-Comanch	e County,	Texas						
Map unit symbol and	Pct. of	Hydrolo	Depth	USDA texture	Classi	Classification	Pct Fr	Pct Fragments	Percent	Percentage passing sieve number-	ng sieve r	number—	Liquid	Plasticit
	unit	group			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	E E	y index
			ul				L-R-H	L-R-H	H-H-7	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
PdC—Pedemales loamy fine sand, 1 to 5 percent slopes														
Pedernales	85	O	0-12	Loamy fine sand	SC-SM	A-2-4	0-0-0	0-0-0	97-100-	92-100-	85-94- 98	24-29- 33	0-17 -23	NP-4 -5
			12-36	Sandy clay, clay	CF	A-6	0-0-0	0-0-0	97-100-	92-100-	85-97-1 00	45-54- 69	37-39 -56	20-21-3
			36-44	Clay loam, sandy clay, clay	SC	A-6	0-0-0	0-0-0	97-100-	92-100-	85-97-1 00	40-48- 58	38-39 -52	20-21-3
			44-79	Loam, clay loam, sandy clay loam	SC	A-6	0-0-0	0-0-0	89-95-1 00	78-88-1 00	71-85-1 00	31-39- 54	29-34	12-16-2 5
PeB—Pedernales fine sandy loam, 1 to 3 percent slopes														
Pedemales	06		2-0	Fine sandy loam	SC-SM	A-4	0-0-0	0-0-0	97-100-	92-100-	82-96-1 00	29-39- 45	17-24 -31	2-7 -12
			7-21	Clay, sandy clay	J	A-6	0-0-0	0-0-0	97-100- 100	92 - 100- 100	85-97-1 00	45-54- 69	37-39 -56	20-21-3 4
			21-40	Sandy clay, clay loam, clay	SC	A-6	0-0-0	0-0-0	97-100- 100	97-100- 92-100- 100 100	85-97-1 00	40-48- 58	38-39 -52	20-21-3
			40-53	Sandy clay loam, clay loam, sandy clay	SC	A-6	0-0-0	0-0-0	94-98-1	86-98-1 00	75-95-1 00	34-49- 59	29-39 -50	12-20-2 9
			53-79	Sandy clay loam, loam, clay loam	သွ	A-6	0-0-0	0-0-0	89-95-1 00	78-88-1 00	71-85-1 00	31-39- 54	29-34 -45	12-16-2 5

Data Source Information

Soil Survey Area: Comanche County, Texas Survey Area Data: Version 20, Aug 30, 2024



T.H: ENGINEERING REPORT

T.H.1 Purpose

This report is prepared as part of the Volleman Dairy Processing Plant application for a Texas Land Application Permit (TLAP) through the Texas Commission on Environmental Quality (TCEQ). Water balance models have been developed to illustrate the function of the impoundment system and the hydraulic and nutrient demands of the planned crops.

T.H.2 Background

Volleman Dairy Processing Plant is applying for a Major Amendment to its Water Quality TLAP Permit No. WQ0005282000 to receive, store, and dispose of treated effluent.

T.H.3 Impoundment Facility

The treatment system at the facility consists of one earthen impoundment with a storage capacity of 5.7 million gallons and a storage system with a capacity of 7.7 million gallons.

T.H.4 Water Balance Calculations

Figures T.H.1 and T.H.2, Water Balance Calculations, are designed to evaluate the maximum application rate (hydraulic loading rate) for the land application area and estimate the inflows and withdrawals from direct rainfall, process-generated wastewater, evaporation, and irrigation withdrawal based on crop demand.

Figure T.H.1 Water Balance Calculations

Permittee: Volleman Dairy Processing Land, LP, Volleman Dairy, LLC, and Na
WQ0005282000 TWDB Data Quadrangle:
609

The water balance calculations are designed to evaluate the maximum application rate (hydraulic loading rate) for the land area where irrigation is to occur. The applicant's proposed application rate must not must not exceed the maximum calculated application rate or the maximum application rate based on agronomic analysis.

							Effluent	Evaporatio	Effluent to	Consumpti
		1	Average			Total Water	Needed in	n from	be Applied	on from
	Avg.	Average	Infiltrated	Evapotrans-	Required	Needs	Root Zone	Reservoir	to Land	Reservoir
Month	Precip.	Runoff	Rainfall	piration	Leaching	(5)+(6)	(7)-(4)	Surface	(8)/K	(9)+(10)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Units →	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
January	1.70	0.16	1.54	1.10	0.00	1.10	0.00	0.10	0.00	0.10
February	1.76	0.18	1.58	1.50	0.00	1.50	0.00	0.12	0.00	0.12
March	2.48	0.48	2.00	3.70	0.39	4.09	2.10	0,22	2.47	2.69
April	2.31	0.40	1.91	4.50	0.60	5.10	3.19	0.39	3.75	4.14
May	4.52	1.76	2.76	8.00	1.21	9.21	6.45	0.07	7.59	7.66
June	3.26	0.91	2.34	9.00	1.54	10.54	8.19	0.50	9.64	10.13
July	1.95	0.25	1.71	9.30	1.75	11.05	9.35	0.81	10.99	11.80
August	2.10	0.31	1.79	5.90	0.95	6.85	5.05	0.78	5.95	6.73
September	2.85	0.68	2.17	6.70	1.04	7.74	5.57	0.39	6.55	6.95
October	3.52	1.08	2.44	5.20	0.64	5.84	3.39	0.16	3.99	4.15
November	1.90	0.23	1.67	2.10	0.10	2.20	0.53	0.18	0.62	0.81
December	1,22	0.04	1.18	0.90	0.00	0.90	0.00	0.17	0.00	0.17
Totals	29.56	6.45	23.11	57.90	8.22	66.12	43.82	3.89	51.55	55.44

Crop is	Coastal Be	rmudagrass
CN	71.00	dimensionless
Ce	1.50	mmhos/cm
Cl	8.00	mmhos/cm
Pond area	6.92	acres
Irrigation area	46.00	acres
T!		

Irrigation
Efficiency, K 0.85 dimensionless
Design Flow 0.100 MGD

Maximum calculated application rate = 4.62 ac-in/ac/month **OR** ac-ft/ac/year Applicant's proposed application rate = ac-in/ac/month **OR** ac-ft/ac/year Maximum rate from agronomic analysis = N/A ac-in/ac/month **OR** ac-ft/ac/year

Recommended rate for permit = 4.62 ac-in/ac/month OR ac-ft/ac/year

Limiting factor = Click this cell to choose from list.

Gross rate check (from flow, acres) = 2.44 OK

- (2) Average rainfall Data source: Texas Water Development Board (see Quadrangle above)
- (3) Average runoff = $\frac{(average\ rainfall-(0.2*((1000/CN)-10)))}^2/((average\ rainfall+(0.8*((1000/CN)-10)))))^2/((average\ rainfall+(0.8*((1000/CN)-10))))))$
- (4) Average infiltrated rainfall = (average rainfall average runoff)
- (5) Evapotranspiration Borelli, Bulletin 6019
- (6) Required leaching =
 - If: $evapotranspiration average infiltrated rainfall \le 0$, then 0;
 - $If: evapotranspiration\ -\ average\ infiltrated\ rainfall\ > o,\ Ce\ /(Cl-Ce\)*(evapotranspiration\ -\ avg\ infiltrated\ rainfall\)$
- (7) Total water needs = evapotranspiration + required leaching
- (8) Effluent needed in root zone = total water needs average infiltrated rainfall
- (9a) Net evaporation Data source: Texas Water Development Board (see Quadrangle above)
- (9b) Raw net evaporation from reservoir surface = (net evaporation from reservoir)*((pond area)/(irrigation area))
- (10) Effluent needed based on irrigation efficiency = (effluent needed in root zone)/(irrigation efficiency)
- (11) Consumption from reservoir = net evaporation from reservoir surface + effluent needed based on irrigation efficiency

Figure T.H.2 Water Balance Calculations

STORAGE CALCULATIONS, all units in inches (unless otherwise specified)

Permittee: Volleman Dairy Processing Land, LP, Volleman Dairy, LLC, and Natural Dairy Grower Land, LP

Permit No.: WQ0005282000

The storage calculations are designed to evaluate the storage capacity and surface area of the applicant's storage pond (or multiple ponds). The pond must have enough surface area to evaporate all the flow to the pond under low-net evaporation and corresponding annual rainfall conditions. The pond is considered adequately sized when the adidtional storage required is equal to zero (or "none"). If the additional storage required is greater than zero, then: (1) the pond's storage capacity must be increase, (2) the pond's surface area must be increased, (3) the effluent flow must be reduced, or (4) other approved measures must be taken to ensure that no accumulation occurs during low-net evaporation and corresponding annual rainfall conditions.

	a	b	С			d	e	f
						Net 25		
	Effluent					Year Low		
	Received	Rainfall	Runoff			Evaporatio		
	for	Worst Year	Worst Year	Infiltrated	Available	n from		
	Application	in Past 25	in Past 25	Rainfall (14)-	Water	Regur		Accumulat
Month	or Storage	Year	Year	(15)	(13)+(16)	Surface	Storage	ed Storage
(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
Units →	inches	inches	inches	inches	inches	inches	inches	inches
January	2.44	2.65	0.57	2.08	4.52	0.00	2.43	7.30
February	2.44	2.75	0.62	2.13	4.56	0.00	2.43	9.74
March	2.44	3.86	1.30	2.56	5.00	0.00	0.63	10.37
April	2.44	3.60	1.13	2.47	4.91	0.00	-0.66	0
May	2.44	7.05	3.76	3.28	5.72	0.00	-4.54	0
June	2.44	5.08	2.18	2,90	5.34	0.00	-6.55	0
July	2.44	3.05	0.79	2,26	4.70	0.00	-7.91	0
August	2.44	3.28	0.92	2.35	4.79	0.00	-2.86	0
September	2.44	4.45	1.71	2.74	5.17	0.00	-3.46	0
October	2.44	5.50	2.50	3.00	5.43	0.00	-0.90	0
November	2.44	2.96	0.74	2,22	4.66	0.00	2.43	2.43
December	2.44	1.90	0.23	1.67	4.11	0.00	2.43	4.87
Totals	29.22	46.13	16.45	29.68	58.90	0.02	24	10.37

Worst (low) net evap. =	-0.13 inches	Storage required =	39.76 ac-ft
Corresponding rain =	46.13 inches	Actual storage =	ac-ft
Worst-case net year =	2007	Additional storage required =	39.76 ac-ft
		Storage days =	130 days

- (13) Effluent available for irrigation (assumes design flow is applied to entire acerage unless different flow values are justified).
- (14a) Average rainfall distribution Data source: Texas Water Development Board (see Quadrangle in Water Balance Calculations above)
- (14b) Rainfall worst year = (rainfall distribution as fraction or %/100)*maximum annual rainfall
- (15) Field runoff worst year = $[(rainfall\ worst\ year (0.2*((1000/CN) 10)))]^2/((rainfall\ worst\ year + (0.8*((1000/CN) 10))))]$
- (16) Infiltrated rainfall = (rainfall worst year-field runoff worst year)
- (17) Available water = (effluent available for land application + infiltrated rainfall check)
- (18a) Average net evaporation distribution Data source: Texas Water Development Board (see Quadrangle in Water Balance Calculations above)
- (18b) Net low evaporation from reservoir surface = $[(|low\ net\ evaporation\ |\)^*(net\ low\ evaporation\ avg.\ dist)]^*[(pond\ area\)/(irrigation\ area\)]$
- (19) Storage =
- If: (total water needs infiltrated rainfall) < 0, (effluent available for land application net low evaporation from reservoir surface);
 - If: (total water needs infiltrated rainfall) ≥ 0 ,
- (effluent available for land application net low evaporation from reservoir surface) * [(total water needs infiltrated rainfall)/(irrigation efficiency)]
- (20) Accumulated storage =
 - If: net low evaporation from reservoir surface + storage ≤ 0 , 0
 - If: $net\ low\ evaporation\ from\ reservoir\ surface\ +\ storage\ >\ o,\ enter\ value$

T.I: POLLUTANT ANALYSIS DATA



Pace Analytical ANALYTICAL REPORT May 16, 2025

TABLE OF CONTENTS

Enviro-Ag Engineering

Pollutant Permit 04/16/2025 L1848365 VP-51 Sample Delivery Group: Samples Received: Project Number: Description:

Report To:

Jourdan Mullin

Amarillo, TX 79118 3404 Airway Blvd.

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Wet Chemistry by Method 3500Cr-8

Wet Chemistry by Method 351,2 Wet Chemistry by Method 350.1

Wet Chemistry by Method 2320B Wet Chembtry by Method 300.0

Sc

Wet Chemistry by Method 4500Cl G-2011

Wet Chemistry by Method 4500CN-E

Wet Chemistry by Method 4500P-E

Wet Chemistry by Method 5210 8-2016

Wet Chemistry by Method 5220D

Wet Chemistry by Method 5310C

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Gravimetric Analysis by Method 2540C Gravimetric Analysis by Method 2540D

Oc. Quality Control Summary

VP-51 L1848365-01

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SS

Sr. Sample Results Cn: Case Narrative

Tc: Table of Contents Ss: Sample Summary

Wet Chemistry by Method SMASOONH3H Wet Chemistry by Method SM 450G-H-B

Metals (ICP) by Method 200.7

Results relate only to the terms (excel or calcanted and are repeated as counted values. This lass report soul mobile recognition for control mobile and the calcanted are recognitionally associated and the calcanted are reported as the calcanted are repeated as the calculated as the calculated and the calcanted are repeated as the calculated are repeated as the calcanted are repeated as the calculated are recovered.

Entire Report Reviewed By: Dorty ? Louts

Dorothy P Roberts

Project Manager

Mercury by Method 245.1

At Accreditations & Locations Sc. Sample Chain of Custody

Gl: Glossary of Terms

SDG: L1848365

PROJECT: V²-51

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DATE/TIME: 05/16/25 15 52

SDG; L1848365

ACCOUNT. Envro-Ag Engineering

12065 Lebanon Rd Mbunt Juliet, TN 37122 615-758-5858 800-767-5859 mydata,pacelabs.co.

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DATE/TIME: 05/16/25 15 52

PAGE.

SAMPLE SUMMARY

Collected by

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VP-51 L1848365-01			Cores Miller	34/6/25/06/58	0445/25 10 45	571
Nethod	Batch	Dillian	Preparation	Analysis	Analyst	Location
			dale/lime	алейле		
Calculated Results	WG2496736	-	04 22/25 * 20	04/22/25 14 26	510	Allen, TX
Calculated Results	WG2499813	Se	04 35/25 11 42	04/36/25 11 42	MIL	Mt Junet, IN
Gravimetric Analysis Ity Method 25/190	WG2493508	-	DA 17/25 15:39	347.7/25 16 52	TCO	Allen, TX
Gravi metric Analysis by Method 254GD	WC2496035	**	04 2 725 10 36	34/21/25 12 39	TCO	Allen, TX
Wet Chemistry by Method 23208	WG2495997	20	04 21/25 09:47	04/21/25 09:47	Ψ	Allen, TX
Wet Chemistry by Method 300 0	WG2452477	-	04 17/25 10:05	04/77/25 10:05	SBL	Allen, TX
Wet Chein stry by Method 300.0	WG2492427	100	04 17/25 12:39	04/7/25 12:39	SBL	Allan, TX
Wet Chem stry by Method 300 0	WG2493314	-	04/17/25 14:52	04/17/25 14:52	281	Allen, TX
Wet Chemistry by Method 3500Cr-B	WG2452808	-	04 17/25 14 57	04/17/25 14 57	SMC	Allen, TX
Wet Chemistry by Method 351.2	WG2492894	52	04/17/25 19:01	04/17/25 19:49	913	Allen, TX
Wet Chemistry by Method 350 1	WG2492850	-	04 17/25 09 03	04/17/25 09:03	MP	Allen TX
Witt Chemistry by Method 4500Cl G-2011	WE2505281	2	05/05/25 15 29	05/05 25 IS 29	.AS	Mt Julies, TN
Wet Chein stry by Method 4500CN-6	WC2453257	-	04 17/25 13:19	10:3177/25	SMC	Allen, TX
Wet Chemistry by Method 4500CN-6	WC2453257	-	04 17/25 16:01	04/77/25 16 01	SMC	Allen, TX
Wet Chamistry by Method 4500P-E	WG2458734	20	04'24/25 6:20	04/24/25 16:20	SMC	Allen, 1X
Wet Chemistry by Method 5270 B-2016	WC2451939	-	04/16/25 15:25	04/21/25 10:11	SKW	Allen, TX
Wet Chemistry by Method 5270 8-2016	WC2491945	-	04/16/25 15:28	34/21/25 11:20	SKW	Allen, TX
Wet Chemistry by Method 5220D	WG2492847	7	04/17/25 09:36	04/17/25 16:56	SKW	Allen TX
Wet Chem stry by Method 5300C	WG2456755	20	04 22/25 21:23	04/22/25 21:23	515	Allen, TX
Wet Chem stry by Method SM 4500-H+B	W62493937	-	0418/25 38:57	04/18/25 08:57	MP	Allen TX
Wet Chem stry by Method SM4500NH3H	W62496736	ın	04/22/25:74:20	04/22/25 14:20	515	Allen TX
Mercury by Method 2451	WG245265"		04/20/25 16:27	04/21/25 19:25	AK3	Mt Jullet, TN
Werals (ICP) by Method 2007	WG2459812	-	04 29/25 18:39	04/36/25 11:42	MTL	Mt Julie: TN
Subcontracted Analyses	WG2493246	-	05/15/25 00:00	05/15/25 00:00	T.	Lenexa, 4S 56219

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate presservatives, and within method specified holding times, unless qualified on notated within the report. Where applicable, all MLDL (LOD) and RDL (LOD) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established critical except where a discreased in this case institute, an on-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my condeny of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

8 5 8 5 E



Dorothy P Roberts Project Manager Project Narrative

Please see the OI and Grease results at the end of the report with the chain of custody L1849365-01 contains subout data that is included after the chain of custody

Sample Delivery Group (SDG) Narrative

	Method	3500Cr-B
in the laboratory.	Project Sample ID	VP-51
Analysis was filtered in the laboratory	Lab Sample ID	L1848365-01

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID Method

LB43855-01 YP-51 3500Cr-B

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SDG: L7848365

PROJECT: VP-51

Envro-Ag Engineering

PAGE:

DATE/TIME: 05/16/25 15:52

SDG: L1848365

PROJECT: VP-51

VP-51 Collected date/time: 04/16/25 06:38 Weit Chemistry by Morthor 45000/NJE		Kesull Qualifier HOL Diluton Analysis	Color California Wet Chemistry by Method 4500CN-6	Result Qualifier RDL Dikutom Analysis Botch	ingil date, trae	Cydnolog priematale ND C C1500 1 04/17/2025 R5:01 WG24937527	DDI Olivica Analosis	Outsimer ROL Ulluson	139 ¥ 100 20	Wet Chemistry by Method 5210 B-2016	Result Qualifier RDL Dilution	date / time	150 150 150 1	Wet Chemistry by Method 5220D	Dacuth Onsition DDI Fultrion Analysic Broth	mg/l date / time		Wet Chemistry by Mathod 53100	Overline DNI Dilution Application	mgm Ngm		Wet Chemistry by Method SM 4500-H+B	Result Oualifier Dilution Analysis Barch St. St. St. St. St. St. St. St. St. St.	7 IS T	Sample Narration	L1842355-71 WC2495577-7 87 at 24 GC	Wet Chemistry by Method SM4500NH3H	Result Oualifier RDL Dilution	mg/l ng/l date/time	Ammonia Nicoges: 244 0.500 5 04/22/2025 N.20 WG2456735 Mercury by Method 245,1	The state was an e
		17		SS	5		į ži	9)	9	GI							127	227	127	SIN SIN			800			394	ı			= 058	
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VP-51 Collected date/lime: 04/16/25 05:38	Calculated Results		Chronium,Trivalent O garic Nitogen	metric Analy		Analyte Total Dissolved Solids	Juny Augh	memic Anai,	Analyte	Suspended Solids	Chemistry by		Analyte	Homistry by	archingay o			į	Nirate as (N)	hemistry by			Chromium,Hexavalant	Chemistry by		Analyte Kyrleabi Niziogen, TKN	hemistry by			Dissolved Oxygen	CITCHINGS P.

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Analyte	Result mg/l	Onalitier	ROL mg/l	Dilution	Dilution Analysis date / time	Batch
Mercury	Q		C 000200	7	04/21/2025 19:25	WG2492651

 Dilution
 Analysis
 Batch

 date / time
 Analysis
 Batch

 5
 G5/05/2025 15:29
 WIG25/05/2011

Qualifier RDL mg/l

Result mg/l ND

50

Chlorine residual

Sample Narrative: L18×8355-01 WGZ505281: Oilution due to sample matrix

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DATE/TIME: 05/16/25 15 52

SDG: L:848365

PROJECT: V=-51

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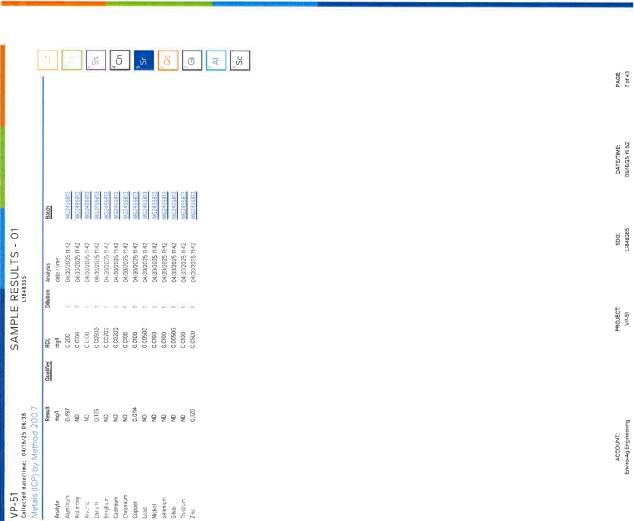
PAGE 5 of 43

OATE/TIME: 05/16/25 | 5.52

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Laboratory Control Sample (LCS) 01 S JO Suspended Solids yδιυ Original Result DUP Result Dilution DUP RPD 90) L1848365-01 64/21/25 12:39 (PUD) R4203183-4 04/21/25 13:39 L1848365-01 Original Sample (OS) • Duplicate (DUP) OL E9 7 00161 00981 Suspended Solids Organal Result DUP Result Dilution DUP RPD 80-PY184811 (20) L1848174-05 Original Sample (CS) • Duplicate (DUP) 5 20 5 20 spilos papuadsas ÞΙ MB Qualifier MB MDL IND BOT (MB) R4203183-1 04/21/25 12:39 Method Blank (MB) Gravimetric Analysis by Method 2540D QUALITY CONTROL SUMMARY MC2496035

SIL-0 58

Rec. Limits LCS Qualifier

528

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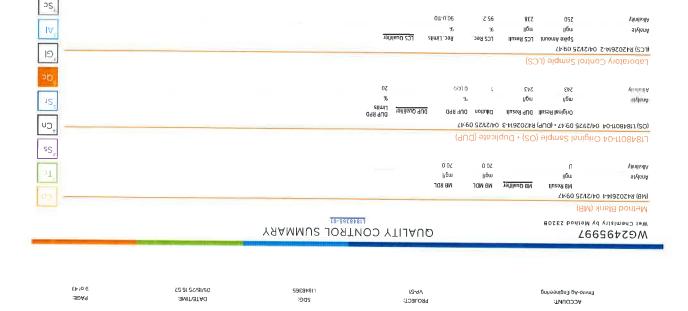
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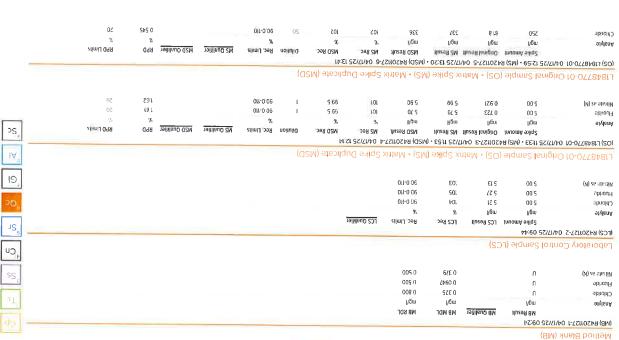
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QUALITY CONTROL SUMMARY

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	oq Blank (MB)
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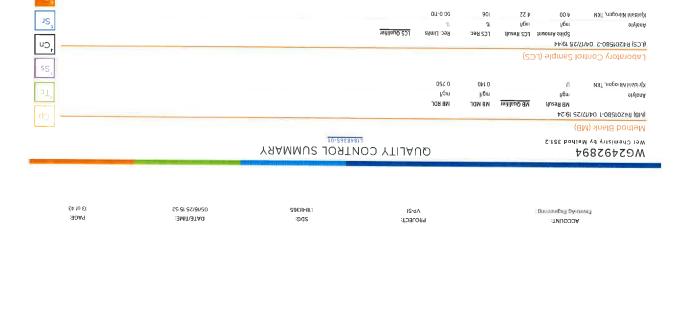
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MSD Result MS Rec

Rec Limits LCS Qualifier

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MSD Result MS Rec

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Spike Amount LCS Result LCS Rec

Spike Amount Original Result MS Result (OS) L1846022-01 04/17/25 14:57 (MS) R4201063-3 04/17/25 14:58 (MSD) R4201063-4 04/17/25 14:58 L1846022-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) D18485525-01 04/17/25 20:11 (MS) R4201580-3 04/17/25 20:04 (MSD) R4201580-4 04/17/25 20:05 L1848552-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

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Rec Limits

LCSD Rec

LCSD Result LCS Rec

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LCS Oualifier LCSD Qualifier RPD

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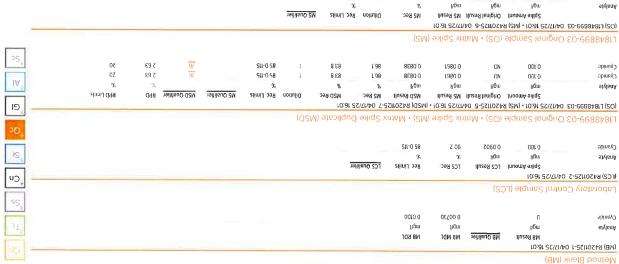
Laboratory Control Sample (LCS) · Laboratory Control Sample Duplicate (LCSD)

Spike Amount LCS Result (FCS) 64509899-2 05/05/25 15:26 (FCSD) 64509899-3 05/05/25 15:26

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Method Blank (MB)



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Spike Amount LCS Result l9 (FCS) 64202581-2 04/21/25 09:33 Laboratory Control Sample (LCS) 07 93 ₹ 68 Þ 3 46 009 nD^z //6w ı/6w alylonA Original Result DUP Result Dilution DUP RPD ENOI 351/51/0 6-18250249 (PUP) 9-09:60 551/51/0 10-8787481J (20) L1847878-01 Original Sample (OS) • Duplicate (DUP) 0020 0020 OOH (/6w alylonA IND KDF MB MDF MB Qualifier MB Result (MB) R4202581-1 04/21/25 09:27 Method Blank (MB) 10-59687817 Wel Chemistry by Method 5210 B-2016 QUALITY CONTROL SUMMARY WG2491939

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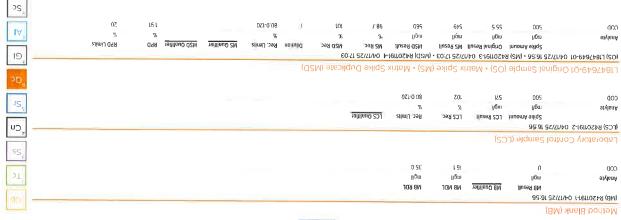
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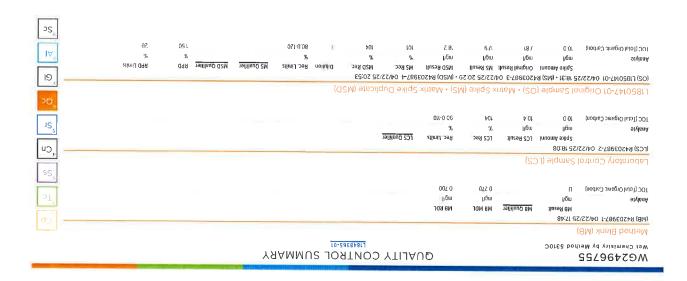
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QUALITY CONTROL SUMMARY

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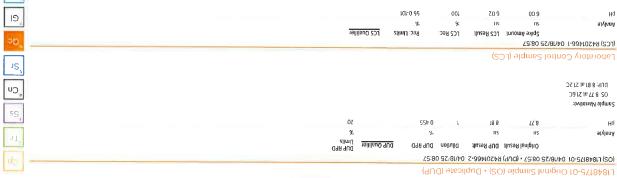






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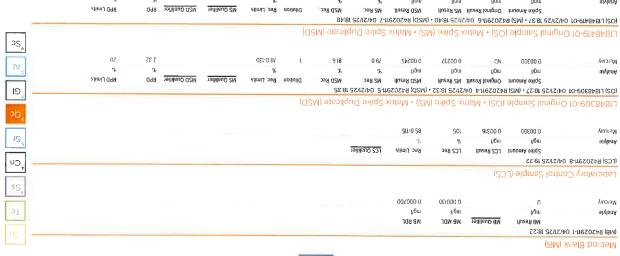


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GLOSSARY OF TERMS

Guide to Reading	Guide to Reading and Understanding Your Laboratory Report
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Abbreviations an	and Definitions
MDL	Method Detection Limit
	Not detected at the Reporting Limit (or MDL where applicable). Renormed Detection Limit
1 0	Recovery Control Emilia
RPD	Relative Percent Difference
SDG	Sample Delivery Group
ם	Not detected at the Reporting Limit (or MDL where applicable)
Analyte	The name of the particular compound or analysis performed. Some Analysiss and Methods will have multiple analytes reported.
Dilution	If the sample mathy contains an interfering matter at the Jample preparation volume or veright vitties close from the standard, and concentration of standard and the ingress family of concentration that the laboratory can accust any report the sample may be distincted by the distinct of said reported has already been concerted for this factor.
Limits	These are the target to leccient ranges or 6 ofference value that the laboratory has historically determined as normal for the method and sub-jet being leported. Successful CC Sample analysis will target all analyses recovered or outpicked within these intiger.
Onginal Sample	The non-spiked sample in the p-ep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Ongmal Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported if a Cutalities to present, a definition teo Caldities, its provides with the Glossya's and Definitions page and potentially a discussion of possible a malications at the Qualities or the Case Mannaw it applicable.
Result	The actual may local mail result (consisted for any sample alpholic characterstics) reported to your sample. If there was no more about the house for the more first a specific market may be such the more statement may state in the "Not Described" or "Blood and the statement of the market may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that the such that may be such that the such that may be such that the such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such that may be such tha
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any than-conformances to pratocal observed active and are respected by the Monatoly from re-inflat or administration flatocess. It present there will be a recent in the Case Narrane to observe it he manned of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analysiscal instituted for your samples. These analyses are not being performed on your semilary potedly, but on laboratory generated must led.
Sample Chain of Custody (Sc)	These the document created in the field when your samples were intelly collected. This is used to verify the time and date of collection, the profess of collection, the periodic collection the profess of collection to periodic collection to collection the collection to the collection to the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collecti
Sample Results (Sr)	This section if your report will provide this results of all testing performed on your samples. These results are provided by sectionally by the additional or such testing the results of the section for each sample. The bedder line of each samples section for each sample will provide the latter and reprod number for the analysis reported.
Sample Summary (5s)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the outes and times of preparation and/or analysis.
Qualifier	Description
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25	The sample matrix interfered with the ability to make any accurate determination; spike value is high
91	The sample matrix interfered with the ability to make any accurate determination; spike value is low
5. (RPD value not applicable for sample concentrations less than 5 times the reporting limit. Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be
3 1	considered minimum values
18	Sample(s) received past too close to holding time expiration.
>	me sampre concernation is too righ to evaluate accurate spike recoveres.

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Enviro-Ag Englneering

Jourdan Mullin 254-965-3500

Regulatory Program(DOD,RCRA,DW,etc):

Sample IO

F - Filter 0 - Glossay

VP-51

3404 Airway Bivd. Amarillo, TX 79118

Project Description: Pollutant Permit

mmedlately Packed on Ice N

* Matrix: \$5-5 oil Air - Air GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Bryan Mullin

Rush? (Lab MUST Be Notified)

Matris *

ww

Depth

Remarks:Field TEMP Metals, Al,Sb,As,Ba,Be,Cd,Cr,CR6,CR3,Cu,Pb,NI,Se,Ag,Tl,Zn, Hg

8:00 AM

Comp/Grab

Samples returned via; UPS FedEx Courier

4-16-25

3404 Airway Blvd. Amarillo, TX 79118

Email To: cmullin@enviroag.com;rge

Pres Chk

ALLALK 125mHDPE-NoPres

X

ALLBOD 1L-HDPE NoPres

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Chain of Custody Page Lof L

Pace

ALLEN, TX

Acctnum: DSENVIGOTX

Pralogia: P1144019
PM 3565 : Dorothy P Roberts
PB: 4 9 7 Surv
Shipped Via: FedEX Ground

emplate:T258910

Metals ICP site spec 250mlHDPE HNO3

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SDG:

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ALLTOC 250mlAmb-H2504

ALLTSS 1L-HDPE-NoPres

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ALLTDS 1L-HDPE NoPres

ALLPHOS SOOMIHOPE Add H2504 ALLCN/ CNAM 250mlHDPE-NaOH

Temperature should be above friending to 6°C unless collected same day as receipt in which evidence of cooling is acceptable. Page 1 of 1 DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt GFt Worth GCorpus Christi GAustin Yes & No D Yes D No D NA D Yes O No O NA/O Yes O No O/NA O Yes - No pd NA -Yes O No O NA & Yes O No O NA 7 Yes - No - NA Sample Condition Upon Receipt Yes of No a Yes of No a Yes of No a Nes of No □ Yes No Yes | No A Date: Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH) Project sampled in USDA Regulated Area outside of Unpreserved 5035A soil frozen within 48 hrs ZDallas Date: Lead Acetate Strips: 40744 Date: Effective Date: 12/18/2023 Sample pH Acceptable 140 2007
PH Strips: L40 2007
Residual Chlorine Present 14 - 86 • Cl Strips: Sampler name & signature on COC Labeling Person (if different than log-in): Chain of Custody relinquished Triage Person: Statutum Short HT analyses (<72 hrs) Headspace in VOA (>6mm) Correct Container used State Sampled: Non-Conformance(s): Container Intact Sulfide Present Qualtrax ID: 48806 Pace Login Person:

Enviro-Ag Engineering			milling In	formation:						Analieste	/ Contai	mme / Ben	servative	_	Chain of Cu	7
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Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)599-5665

May 15, 2025

Jimmy Huckaba

Project: L1848365 Pace Project No.: 60474211 Ä

Dear Jimmy Huckaba:

Endosed are the analytical results for sample(s) received by the laboratory on May 01, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cheisa From

allison.sherman@pacelabs.com (913)599-5665 PM Lab Management Allison Sherman

cc: MTJLSuboutTeam, Pace Analytical National



REPORT OF LABORATORY ANALYSIS

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Page 1 of 11



Pace Analydeal Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

L1848365 Pace Project No.: 60474211 Pace Analytical Services Kansas

9608 Loiret Boulevard, Leneva, KS 66219
Aransao Cerlification, # 89-00579
Colorado Division of Oil and Public Safety
Illinois Certification # 20003020236
Iwa Cerfification # 118
Kansas Field aboratory Certification #: E-92587
Kansas NELAP Certification #: E-10116

Louisiana Certification #: 03055 Missou Intogratio Dinking Water Certification Nevdat Certification #: K5000712024-1 Oklahoma Certification #: 2023-073 Texas Certification #: T500021022-17 Ush Certification #: K500021022-17

REPORT OF LABORATORY ANALYSIS

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Page 2 of 11

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SAMPLE SUMMARY

Project: L1848365 Pace Project No.: 60474211

Lab ID	Sample ID	Matrix	Date Collected Date Received	Date Received
60474211001	VP-51	Water	04/16/25 06:38	05/01/25 10:00

Pace Analydeat Services, LLC 9608 Loiret Blvd Lenexa, KS 96219 (913)599-5665

SAMPLE ANALYTE COUNT

Project: L1848365 Pace Project No.: 60474211

Laboratory	PASI-K
Analytes Reported	-
Analysts	Σ
Method	EPA 1664A
Sample ID	VP-51
Lab ID	60474211001

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

L1848365	60474211
Project:	Pace Project No:

Lab ID: 60474211001 Collected: 04/16/25 06:38 Received: 05/01/25 10:00 Matrix: Water Sample: VP-51

占 Report Limit MDL Analytical Method: EPA 1664A Pace Analytical Services - Kansas City Units Results Parameters HEM, Oil and Grease

Prepared Analyzed CAS No. Qual

16 1 62 ND mg/L

Oil and Grease

05/14/25 11:00

Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 68219 (913)539-5665

QUALITY CONTROL DATA

Project: L1848365 Pace Project No : 60474211

QC Batch: 934948		Analysis Method:		EPA 1664A		
QC Batch Method: EPA 1664A		Analysis Description:		1664 HEM, Oil and Grease	l Grease	
Associated Lab Samples: 60474211001	211001	Laboratory:	Pace	Analytical Se	Pace Analytical Services - Kansas City	
METHOD BLANK: 3705422		Matrix: Water	La			
Associated Lab Samples: 604/4211001	7100172 21100172	Blank Re	Reporting	į		;
raiaillelel	Sillo		LIMIT	MDL	Analyzed	Qualifiers
Oil and Grease	mg/L	ON	5.0	13	1.3 05/14/25 10:58	

Units Conc.	c. Result	LCS % Rec	% Rec Limits	Qualifiers
mg/L	40 31.3	78	78-114	

ALKIA SPIKE SAMPLE:	3705424						
		60474191002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc	Result	% Rec	Limits	Qualifiers
il and Grease	ll/om	S	30.0	27.0	100	1 2	

IPLE DUPLICATE: 3705425						
		60474203002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
d Grease	T/6Ш	2	QV		8,	

REPORT OF LABORATORY ANALYSIS

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Date: 05/15/2025 08:11 AM

REPORT OF LABORATORY ANALYSIS

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Page 6 of 11

Date: 05/15/2025 08:11 AM



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QUALIFIERS

Pace Project No : 60474211

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot,

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit,

MDL - Adjusted Method Detection Limit

PQL. Practical Quantitation Limit.
RL. Reporting Limit. The lowest concentration value that meets project requirements for quantitative data with known precision and base for a specific analyte in a specific matrix.
S. Surrogate
S. Surrogate
1.2. Dephenythydractane decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference

NC - Not Calculable

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Nationage and cannot be separated from Diphernylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported issults are not founded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as Tigal may vary slightly from the sum of the reported component parameters.

Place Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analydical Services, LLC 9608 Loirat Blvd Lenexa, KS 66219 (913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

L1848365 Project:

Pace Project No.: 60474211

٥	Sample ID	QC Batch Method	QC Batch	QC Batch Analytical Method	Batch
1001	VP-51	EPA 1664A	934948		

REPORT OF LABORATORY ANALYSIS

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Date: 05/15/2025 08:11 AM

Page 8 of 11

DC#_Title: ENV-FRM-LENE-0009_	Effective Date: 01
DC#_Title: ENV-	Revision: 2
Baro	Mild Tribbase

S0474211

MO#:60474	≡	
ISWAY	ISWAY	
	01/12/20	
g samp		

Clay □ PEX □ ECl □ Pace □ Xroads □ Client □ Other □ Other 🗆 Pace Shipping Label Used? Yes □ No ⊡ 60474211 None racking Material: Bubble Wrap \(\overline{\chi} \) Bubble Wrap \(\overline{\chi} \) Bubble Bags \(\overline{\chi} \) Foam \(\overline{\chi} \) Courier: FedEx & UPS UA Tracking #: 74 5 7 9 22) 7516 Client Name: Pale National

Thermometer Used: T30 Type of fee: ((a) Blue None Cooler Temperature (*C): As-read (-7 Corr. Factor 50- Corrected |-8 emperature should be above freezing to 6°C

Date and initials of persons/1/25

Chain of Gustody present:	SAL DAG CAN		
Chain of Custody relinquished:	Takes One Diva		
Samples arrived within holiding time:	The Eles Toke DNIA	THE ENG DINA CONT OF HOLD	
Short Hold Time analyses (<72hr):	O'Yes SA's DNA		
Rush Turn Around Time requested:	Oves Takes		
Sufficient volume:	EKS ON ONA		
Correct containers used:	Toples One On's		
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☐Yss ☐No ☐Nu List sample IDs, volumes, lot #'s of preservative and the date/time added. Wes DNo DNA The ONO ON'A TYes ONO SALA Oves One Salva Ses DNo DNA DYes Dr. ONA preserved 5035A / TX1005/1006 soils frozen in 48hrs? mples contain multiple phases? Matrix; Containers requiring pH preservation in compliance? HWO, 4-RSO, HOCz, NeoPHS Suffice, NeOHS 10 Cyanide, Exceptions: VOA, Meco, QSG, KS TPH, OK-DRO) Cyanida water sample checks. mple labels match COC: Date / time / ID / analyses Itered volume received for dissolved tests?

Oves The Shua Dires Ono ONA □Yes □No IN.A Additional labels attached to 5035A / TX1005 vials in the field? Oves One AA □Yes □No O'Yes ONo Lead acetate strip lums dank? (Record only) Potassium lodide test strip tums blue/purple? (Preserve) State mples from USDA Regulated Area: sadspace in VQA vials (>6mm): Trip Blank present

Copy COC to Client? Y / N Date/Time: Client Notification/ Resolution: Person Contacted:

Field Data Required?

Comments/ Resolution:

Project Manager Review:

Date:

Qualtrax Document ID: 30468

Page 9 of 11 Page 1 of 1

Sub-Contract Chain of Custody

Batch Date Flore, M. P. 3, 12-45. Sub-Contract balon VIDES. Address: New Long, Berlinson

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Face Analytical ANALYTICAL REPORT

Enviro-Ag Engineering

L1850845	04/23/2025	VOLLEMORS PROCESSING	Pollutant Permit
Sample Delivery Group:	Samples Received:	Project Number:	Description:

3404 Airway Blvd. Jourdan Mullin Report To:

Amarillo, TX 79118

VOLLEMONS PROCESSING

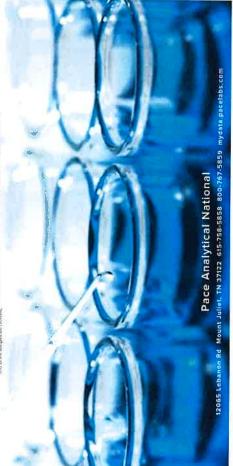
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Entire Report Reviewed By: Douly 7 Shuts

Dorothy P Roberts Project Manager



PAGE: 2 of 43

DATE/TIME: 05/20/25 10 02

SDG. L1850845

PROJECT: VOLLEMORS PROCESSING

ACCOUNT:

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DATE/TIME: 05/20/25 10 02

SDG L185C845

PROJECT: VOLLEMORS PROCESSING

ACCOUNT ETVID-Ag Engineering

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Gravimetric Analysis by Method 2540D	മ
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Sc. Sample Chain of Custody

SAMPLE SUMMARY

Collected by

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L1850845 L1850845-01			Coley Mulli	04/20/25 07:40	04/23/25 11 50	150
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			date/time	date/tme		
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Calculated Results	WG2503169	11	05/01/25 15 58	55/01/25 15:58	5A6	Mt Julie, IN
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Grawmetric Analysis by Method 254GD	WG2458604	·	04 24/25 03:47	04/24/25 C4 35	ICO	Allen TX
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Wet Chemistry by Method 300 0	WG7497949	-	04 23/25 14:57	04/23/25 14 57	JBS	Allen, TX
Wet Chemistry by Method 300 0	WG2458755	0.	04 24/25 11:57	04/24/25 11:57	JBS	Allen, TX
Wet Chemistry by Method 300.0	WC2458755	2	04 24/25 15:18	04/24/25 15:18	JBS	Allen, TX
Wet Chemistry by Method 300 0	WG2498755	200	04.24/25 12:59	04/24/25 12:59	ZB.	Allen TX
Wet Chemistry by Method 3500Ci-8	WG2458758	-	04 24/25 13:56	04/24/25 13:55	SMC	Allen, TX
Wet Chemistry by Method 351 2	WG2501622	25	04 28/25 17:35	04/28/25 20:10	913	Allen, TX
Writ Chemistry by Method 350 1	WG2458722	-	04 24/25 09 47	04/24/25 08 47	MP	All=n, TX
Wet Chem stry by I/ethod 4500Cl G-2011	W62498942	-	04 28/25 10:51	04/28/25 10:51	JAS	Mt Julier, TN
Wet Chem stry by Method 4500CN-E	WC2458760		04 25/25 0:15	34/25,25 15/01	SMC	Allen TX
Wet Chemistry by Method 4500CN-G	WE2498760	-	04/25/25 15/01	04/25/25 15:01	SMC	Allen, TX
Wet Chemistry by Method 4500P-E	WC2501568	20	04/28/25 16 20	04/28/25 16 20	SMC	Allen TX
Wet Chemistry by Method 52*0 B-2016	WG2497752	-	04/23/25 15:25	04/28/25 09:45	MP	Allen TX
Wet Chemistry by Method 52:0 B-2016	WG2497754	-	04/23/25 16:29	34/28/25 10:41	MP	Allen, TX
Wet Chemistry by Method 5220D	WGZ498781	7	04.24/25 10:36	34/24/25 13 18	AP	Allen, TX
Wet Chemistry by Method 5310C	WC2501685	20	04/28/25 17:29	04/28/25 (7:29	913	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG2499641	-	04,25/25 09:30	04/25/25 09:30	ZKW	Allen, TX
Wet Chem stry by Method SM4500NH2H	WC2498775	ın	04/24/25 14:14	04/24/25 14:14	515	Allen, TX
Narcury by Method 2451	WG2498352	-	04 26/25 22:04	34/27/25 22:41	AKB	Mt Julie: TN
Matels (ICP) by Method 200 7	WC2503169	-	04 33/25 09 34	05/01/25 15:58	5AG	Mt Julier, IN
Subcontracted Analyses	WG2501824		05/19/25 00:00	05/19/25 00:00	113	Lenexa, 75 55219

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate pre-analysis, and with memorial specified ordering times, unless gualified or notated within the report. Where applicable, and WDI, LOD) and RDE, LOD) refuses reported for environmental samples have been corrected for the alixinon-factor used in the analysis. All Method and Barch Quality Corror of an eighther critical secretary where architectures are such that a non-conformance from or properly distilled within the second where architectures are a non-conformance from or properly distilled within the second security. Sayiny digital significance in editor, I affirm to the best of my knowledge, all public restantives establis. Sayiny digital significance helder, I affirm to the best of my quality of the data have been demantied by the febrackoy, and no information or data have been knownedy withheld that would affect the quality of the data.

A G S S S A



Dorothy P Roberts Project Manager

Project Narrative

, Si

L1850845 -01 contains subout data that is included after the chain of custody

Sample Delivery Group (SDG) Narrative Analysis was filtered in the laboratory

ory	Project Sample ID 1850845	
Analysis was filtered in the laboratory.	-1 -1 ₀	
Analysis was f	Lab Sample ID L1850845-01	

Method 3500Cr-B

SDG: L1850945 PROJECT: VOLLEMORS PROCESSING

ACCOUNT: Enviro-Ag Engineering

DATE/TIME: 05/20/25 10:02

PAGE: 3 of 43

ACCOUNT: Envro-Ag Engineering

PROJECT: VOLLEMORS PROCESSING

SDG: L1850845

DATE/TIME: 05/20/25 10 02

PAGE:

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5 07:43		Result	0.00303	y Method 25	Result	П/дт	2720	y Method 25	Result	627	10d 2320B	Result	mg/l	0 300 pou	Result	rng/l	793	2 2	NO 8.44	10d 3500Cr-	Result	mg T	Q	10d 351.2	Result	202	10d 360,1	Result	0.940	od 4500Cl 6	Result	· 8	10d 4500CN	
L1850845 Collected date/time: 04/23/25 07:43	Calculated Results	Amalida	Chromium, Trivalent Oʻgaric Nitogen	Gravimetric Analysis by Method 2540C		Analyte	Total Dissolved ≦olids	Gravimetric Analysis by Method 2540D	de sires	spilot Solids	Wet Chemistry by Method 2320B		Analyte Alkalınty	Wet Chemistry by Method 300 0		Analyte	Chloride	Fluorice	Sulfate	Wet Chemistry by Method 3500Cr-B		Analyte	Chromium, Hexavalent	Wet Chemistry by Method 351.2	Analyte	Aprilia Nijagon, 14th	Wet Chemistry by Method 360,1	Amelia	Dissolved Oxygen	Wet Chemistry by Method 4500Cl G-2011	Analyte	Chlorine residual	Wet Chemistry by Method 4500CN-E	

PAGE: 5 of 43

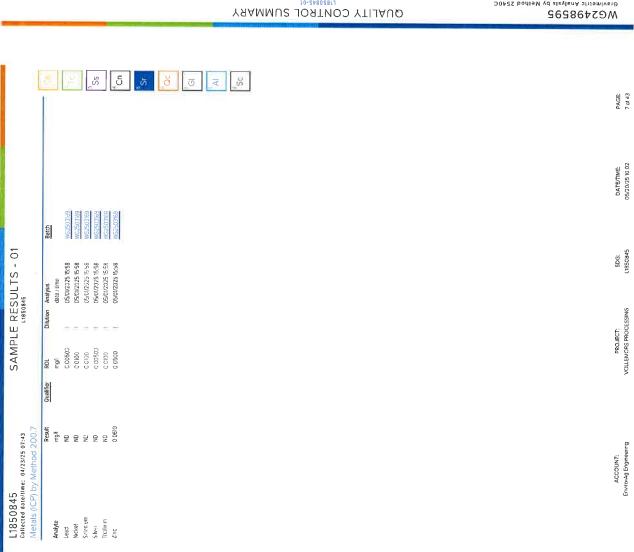
DATE/TIME: 05/20/25 10 02

SDG: L1850845

PROJECT: VOLLEMORS PROCESSING

ACCOUNT: Enviro-Ag Engineering

Wet Chemistry by Method 4500CN-G. Result 20 Result 20 Analyte mgt N0 Gyarde amanable N0 Wet Chemistry by Method 4500P-E. Result 00	od 45000	U-Z					
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yaride amenable Wet Chemistry by Meth	Result	Qualifier	PDL mg/l	Dilution	Analysis date / time	Batch	
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	od 4500F	Ψ					
do la de	Result	Oualifier	ROL	Daulier	Analysis	Batch	
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Analyte	l/gm		l/gm		date / time		
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Wet Chemistry by Method 5220D	od 52200						
Anslite	Result	Oualifier	ROL	Dilution		Batch	
COD	1690		041	*	04/24/2025 13:18	WG2458781	
Wet Chemistry by Method 5310C	od 5310C						
abyles opyres	Result	Qualifier	70 E	Dilution	Analysis	Batch	
TOC (Total Organic Carbon)	907		2 E	20	04/28/2025 17 29	WG2501685	
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Wet Chemistry by Method SM4500NH3H	od SM450	NONHBH					i
Analyte	Result mg/l	Oualiner	₽ Jg	Dilution	Analysis date / lime	Batch	
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Mercury by Method 245.1	Į.						
Analyte	Result	Oualifier	RDL mor/	Dilution	Analysis	Batch	i i
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Metals (ICP) by Method 2007	2007						
Analyte	Result	Oualifier	ROL mc/l	Dilution	Analysis	Batch	
Aluminum	0.535		0 200	-	05/01/2025 15:58	WG2503769	
Antimony	Q :		0.0100	-	05/01/2025 15:58	WG2503169	
Harilin	UN 7210		0,000		05/01/2025 15:58	WG2503159	
Beryllium	9		0 00200	-	05/01/2025 13.38	WGDGDGDG	
Codmium	QN		0.60200	÷	05/01/2025 15:58	WG2503169	
Chromium	9 9		0,0100	=1	05/01/2025 15:58	WG2503169	
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01 98. Z 13700 13400 Suspended Solids OUP Qualifier Limits Original Result DUP Result Dilution DUP RPD IS² (OS) FJ820834-04 04/54/52 04:32 · (DNb) 64502062-4 04/54/52 04:32 L1850534-04 Original Sample (OS) • Duplicate (DUP) Ol. 391 7200 7080 Suspended Solids y6ω Original Result DUP Result Dilution DUP RPD (SO) L1850934-03 04/24/25 04:35 (DUP) R4205062-3 04/24/25 04 35 L1850934-03 Original Sample (OS) • Duplicate (DUP) S 20 5 20 Suspended Solids **J/6w** IVB KDF MB MOL 19ilileuO BM (MB) R4205062-1 04/24/25 04:35 Method Blank (MB) Gravimetric Analysis by Method 2540D QUALITY CONTROL SUMMARY MG2498604



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LCS Qualifier

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Spike Amount LCS Result

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Rec. Limits LCS Qualifier

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LCS Rec

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Spike Amount LCS Result

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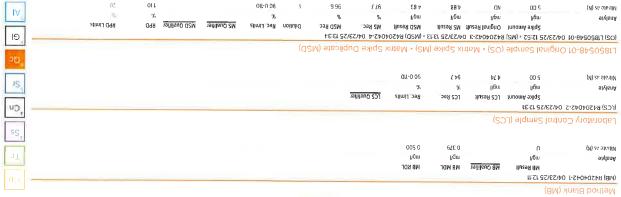
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(FC2) 84506154-2 04/28/25 09:26 Laboratory Control Sample (LCS)

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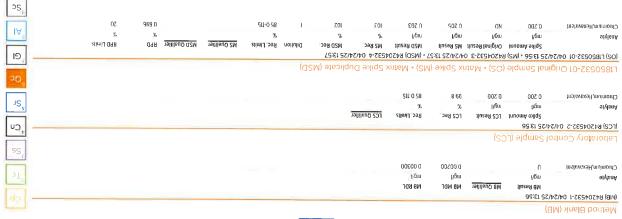
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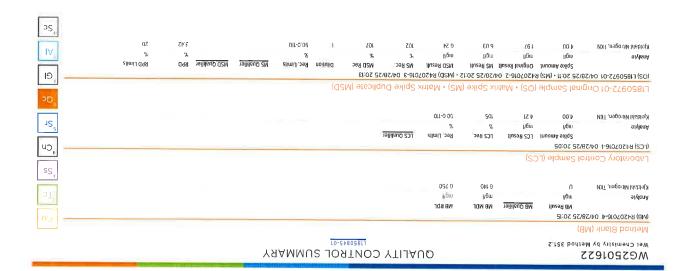
	0001 201000	30802311	VOLLEMORS PROCESSING	inviro-Aq Engineering
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	الاسا ر ۱۹۹ ۶ چ 05	0 586 % 8 60	MSD Qualifier	MS Qualified	Rec Limits % 90.0-10	Dilulion	96.3 WSD Rec 5.338	996 % SARSM 548-7 O4/24/2	9 2 9 MSD Result MSD Result MSD Result	1/24/25 12:10 1/6m 1/6m 1/6m	4204546.0 Odginal Result Pigro 148	S 11:57 • (MS) R: Spike Amounl Su 0	0163/50 10-2480245-01 04/24/2
os.	RPD Limits % 05	ወዋЯ % 725.0	MSD Qualifier	Zoùalifier Gualifier	Rec Limits % 90 0-110	nouulid 002	64 € W2D Kec 52 11:3€	9 56 % W2 Kec 248-2 Od/Sd/3	• (MSD) Result INSD Result IIIg/l 3390	3450 W2 Besnii W2 Besnii	94204548-4 0 Odginal Resull 1030	4 (ZM) • 42:01 Z Jnuom 4 skiq Z Wgm 002 Z	Chbiide Childie Childe
G								LCS Qualifier	Rec. Limils 90 0-110 90 0-110 91 0-110	201 S21 % 201 106 106	788 11 88 88 9 9 9	S 00 5 00 5 00 5 00	Analyte Chloride Hivoride Sulfate
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d JT				.	IAMMU		CONTR	YTIJA	u∂u IMB KDIT	₩B WDF	nahillen O 8M	0 000 poi	(MB) 84504248-3 04/54/5 Met Chemisty by Meth MC5468722

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QUALITY CONTROL SUMMARY LISSOBAS-01 Allcate (DUP)

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W.G.24987222

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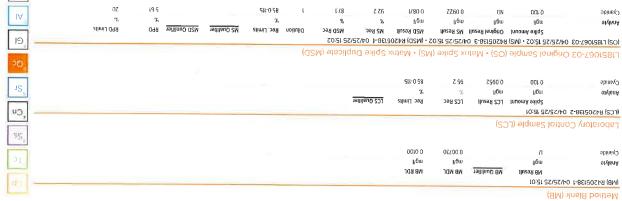
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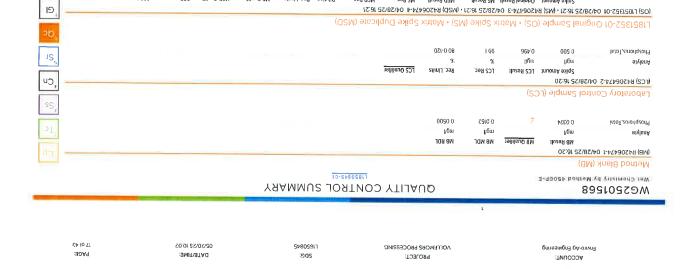
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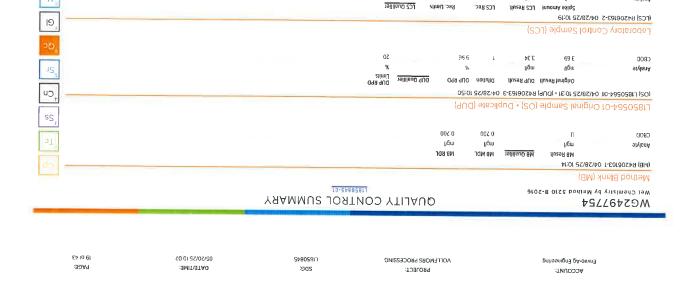
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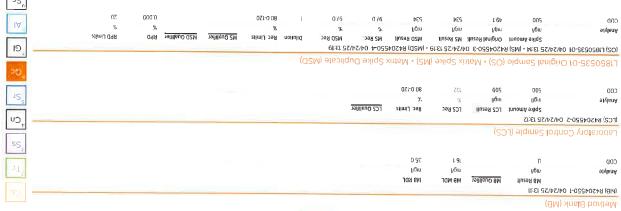
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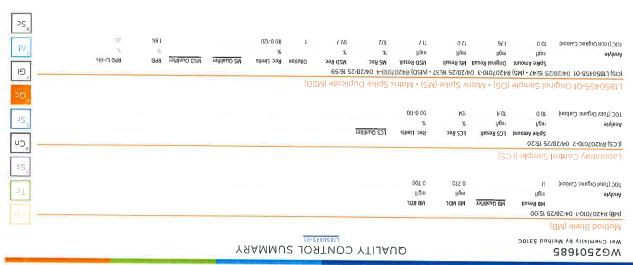
QUALITY CONTROL SUMMARY

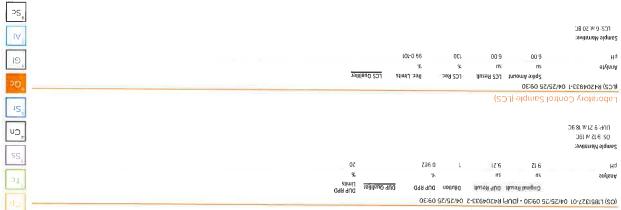
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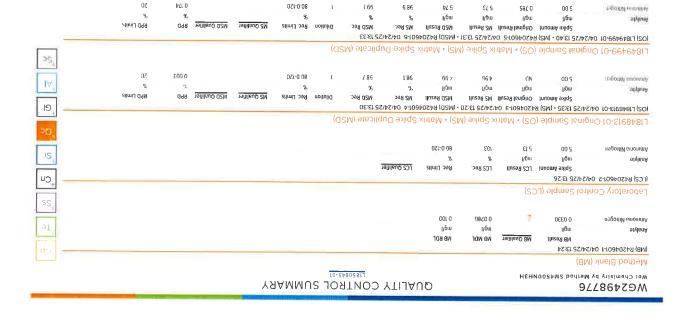
Met Chemistry by Method 5220D











VOLLEMORS PROCESSING

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10-54805817 QUALITY CONTROL SUMMARY

Mercury by Method 245,1 MC5498352

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Metals (ICP) by Method 200 7 MG2503169

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QUALITY CONTROL SUMMARY

Metals (ICP) by Method 200 7 MC2503169

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QUALITY CONTROL SUMMARY

Metals (ICP) by Method 200 7 MG2503169

L1850890-02 Oliginal Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

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GLOSSARY OF TERMS

	intended as a comprehensive explanation, and if you have additional missions of passes contact your representative.
Results Disclanner - Int Semple ID. Semple Ma Sempling Lossian Res	Faults Osciame information that includes the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condemnment of the condem
Abbreviations an	and Definitions
MDL	Method Detection Limit
ND	Not detected at the Reporting Limit (or MDL where applicable)
RDL	Reported Detection Limit
Rec.	Recovery
RPD	Relative Percent Difference
SDG	Sample Delivery Group
_	Not detected at the Reporting Limit (or MDL where applicable)
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilutan	If the sample matrix contains an into temp supprint the sample propartition solution or weight while other than the Mantain of into temperaturouns of an average that have than the ingress that of consecutation that he would show that the sample may be dutted for each size if a value differentiation is used in this field, the result reported has already to dead for pack and action of the sample may be dutted for each size of the sample may be dutted for each size of the sample may be dutted for each size of the sample may be dutted for each size of the sample may be such that the sample may be dutted for each size of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample may be such as a sample of the sample of the sample may be such as a sample of the sample of the sample may be such as a sample of the sample of the sample may be such as a sample of the sample of the sample may be such as a sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample of the sample
Limits	These are the larget system evy ranges or its difference value that the laboratory has historically determined as normal for the methor and always to be upon the professful QC Sample analysis will sayed all analyses recovered or obtained within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included vaithin the reported SDG.
Qualmer	This column provides a letter and for number designation that consponds to additional information concerning the result repared. It is Dutalities is present a definition per Dutalities provided when the Globary and Definitions page and potentially a discussions of procede-marketors of this Julifier in the Case Nathole if applicable.
Result	The crust analyses that result (constact for any sample specific characteristics) reported to you sample. If there was no revealable result from mod to a specific directly constituting the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of t
Uncertainty (Radiochemistry)	Confidence level of 2 sigma
Case Narrative (Cn)	A barel discussion about the included sample results, including a discussion of any non-conformatices to protocol observed entering the sample resolute by a facility to educate above of severable resolute to the facility the facility of the sample facility for educate the facility of the sample facility for educate the resolution for any other qualities, seed in the report.
Quality Control Summary (Qc)	This extent of the report includes the results of the laboratory quality control analyses required by procedure or antifactal methods to soster a evaluating the cellifty of this results tendented by vox samples. These analyses are not being performed on your samples. These shocked, but no laboratory and interest on your samples by cellifty, but on laboratory and interest out the control of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellification of the cellificati
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were inhalfy collected. This is used to varify the time and does of collection, the books collecting this caracter, and the markets and that the laboratory is requisited to perform. This stand is custody also documented at the collection that have had control or perform. This samples from the time of collection until delivery to the laboratory for whates.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample for an expensional by the emphasize expensional by the emphasize provided any ample fine of each analysis section for each analysis section for each analysis section for each analysis section for each analysis section for each analysis section for each analysis section for each analysis section for each analysis.
Capture Summary (Sc)	This section of the Analytical Report defines the specific analyses performed for each sample ID including the dates and

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Alaska	17-026	Nevada	TN0000032021-1
Anzona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN902
California	2932	New Mexico "	TN00003
Colorado	TNGCOD3	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina	DW21704
Georgia	NELAP	North Carolina	4
Georgia	923	North Dakota	R-140
Idaho	TNOODO3	Ohio-VAP	CL0069
llinois	200008	ОМарота	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	58-02979
Kamsas	E-10277	Rhode Island	LA000356
Kentucky 15	KY90010	South Carolina	34004002
Kentucky 2	16	South Dakata	n/a
Louisiana	Al30792	Tennessee +	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN0G0G3	Texas	LABO152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN03a	Vermont	V72006
Michigan	8966	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
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Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	F1038R
Florida	E87118	Texas	T104704232-73-39
lowa	408	Oklahoma	7778
Louislana	30686		i

Drinking Nater ** Underground Sonage Tanks ** Aqualic Toxicty ** Chemical Microbological ** Nater ** Visatewater nia Accreditation not applicable ** Accreditation on a positional particles to the second special particles to the state herebook special do neath according to a configuration held by Poez halfycia.

PAGE

DATE/TIME: 05/20/25 10 02

SDG: L1850845

PROJECT: VOLLEMOPS PROCESSING

Envioled Engineering ACCOUNT:

PAGE 29 of 43

DATE/TIME: 05/20/25 10:02

SDG: L185CS45

PROJECT: VOLLEMORS PROCESSING

ACCOUNT: Offs (D-M) Edginhering

The identification of the analyte is acceptable; the reported value is an estimate.

Test replicates show more than 30% difference between high and low situes.

RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Sample(s) received past/too close to holding time expiration.

Description

Qualifier

Received on ice: Wet of 8lue | No ice | Received of Contection Factor of Recorded Of Correction Factor of Actual)

Receiving Lab 1 Thermometer Used: 16-31 Context Temp °C: 1, 9 (Recorded) To: 1 (Correction Factor) A (Actual) Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable.

Triage Person: ANA A Date: 4/33/28 Shannan PS

Sufficient Volume received PS (Соттестоп Factor) Page 1 of 1 DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt Yes & No 0 aft Worth accorpus Christi a Austin Client Name: CAVICO AG Endin LECTIVA Project Work order (place label): Courier: Fedexa UPSa USPSa Clent (Liba PACE Other: Yes O No O NA P Yes O No O NA D Yes O No O NAZ Yes Z No D NA D Yes O No O NA Yes D No D NA Z Yes O No O NA.Z (Recorded) Sample Condition Upon Receipt Yes No 🗅 Yes of No Yes A No a Yes 🗆 No 🗈 Yes 🗆 No 🗷 Cooler Temp °C:_ Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCP VOA or PST Program TPH) Project sampled in USDA Regulated Area outside of Texas Unpreserved 5035A soil frozen within 48 hrs Date: Effective Date: 12/18/2023 Custody Seal on Cooler/Box: Yes □ No A Sampler name & signature on COC Sample pH Acceptable
pH Strips: (HOBCCC)
Residual Chlorine Present
Cl Strips: Labeling Person (if different than log-in): Receiving Lab 2 Thermometer Used: Chain of Custody relinquished Lead Acetate Strips:_ Short HT analyses (<72 hrs) Headspace in VOA (>6mm) Correct Container used State Sampled: Non-Conformance(s): Container Intact Sulfide Present Qualitax ID: 48806 Pace Login Person:

Enviro-Ag Engineering			Bryan f			Pres Chk	道	100	10-11	Analysis	Contra	inne / Depsam	A But	Chain of C	Custody Page Let
3404 Alrway Blvd. Amarillo, TX 79118			3404 Alrway Blvd. Amarillo, TX 79118					12504	LA.		U ==		1950015.04	1-1	Pace.
Report to: Jourdan Mullin 254-965-3500			Email To: cmullin@enviroag.com;rgqorge@enviroa			er com:		AddH	loPre	Şē.		1 1.	.1850845-01	118	SALLEN, TX 5
Project Description: Polititant Permit		City/State Collected:			Please C	ircle:		DPE	DPE4	28				ezentiken er	ng fision tiphe 200 miles. (In 752 m 200 pla we this element contents transferige ent entire trappent est d'Entre francisco
Regulatory Program(DOD, ACHA, DW, etc):	Cilent Projec	t #		Lah Project II	7.1 1811	CI E)		-Jung	HIWO	125mlHDPE-NoPres		100	ALL800	serme per	talific community/populations
Collected by (print) Collected Mullin Collected by (Sengture):	Site/Facility I	nens 1	Co Cash	P.O. #			Ю	3 TKN 50	3, DO 50					SOG #	
mmediately	Rush? (Lab MUST De JayFive ay 5 Day y 10 De	Notified) Day (Rad Doly)	Quote # Date Result	s Needed	_	OGHEX 11-CIF-WT-HCI	Wetchem COD,NH3 TKN 500mlHDPE-Add H2SO	WetChem CR6, CR3, DO 500mIHDPE-NoPres	anioins,pH				Template Prelogin:	DSENVIGDTX T258910 P1144015
Sample ID	Three C	Matrix •	At Depth	Date	Time	No. of Cotrs	GHEX 11	etChem	etChem	WetChem		in i			9 25 CAN
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Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)599-5665

May 16, 2025

Jimmy Huckaba

RE: Project: L1850845 Pace Project No.: 60474683

Dear Jimmy Huckaba:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNINELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cheiso From

Allison Sherman allison sherman@pacelabs.com (913)599-5665 PM Lab Management

Endosures

cc: MTJLSuboutTeam, Pace Analytical National



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CERTIFICATIONS

L1850845 Pace Project No.: 60474683

Pace Analytical Services Kansas
9008 Loiret Boulevard, Lenexa, KS 66219
4 Kransas Certification #: 86-00579
Colorado Division of Oil and Public Salety
Illinois Certification #: 116
Iowa Certification #: 116
Kansas Field Laboratory Certification #: E-92587
Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Missouri Inorganio Drinking Water Certification Nevada Certification # Kiso00212024-1 Okahoma Certification # 2022-073 Texas Certification # 1104704407-23-17 Ulah Certification # KS000212022-13

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SAMPLE SUMMARY

Project: L1850845 Pace Project No : 60474683

Cab ID	Sample ID	Matrix	Date Collected	Date Received
60474683001	VP-S2	Water	04/23/25 07:43	05/06/25 09:30

Pace Analytical Services, LLC 9608 Loiret Bivd Lenexa, KS 66219 (913)599-5665

SAMPLE ANALYTE COUNT

Project: L1850845 Pace Project No : 60474683

Cl del	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60474683001	VP-S2	EPA 1664A	\$	-	PASI-K
PASI-K = Pace A	PASI-K = Pace Analytical Services - Kansas City				

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ANALYTICAL RESULTS

L1850845	74683
L1	604
oject:	Project No.
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Project: L Pace Project No: 6

Sample: VP-S2	Lab ID:	60474583001	Collected:	04/23/25	07:43	Received:	Lab ID: 60474683001 Collected: 04/23/25 07:43 Received: 05/06/25 09:30 Matrix: Water	Matrix: Water	
Parameters	Results Units	Units	Report Limit	MDL	占	Prepared	Analyzed	Report Limit MDL DF Prepared Analyzed CAS No. Qual	Qual
HEM, Oil and Grease	Analytical Pace Anal	Analytical Method: EPA 1664A Pace Analytical Services - Kansas City	564A Kansas City						
Oil and Grease	Q	ND mg/L	6.2	16	-		05/16/25 10:34	:34	

Pace Analydical Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)599-5965

QUALITY CONTROL DATA

L1850845	60474683
Project:	Pace Project No.:

QC Batch:	935281		Analysis Method:	thod:	EPA 1564A		
QC Batch Method:	EPA 1664A		Analysis Description:	scription:	1664 HEM, Oil and Grease	nd Grease	
:			Laboratory:		Pace Analytical S	Pace Analytical Services - Kansas City	
Associated Lab San	Associated Lab Samples: 60474683001						
METHOD BLANK: 3706962	3706962		Matrix:	Matrix: Water			
Associated Lab Sarr	Associated Lab Samples: 60474683001						
Parameter	eter	Units	Blank Result	Reporting Limit	MOL	Analyzed	Qualifiers
Oil and Grease		mg/L	Q	ın	5.0	1.3 05/16/25 10:23	
LABORATORY CON	LABORATORY CONTROL SAMPLE: 3706963	16963					
			Spike	SOT	CS	% Rec	
Parameter	eter	Units		Pacult	0% Do	Jenste O. Stanta	

Parameter	Units	Spike	LCS Result	LCS % Rec	% Rec Limits	Qualifiers	
Oil and Grease	mg/L	40	34.0	35	78-114		
MATRIX SPIKE SAMPLE:	3706967						
Parameter	Units	60474424001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	∏⁄6m	42	8 39.2	64.7	999	78-114 M1	M.

SAMPLE DUPLICALE. SYNDSOS						
		60474426001	Oup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers

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Date: 05/16/2025 05:29 PM

REPORT OF LABORATORY ANALYSIS

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

L1850845 Project:

60474683 Pace Project No:

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. MDL - Adjusted Method Detection Limit

PQL - Practical Quantitation Limit

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1.2-Diphenylaratine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Natrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not deflected

N-Nitrosoutphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for death airwhyle is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "fotal" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Ξ

Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Date: 05/16/2025 05:29 PM



Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

L1850845 Project: L1850845 Pace Project No.: 60474683

Lab 10	Sample ID	QC Batch Method	QC Batch	QC Batch Analytical Method	Analytical Batch
60474683001	VP-S2	EPA 1664A	935281		ĺ

REPORT OF LABORATORY ANALYSIS

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DC#_Ti	Revision
Pace	MANTE STREET

tle: ENV-FRM-LENE-0009_Samp WO#: 60474683

Effective Date: 01/12/20:

Client Name: Pale National

Pace ☐ Xroads ☐ Client ☐ Other ☐ Pace Shipping Label Used? Yes a No 교 Seals intact: Yes 🗹 No 🗆 Clay □ PEX □ ECI □ Courier: Fedex of UPS VIA D Tracking #: 4439 2457 5008

Bubble Wrap (4) Bubble Bags (5) Custody Seal on Cooler/Box Present: Yes ☑ No □ Thermometer Used: T30 Packing Material:

None 🗆 Type of Ice: Wer Blue None

Corr. Factor 16 v Corrected 1.8 Cooler Temperature (°C): As-read (\) Temperature should be above freezing to 6°C

Date and initials of person \$225 examining contents: TA

Other 🗆

Роаш □

Chain of Custody present:	CAYes ONO DNA	NA
Chain of Custody relinquished:	OKes ONo	□N/A
Samples arrived within holding time:	Eres ONO ONA	INA
Short Hold Time analyses (<72hr):	Dives 15% C	□N/A
Rush Turn Around Time requested:	Oves DA C	ONA
Sufficient volume:	ØKes □no □nvA	INA
Correct containers used:	Offes One	ANA
Pace containers used:	[ZYes □No □	DNA
Containers intact:	Mres Ono	□N⊬A
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	D'Yes DNo CAVA	NIA
Filtered volume received for dissolved tests?	□Yes □No 89	Efina
Sample labels match COC: Date / time / ID / analyses	SYes One	□N/A
Samples contain multiple phases? Matrix: VV	□Yes ISTNo □N/A	NIA
Containers requiring pH preservation in compliance? (HNO), H ₂ SO ₄ , HCI+2, NaOH-9 Sulfide, NaOH-10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	☐Yes ☐No (Q	区心 List sample IDs, volumes, lot #'s of preservative and the date/lime added.
Cyanide water sample checks:		
Lead acetate strip tums dark? (Record only)	Oyes Ono	
Potassium iodide test strip lums blue/purple? (Preserve)	DYes DNo	
Trip Blank present:	D'Yes DNo CANA	en.
Headspace in VOA vials (>6mm):	O'Yes ONO BAWA	WA
Samples from USDA Regulated Area: State:	□ves □No (EX	© Nu A
Additional labels attached to 5035A / TX1005 vials in the field? □v⇔ □No CAva	Oves One	UA
Client Notification/ Resolution: Copy COC to Client?	Client? Y / N	Field Data Required? Y / N

Comments/ Resolution: Person Contacted:

Date/Time:

Project Manager Review:

Qualtrax Document ID: 30468

Date:

Page 1 of 1

12065 Lebanon Rd Mt. Julie, TW 7122 Phone (615) 73-9756 Fay (615) 758-5859 Method Sample Number Comments Pace Analytical 1664A 1, L1850845-01 Retinquished by: 25-27 Received by (Billiell 764 & Rick Date 5/16 9/20 @ 1. 8 WD: WG2801824 Email: WITI/Subout tening pacelabs com Realis Due Date 05.00 25 ESC Purchase Order et 11.870845 Send Reports 10: James C Huckaba Oil & Grease (Hexane Extr) Sub-Contract Chain of Custody Matrix State Collect Date Description ww TX 04/23/25 Date Date. VP-S2 LC-In-VT-HC1 - S5143063 - WW TX 01:43125 S143063 - S5143063 - S5143063 - Container used for multiple Samples and or Analyses Barch DaterTimes 04:29:23 (24) Sub-Contract Lab-PACELXS Addreys, 9603 Loren Bankwad Caty, State Larson, KS 00:219 Contact: Alfson Storman - Poculate, com Outnor List: PACEMT/IL Antieron: USOS Lebrason Bd. City State: M. Julier, TN 37122 Pinent; (615) 773-9756. Fax: (615) 773-9756. Sample ID Container ID Retinquished by: Received by:

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Pace® Analytical Services, LLC



Pace Analytical ANALYTICAL REPORT May 29. 2025

Enviro-Ag Engineering

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Project Number: Samples Received: Sample Delivery Group: 04/30/2025 L1853355

Pollutant Permit VOLLEMANS PROCESSING

Description:

3404 Airway Blvd Amarillo, TX 79118

Jourdan Mullin

Report To:

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Entire Report Reviewed By: Tony ? Downts

Dorothy P Roberts Project Manager

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ACCOUNT

Envis-Ag Engineering

PROJECT: VOLLEMANS PROCESSING

SDG LI853355

DATE/TIME: 05/29/25 I6 27

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ACCOUNT:

PROJECT: VOLLEMANS PROCESSING

SDG|

DATE/TIME: 05/29/25 16 27

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TABLE OF CONTENTS

Sc: Sample Chain of Custody	Al: Accreditations & Locations	Gl: Glossary of Terms	Metals (ICP) by Method 200.7	Mercury by Method 245.1	Wet Chemistry by Method SM4500NH3H	Wet Chemistry by Method SM 4500-H+B	Wet Chemistry by Method 5310C	Wet Chemistry by Method 5220D	Wet Chemistry by Method 5210 B-2016	Wet Chemistry by Method 4500P-E	Wet Chemistry by Method 4500CN-E	Wet Chemistry by Method 4500Ct G-2011	Wet Chemistry by Method 350.1	Wor Chemistry by Method 351.2	Wet Chemistry by Method 3500Cr-B	Wat Chemistry by Method 300,0	Wet Chemistry by Method 23208	Gravimetric Analysis by Method 2540D	Gravimetric Analysis by Method 25400	Oc: Quality Control Summary	VP-53 L1853355-01	Sr. Sample Results	Cn: Case Narrative	Ss: Sample Summary	To Table of Contents	Cai Cover Page	
ω,	30	29	27	26	25	24	23	22	20	19	18	17	16	15	14	11	10	9	ω	00	U	U	4	ω	2	-	

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SAMPLE SUMMARY

VP-53 L1853355-01			Corey Mulli	C4/30/25 08/38	04/30/25 12 37	37
Method	Batch	Diffetion	Preparation	Analysis	Analyst	Location
			daterlinie	dateAlme		
Calculated Results	WG2504311	-	05/32/25 17:8	05/02/25 17:18	īJC	Allen, TX
Calculated Pesuits	WC2508289		05/08/25 00 50	25/08/25 00 50	MAP	Mt Juliet (N
Gravinetric Analysis by Method 25400	WG2505459	-	05/02/25 12/49	05/02 25 15 38	001	Allen TX
Gravimetric Arialysis by Method 25400	WG2504819	-	05/01/25 14:35	05/01/25 15 34	OUT	Allen TX
Wet Chain stry by Method 2320B	WGZ506364	_	05/05/25 10:09	05/05 25 10/09	₽	Allen, TX
Wet Chemistry by Method 300 0	WG2503648	0	04/30/25 19:25	04/30/25 19:25	BS	Allen, TX
Wet Chemistry by Method 300 0	WG2503899	_	05/01/25 11:43	05/01/25 11:43	S8.	Allen, TX
Wet Chamistry by Method 300 0	WG2503899	5	05/01/25 12:37	05/01/25 12:37	SBC	Allen, TX
Wet Chemistry by Method 300 0	WG2505409	100	05/06/25 09:40	05/06/25 09:40	S8.	Allen, TX
Wet Chemistry by Method 3500Ci-B	WG2506971	-	05/05/25 11:17	05/05/25 11:17	SMC	Allen, TX
Wet Chemistry by Method 351 2	WG2505222	25	05/02/25 15:48	05/02/25 17:18	응	Allen TX
Wet Chamistry by Method 350 f	WC2505203	_	05/02/25 09 07	05/02 25 09/07	SKV/	Allen, TX
Wet Chem stry by Method 4500016-2011	WG2503722	ທ	05/01/25 23:51	35/01/25 23 04	ARV	Mt Julie" TN
Wet Chem stry by Method 4500CX-8	WG2505182	-	05/02/25 11 49	35/02 25 14:38	SMC	Allen TX
Wet Chem stry by Method 4500CN-G	WG2505182		05/02/25 14:38	05/02/25 14 38	SMC	Allen, TX
Wet Chemistry by Method 4500P-E	WG2504260	20	05/01/25 14:47	05/01/25 14:47	SMC	Allen_TX
Wet Chemistry by Method 5210 B-2016	WC25034C6	-	04/30/25 15:11	05/05/25 09:38	WAS	Allen_TX
Wet Chemistry by Method 5210 B-2016	WG2503420	-	04/30/25 16:19	05/05/25 10:25	SKW	Allen, TX
Wet Chemistry by Method 52200	WG2504323	7	05/21/25 10:20	05/01/25 13:42	M₽	Allen, TX
Wet Chemistry by Method 5310C	WG2504472	20	05/01/25 20:04	05/01/25 20:04	:EG	Allen, TX
Wet Chemistry by Method SM 45G0-H+8	WG2505202	_	05/02/25 09 10	05/02/25 09:10	MΡ	Allen TX
Wet Chemistry by Method SM4500NH3H	WG2504311	(r)	05/01/25 13/51	05/01/25 13:51	∃G	Allen TX
Mercury by Method 245.1	WC2503526	_	05/01/25 19:58	05/02 25 18:58	SDG	Mt Juliet TN
Matals (ICP) by Method 200 7	W€2508289	_	05/06/25 19/19	25,08/25 00:50	MAP	Mt Julie: TN
Subcontracted Analyses	WG2506928		05/29/75 00 00	05/29/25 00:00	ANF	Lenexa, 4S 56219

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOQ) and RDL (LOQ) such server the provided for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Contol are within exhallshad criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalics observed by the aboratory as having the potential to affect the quality of the data have been identified by the aboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

3, SS



Dorothy P Roberts Project Manager

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Project Narrative

L1853355 -01 contains subout data that is included after the chain of custody.

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Project Sample ID

VP-53

Method 3500Cr-B

DATE/TIME: 05/29/25 16 27

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Enviro-Ag Engineering ACCOUNT:

PROJECT: VOLLEMANS PROCESSING

SDG L1853355

DATE/TIME: 05/29/25 16:27

PAGE:

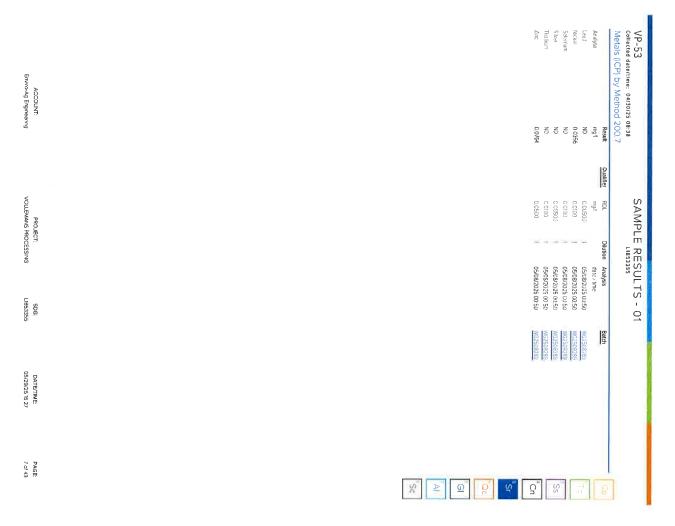
ACCOUNT: Enviro-Ag Engineering

PROJECT: VOLLEMANS PROCESSING

SDG LI853355

ACCOUNT:					Wet Chemistry by Method 4500CN-E		Chlorine residual	Analyte	Wet Chemistry by Method 4500Cl G-2011		Dissolved Oxygen	Analyte	Wet Chemistry by Method 360.1	Veltagi Minogen, IKN	Analyte		Wet Chemistry by Method 3512	Chromium, Hexavalent	Analyte	CE Chambay by	Wet Chemistry by Method 3500Cr8	Sulfate	Nitrate as (N)	Fluaride	Analyte		Wet Chemistry by Method 300 0	Alkalinity	Analyte	6- 6	Wet Chemistry by Method 2320B	Suspended Solids	Analyte	Gravimetric Analysis by Method 25400	A	Total Dissolved Solids	Analyte	Gravimetric Analysis by Method 2540C	u	Chromium,Trivalent	Analyte		Calculated Results	Collected date/time: 04/30/25 08:38	VP-53
	ě	N u	md i	Result	/lethod 45000	i	S	Result	Method 45000	1000	1.42	Result	/lethod 360.1	Q.	ng/l	Result	/lethod 3512	ND	mgil	Result	Method 35000	40 4	ND	N is	mg/l	Result	Method 300 0	767	mg/l	Decade	Method 23208	640	mg/l	s by Method		2240	mg/l	is by Method	ě	0 00747	(ign)	Result		30/25 08:38	
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	Copper	Chamium	Beryllium	Barium	Arsenic	Antimony	Aluminum	Analyte	the contract of	Metalori	Wercury	Analyte	Мегсигу		Ammania N trons	A sales	Wet Che	L185±355-	Sample Narrative:	1	Analyte		Wet Che		TOC Total Or		Wet Che	COD	Analyte		Wet Che	CBOD	800	Analyte	Wet Che		Phospharus, "otal	Analyte	Wet Che	Cande, amendone	Analyte		Wet Cho	Collected	<
La Contract									Ci) by meniod	Metals (ICP) by Method 200 7			Mercury by Method 245 1		STP STP		Wet Chemistry by Method SN	E1854355-01 WGZ505202: 7/7 8L18.1C	ative:				Wet Chemistry by Method SN		Analyte TOC (Total Organic Carbon)		Wet Chemistry by Method 53				Wet Chemistry by Method 52				Wet Chemistry by Method 52		otel		Wet Chemistry by Method 45	1902			Wet Chemistry by Method 45	Collected date/time: 04/30/25 08:38	

47-00 VI	Copper	Chromium	Cidmlum	Beryllium	Barium	Arsenic	Antimony	Aluminum	Analyte		Metals (ICP) by Method 200.7	welcoly	Arralyte		Mercury by Method 245 1	Ammonia N troge	Analyte	Wet Chemistry by Method SM4500NH3H	Sample Narrative: L1853355-01 WG2505202: 7.77 at 1810	PH	Analyte	Wet Chemistry by Method SM 4500-H+B	TOC (Total Organic Carbon)	Analyte	Wet Chemistry by Method 5310C	COD	Analyte	Wet Chemistry by Method 5220D	CBCJ	800	Analyte		Wet Chemistry by Method 5210 B-2016	Phospharus, "otal	Analyte	Wet Chemistry by Method 4500P-E	Cyaride,amenable	Analyte		VP-53 Collected date/time: 04/30/25 08:38 Wet Chemistry by Method 4500CN-G
NT.	S.	NO	N	ND	0.123	NO	N	0.524	ngA	Result	hod 200.7	ē	mgzi	Result	2451	13.3	mg/l	Method SM45	77 at 181C	7.77	Result	Aethod SM 45	343	Result	Aethod 5310C	172C	mg/ti	Nethod 52201	954	916	mg/l	Result	Method 5210 I	2.4	ng/	Method 4500I	S	mg/ll	Result	30/25 08:38 Method 4500
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3	05/08/2025 00:50	05/08/2025 00:50	05/08/2025 00:50	05/08/2025 00:50	05/08/2025 00:50	05/08/2025 00:50	05/08/2025 00:50	05/08/2025 00:50	date / time	Analysis		03/02/23/23 18:36	date, lime			05/01/2025 17:5	date / time)9:10 WE2505292	Batch		05/01/2025 20:04	Analysis		05/01/2025 13:47	n Analysis date / Ime		05/05/2025 10 25	05/05/2025 09:38	date / time	n Analysis		05/01/2025 14:47	date / time		05/02/2025 (11:38		n Analysis	1853355 L1853355
	WG2508289		Batch		DZGGGGZGA		Batch		WG2504311	i i						WG2504472	Batch		WG2504323	Batch		WG2503420	WG2503406		Batch		WG2504250	5000		WG2505182	1	Batch	-							
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ACCOUNT: Enviro-Ag Engineering

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e5 D-115

Suspended Solids

PROJECT: VOI LEMANS PROCESSING SDG: L1853355 DATE/TIME:

PAGE:

Wet Chemistry by Method 2320B				
Method Blank (MB) MB R209758-1 05/05/25 10:09 MB Result MB MDL MB RDL mg/l		Q		
MB R4209758-1 05/05/25 10:09	Wet Chemistry by	Method 2320B		<u>L1853355-01</u>
MB Result MB Qualifier MB MDL MB RDL MB RDL Analyle mg/l mg/l mg/l mg/l Alkalinity U 20.0 20.0 Cos L1853064-04 Original Sample COS Duplicate DUP Cos L1853064-04 Original Result Dup Result Dup Result Dup Rpb Dup Qualifier Limits Analyle mg/l mg/l "\s 245 20 Cos L2852064-05 Sample LCS Class Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos	Method Blank ((MB)		
Analyte mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	(MB) R4209758-1 05	5/05/25 10:09		L _p
Alkalinity U 20.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0				
Cos L1853064-04 Original Sample Cos Duplicate (DUP)			-	Tc
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Co Co Co Co Co Co Co Co				Ss
Original Result DUP Result DUP Result DUP RPD DUP Qualifier Climits	L1853064-04 C	Original Sample (OS)	Duplicate (DUP)	
Analyte mg/l mg/l % % % Alkalnity 270 277 1 2.45 20 Laboratory Control Sample (LCS) (LCS) R4209758-2 05/05/25 10:09 Spike Amount LCS Result LCS Rec. Limits LCS Qualifier Analyte mg/l mg/l % % Alkalnity 250 242 968 90 0-100	(OS) L1853064-04 O	5/05/25 10:09 · (DUP) R420	09758-3 05/05/25 10:09	Cn
Alkalnity 270 277 1 2.45 20 Laboratory Control Sample (LCS) (LCS) R4209758-2 05/05/25 10:09 Spike Amount LCS Result LCS Rec. Limits LCS Qualifier Analyle mg/l mg/l % % Alkalnity 250 242 968 90 0-110		Original Result DUP R	esult Dilution DUP RPD [DOP Gualifier
C C C C C C C C	Analyte	mg/l mg/l	ng.	%
Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia	Alkalinity	270 277	1 2.45	
CLCS R4209758-2 05/05/25 10:09 Spike Amount LCS Result LCS Rec. LImits LCS Quahfier				,Qc
CLCS R4209758-2 05/05/25 10:09	Laboratory Cor	ntrol Sample (LCS)		GI
Analyte mg/l mg/l % % Alkalinity 250 242 96.8 90 0-110	(LCS) R4209758-2 (05/05/25 10:09		
Alkatnity 250 242 968 90 0-110				LCS Qualifier
	· ·			A
I Sc I	Alkalinity	250 242	96 8 90 0-110	To 1
				Sc

WG2503648 QUALITY CONTROL SUMMARY Wet Chemistry by Method 300.0 Method Blank (MB) (MB) R4208040-1 04/30/25 16:38 MB Qualifier MB MDL MB RDL Analyte mg/l mg/l mgil Sulfate U 0 211 0 700 Ss Laboratory Control Sample (LCS) ⁴Cn (LCS) R4208040-2 04/30/25 16:59 Rec. Limits LCS Qualifier Analyte mg/l mg/l Sulfate 5.00 5 37 107 90 0-110 L1852867-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1852867-02 04/30/25 17:41 • (MS) R4208040-3 04/30/25 18:01 • (MSD) R4208040-4 04/30/25 18:22 GI

MSD Rec

%

105

Dilution Rec Limits

SDG:

L1853355

90,0-110

500

MS Qualifier MSD Qualifier RPD

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RPD L m (s

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Spike Amount Original Result MS Result MSD Result MS Rec

mg/l

4680

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PROJECT:

VOLLEMANS PROCESSING

mg/l

mg/l

ACCOUNT:

Enviro-Ag Engineering

Sulfate

mg/l

2050

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Method Blank	: (MB)												ſ	c .
(MB) R4208680-1														Ср
	M8 Result	MB Qualifler	MB MDL	MB RDL									Į.	
Analyte	mg/I		mg/I	mg/l										Tc
Fluoride	U		0 0947	0 500										
Nitrate as (N)	U		0.379	υ 500									[°Ss
	ontrol Sample (L	CS)												†Cn
(LCS) R4208680-2		LOS B It	1000											
Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec	Rec Limits	LCS Qualifier									Sr
Fluoride	5.00	5.36	107	90 0-110										_
Nitrate as (N)	5.00	4 96	99.2	90 0-110										"Oc
L1853630-01 (Original Sample	(OS) • Matr	ix Spike (MS) • Matri:	x Spike Du	plicate (MS	SDI							GI
	05/01/25 13:39 + (MS)													H
		Original Result		MSD Result	MS Rec	MSD Rec	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits		Al
Analyte	mg/li	mg/l	mg/l	mg/l	%	%		%			%	9°		
Fluoride	5 00	ND	5.49	5.45	104	104	1	90.0-110			0.708	20		Sc
Nitrate as (N)	5 00	0.784	5.67	5 64	97.8	97.1		90 0-110						

WG2505409 QUALITY CONTROL SUMMARY Wel Chemistry by Method 300.0 L1853355-01 Method Blank (MB) (MB) R4210583-1 05/06/25 08:59 MB Qualifier MB MDL MB Result MB RDL Analyte mg/l mo/l mail Chloride U 0 325 0.800 Ss Laboratory Control Sample (LCS) 'Cn (LCS) R4210583-2 05/06/25 09:20 Spike Amount LCS Result LCS Rec Rec Limits LCS Qualifier Analyte /ng/l rng/I Sr Chloride 5 00 5 15 103 90 0-110 L1853704-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) GI (OS) L1B53704-01 05/06/25 10:01 • (MS) R4210583-5 05/06/25 11:25 • (MSD) R4210583-6 05/06/25 11:46 Spike Amount Original Result MS Result MSD Result MS Rec MSD Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte ma/l mg/l 571 mg/l mg/l Ψ. Chloride 250 810 95.9 805 938 50 90 0-110 0.632 20

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WG2505203

QUALITY CONTROL SUMMARY

L1853355-0

L1853355-01 Original Sample (OS) • Duplicate (DUP)



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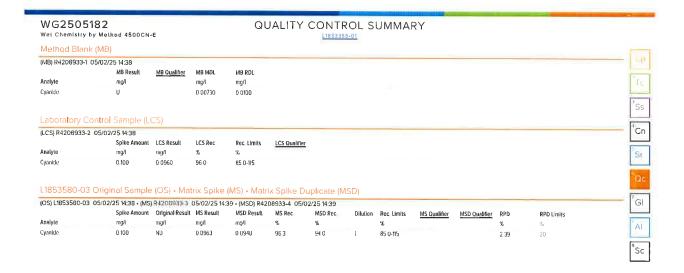
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PROJECT: VOLLEMANS PROCESSING SDG: L1853355 DATE/TIME:

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WG2504260 QUALITY CONTROL SUMMARY Wel Chemistry by Method 4500P-E L1853355-01 Method Blank (MB) (MB) R4208309-1 05/01/25 14:47 MB Result MB Qualifier MB MDL MB RDL Analyte ma/l ma/l nio/I Phosphorus, Total 0.0219 0.0152 0.0500 5s Laboratory Control Sample (LCS) [']Cn (LCS) R4208309-2 05/01/25 14:47 Spike Amount LCS Result LCS Rec Rec. Limits LCS Qualifier Analyte ma/i mg/l Sr. 0 500 Phosphorus,Total 0 477 95.3 80 0-120 L1851693-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1851693-01 05/01/25 14:47 • (MS) R4208309-3 05/01/25 14:48 • (MSD) R4208309-4 05/01/25 14:48 GI Spike Amount Original Result MS Result MSD Result MS Rec MSD Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte mg/i mg/l nig/l mg/l ΑI Phosphorus, Fotal 0.500 0 124 0.610 0.628 972 101 80 0-120 . 81 20

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PROJECT: VOI LEMANS PROCESSING SDG: 11853355 DATE/TIME:

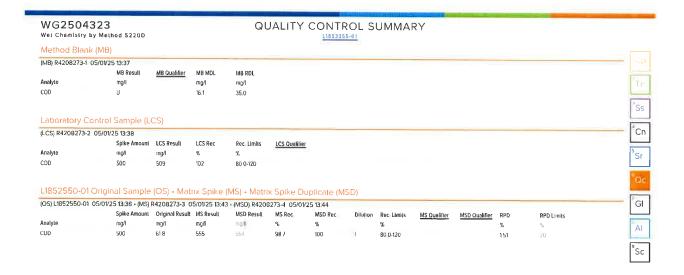
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WG2504472 QUALITY CONTROL SUMMARY Wet Chemistry by Method 5310C L1853355-01 Method Blank (MB) (MB) R4208784-1 05/01/25 14:57 MB Result MB Qualifier MB MDL MB RDL ma/l ma/l nigili TOC (Total Organic Carbon) U 0 270 0.700 Ss Laboratory Control Sample (LCS) Cn (LCS) R4208784-2 05/01/25 15:17 Spike Amount LCS Result LCS Rec Rec Limits LCS Qualifler Analyte rng/l mg/l Sr TOC (Total Organic Carbon) 10.0 10.5 106 90 0-110 L1852660-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) GI (OS) L1852660-01 05/01/25 15:44 • (MS) R4208784-3 05/01/25 16:31 • (MSD) R4208784-4 05/01/25 16:51 Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Linits Analyte mg/I mg/l mg/l mg/l

80 0-120

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TOC (Total Organic Carbon) 10.0

181

18 4

49 9

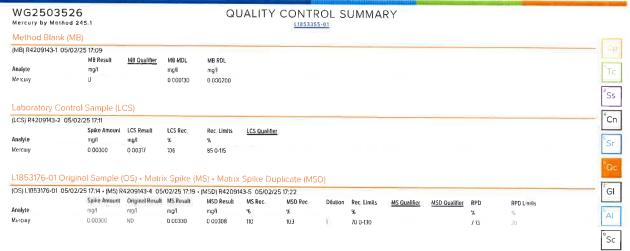
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WG2504311 QUALITY CONTROL SUMMARY Wet Chemistry by Method SM4500NH3H Method Blank (MB) (MB) R4208347-1 05/01/25 13:21 MB Result MB Qualifier MB MDL MB RDL Analyte mg/l ma/i mo/l Ammonia Nitrogen IJ 0.0280 0.100 55 Laboratory Control Sample (LCS) ^¹Cn (LCS) R4208347-2 05/01/25 13:23 Spike Amount LCS Result LCS Rec Rec. Limits LCS Qualifier Analyte ing/l mg/l Ammonia Nitrogen 5 00 5.04 101 80 0-120 L1852642-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) GI (OS) L1852642-01 05/01/25 13:24 • (MS) R4208347-3 05/01/25 13:58 • (MSD) R4208347-4 05/01/25 14:03 Spike Amount Original Result MS Result MSD Result MS Rec MSD Rec Dilution Rec, Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte ma/l mg/l ma/l mq/I Ψ. ΑI Ammonia Nitrogen 5 00 ND 4.88 96.6 4 86 96.2 80 0-120 0 411 20 'Sc L1852796-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1852796-01 05/01/25 13:26 • (MS) R4208347-5 05/01/25 14:05 • (MSD) R4208347-6 05/01/25 14:07 Spike Amount Original Result MS Result MSD Result MS Rec_ MSD Rec. Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits

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Analyte

Anstronia Natrogen

mg/l

5 00

mg/i

ND

mg/l

4 85

mq/I

4.86

96.0

96.7

80.0-120

0.206

20

WG2508289

Metals (ICP) by Method 200 7

QUALITY CONTROL SUMMARY

L1853355-01

Method Blank (MB)

(MB) R4211475-1 O	5/08/25 00:10					-
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	mg/		mg/l	nig/l		To
Muminum	:0		0 0409	0 200		
Antimony	Ú		0 00597	0.0100		T'Ss
Arseme	39		0.00478	0.0100		55
Barium	Ú.		0 000675	0 00500		
Beryllium	U		0 000354	0.00200		l Cr
Cadmiun	U		0 000492	0 00200		
Chromium	:0		0 000920	0 0100		r'Sr
Copper	:U		0.00217	0.0100		Sr
Lend	3.0		0 00272	0.00500		-
Nickel	U		0 00132	0.0100		O
Selemum	U		0 00529	0 0100		
Silver	U		0.00134	0 00500		GI
Thallium	Ü		0.00388	0 0100		G
Zinc	U		0 00421	0 0500		
						Al
Laboratas Ca						

Laboratory Control Sample (LCS) #LCS\R4211475-2_05/08/25.00:12

(LCS) R4211475-2	05/08/25 00:12				
	Spike Amount	LCS Result	LCS Rec	Rec_Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Aluminum	10.0	9 95	99 5	85 0-115	
Antimony	100	101	101	85 0-115	
Arsenic	100	101	101	B5 U-115	
Ванил	100	107	107	85 0-115	
Beryllium	100	106	106	85 0-115	
Cadmium	100	103	103	85 0 115	
Chromium	100	106	106	85 0-115	
Copper	100	105	105	85 0-115	
Lead	100	101	101	85 D-115	
Nickel	1.00	0.993	99.3	85 D 115	
Selenium	100	100	:00	85 O-115	
Silver	G 200	G 200	100	85 0-115	
Thallium	1.00	106	106	85 0-115	
Zinc	100	104	104	85 D-115	

 ACCOUNT:
 PROJECT:
 SDG:

 Enviro-Ag Engineering
 VOLLEMANS PROCESSING
 L1853355

WG2508289 Metals (ICP) by Method 200.7

QUALITY CONTROL SUMMARY

L1853355-01

L1853182-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec_	MSD Rec.	Dilution	Rec Limits	MS Qualifier	MSD Qualifier	RPD	RPD L mills	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			K	%	I
Viuntinum	10.0	ND	10.1	9.92	101	98.6	91	70 0-130			1.94	70	
Antimony	1.00	ND	1.02	1.01	102	101	78	70 0-130			1.79	20	F
Arsenic	1.00	ND	104	102	104	102	31.	/0 0-130			1.99	20	1
Barium	1.00	0 0335	1.12	109	108	106	3	70 0-130			2.09	20	7
Beryllium	1.00	ND	1.06	104	106	104	3	70,0-130			1.59	20	- 1
Codmium	1.OD	ND	105	103	105	103	1	70 0-130			1.86	20	L
Chromium	1.00	ND	107	105	107	105	1	70 0-130			1.81	20	f
Сорреі	1.00	ND	1.06	104	106	103	4	70.0-130			2.45	20	
ead	1.00	ND	1.02	0.998	102	99.8	1	70 0-130			197	20	
lickel	1.00	ND	1.01	0.985	101	98.5	3	/0 0-130			2.1/	20	
elenium	100	ND	101	0 994	101	99.4	(8)	70 0-130			198	70	
illver	0.200	ND	0.202	U 197	101	98.7	1	70 0-130			2.57	20	7
Tallium	1.00	ND	107	105	107	105	1	70 0-130			2 25	20	
inc	1.00	7 30	B.41	8 0 8	110	77.5	1	70 0-130			3.09	20	t-

L1853520-01 Original Sample (OS) • Matrix Spike IMS) • Matrix Spike Duplicate (MSD)

(OS) L1853520-01	05/08/25 00:21 + (MS)	R4211475-6 0	5/08/25 00:2	23 · (MSD) R421	1475-7 05/08	3/25 00:25						
	Spike Amount	Original Result		MSD Result	MS Rec	MSD Rec	Dilution	Rec Limits	MS Qualifier	MSD Qualifier	RPD	RPD L mins
Analyte	mg/l	nig/ł	mg/l	nig/I	*	*		%			%	χ,
Aluminum	10.D	ND	9 95	9 86	99.5	98.6	W	/0.0-130			0.977	20
Antimony	1.00	ND	1.02	101	102	101	11	70 0-130			1,12	20
Arsenic	1.00	ND	1.02	1.01	102	101	4	70.0-130			0.941	20
Barium	1.00	0 0351	1.10	1.09	106	105	T.	70 0-130			0.739	20
Beryllium	1.00	ND	1.05	1.03	105	103	1	70 0-130			2.19	20
Cadmiuni	1.00	0.0153	1,C4	1.03	103	102	1	70 0-130			1.09	20
Chromiuni	1.00	NO	1.04	1.03	104	103	1	70 0-130			1.46	20
Copper	1.00	ND	1.05	104	104	103	1	/0 0-130			0.959	20
Lead	1.00	ND	1.00	0 995	100	99 5	t	70 0-130			0.656	20
Nickel	1.00	ND	0.994	0.983	99.0	97.9	10	70.0-130			1.14	20
Selenium	1.00	ND	1.01	0 990	101	990	J.	/0 0-130			1.52	20
Silver	0.200	ND	0.201	0.199	100	99.5	1.	70 0-130			0.916	20
Thallium	1.00	ND	1.05	1.04	105	104	1	70.0-130			1.38	20
Zinc	100	128	2 33	2.24	104	95.9	4	70.0-130			3.65	20

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GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation and if you have additional questions please contact your project representative.

Results Disclaime: Information that may be provided by, the custome, and contened within this report include Permit Limits, Project Name.
Sample ID. Sample Nature, Sample Reservation, Falled Blanks, Faeld Salves, Faeld Outpitates, On-Sale Data, Sampling Collection Dates/Times, and
Sampling Location Revults: Bible to the accuracy of this information provided and as the samples are received.

Abbreviations and Definitions	oven and or an amount from the compact and so the southers are texturent.	ν V
MDL	Niethod Detection Limit	
S	Not detacted at the Reporting Limit (or MDL where applicable)	<u>∂</u>
RDL	Reported Detection Limit	L
Rec.	Recovery)
RPO	Relative Percent Difference	U,
SDG	Sample Delivery Group	
C	Not detected at the Reporting Limit (or MDL where applicable)	8
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analyses reported.	
Dilution	If the script rate is contains at inter-sure interval the particle proposition volume as well of which offer no in the state are due to the containing of an algorithm in the state are higher than the ingreat hand of contentioned that the laboratory can accurately lepon the stangle may be different on each size of the state of the stangle may be different than it is used in this field, the result reported has already been corrected for this factor.	Ω
Limits	These are the larget % recovery ranges or % difference value that the laboratory has historically determined as normal for the nighted and analyte being reported. Successful OC Sample analysis will target all analytes recovered or cuplicated within these ranges.	ů j
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.	20
Qualifier	This column projetors is lettle and or number designation that corresponds to additional information concerning the result reported, if a Guidifier is present, a definition per Louilibrus rapionales within the Glossay and Definitions page and potentially a discussion of possible implications of the Qualifier in the Cases learning at application.	
Result	The actual analytical final result (con-ected for any sample specific characteristics) reported for your sample if these was no measurable result resurned for a specific analytic the result in this column may state "MD". (No Described) or 18D1. Bakew Describet, telesi) The information in the results column should always be accompanied by either an MDL. Wethord Descriptor limit) or RDL. (Reporting Defection Limit) that defines the lowest value that the laboratory could detect or report for this mark/e.	
Uncertainty (Radiochemistry)	Confidence level of 2 sgma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any nan-conformances to protocol observed either at sample recept by the bipointpy from the field of uturing the analytical process. If present there will be a section in the Case Norrahve to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Oc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collecter, the person educating the samples, and the analyses that he allocation is required to perform. This chain of custody also occuments all persons is cluding commencial singlersy that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed any your samples. These results are provided by samples Dard se spansaged by the analysis performed on south sample, The header line of each analysis section for each sample to the many and method number for the many reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID. including the dates and times of preparation and/or analysis.	

Qualifier	Description
m	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
_	The identification of the analyte is acceptable; the reported value is an estimate
13	The associated batch QC was outside the established quality control range for precision.
75	The sample matrix interfered with the ability to make any accurate determination, spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
K9	Test replicates show more than 30% difference between high and low values
T8	Sample(s) received past too close to holding time expiration

SDG: L1653355 DATE/TIME: 05/29/25 16 27 PAGE 29 of 43

ACCOUNT Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment of Environment o

PROJECT: VOLLEMANS PROCESSING

SDG: LI653355

DATE/TIME: 05/29/25 16 27

PAGE 3D of 43

ACCOUNT:

PROJECT: VOLLEMANS PROCESSING

ACCREDITATIONS & LOCATIONS

TOTAL MINERAL INSCORPER	17000 FEDGI OH MONITORING TA STITZ	11437177	
Alabama	40580	Nebraska	NE-05-15-05
Alaska	17:025	Nevzda	TN0000032021-1
Anzona	AZ0612	New Hampshire	2975
Arkansas	89-0-89	New Jersey-NELAP	ZDON
California	2932	New Mexico 1	TND0003
Colorado	TN00:003	New York	17742
Connecticul	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina "	DW21704
Georgia	NELAP	North Carolina '	41
Georgia 1	923	North Dakola	R-140
Idaho	TN00003	Ohig-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky' 7	KY9001G	South Carolina	84004002
Kentucky '	16	South Dakota	nia
Louisiana	Al30792	Tennessee '	2005
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Marne	TN00003	Texas *	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TNOD3	Vermont	VT2006
Michigan	8265	Virginia	110033
Minnesola	047-999-395	Washington	C847
Mississippi	TNOCOD3	West Virginia	233
Missauri	340	Wisconsin	998093910
Montana	CERT0086	Wyaming	AZLA
A2LA - ISO 17025	1461 01	AIHA-LAP,LLC EMLAP	100789
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Qualitrax ID: 48806	Login Person: Date:	Non-Conformance(s):	Project sampled in USDA Regulated Area outside of Texas State Sampled:	Headspace in VOA (>6mm)	Unpreserved 5035A soil frozen within 48 hrs	Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Sulfide Present Lead Acetate Strips:	Cl Strips:	Sample pH Acceptable pH Strips: 640604	Container Intact	Correct Container used	Sufficient Volume received	ould be all we freezing	Short HT analyses (<72 hrs)	Sampler name & signature on COC	Chain of Custody relinquished	donice: Ward Blue on No ice on glab 1 Thermometer Used: TR-A	Client Name: Project Courier: FedeXii UPS UPS o Client ISO o PACE o Other: Tracking #: UPS o UPS o Client ISO o PACE o Other: Custody Seal on Cooler/Box: Yes o No 27	Sample Con ÆDallas aft Worth	Effective Date: 17/18/2023	Pace: DC#_Title: ENV-FRM-ALLE-0017 v15_Sample Condition Upon
Cart.		Yes 🗆 No 🗈	of Yes a No a NA R	Yes a No a	Yes 🗆 No 🗈 NA 🖅	Kits Yes o No o NA	Yes D No D NA	. N	N 0	Yes 1 No 0	Yes A No o	Yes, 2 No D	to 6°C unless collected same day as receipt in which eviden	Yes 🗆 No 🚁	Yes & No o	Yes & No D	Cooler Temp °C: 4.8 (Recorded) 1	Project Work order (place label): Other:	Sample Condition Upon Receipt GFt Worth GCorpus Christi GAustin		/15_Sample Condition Up

ceived in 5035A Kits Yes a No a NA, and rogram TPH)

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023 W-ALLE-0017 v15_Sample Condition Upon Receipt

Page 1 of 1



Pace Analytical Services, LLC 9508 Loiret Blvd Lenexa, KS 68219 (913)599-5865

May 29, 2025

Dallas_Sub

R Project: L1853355 Pace Project No.: 60475753

Dear Dallas Sub:

Enclosed are the analytical results for sample(s) received by the laboratory on May 21, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

alliso Duma

allison sherman@pacelabs.com (913)599-5665 PM Lab Management Allison Sherman

Endosures

cc: Jimmy Huckaba, Pace National Lori Vahrenkamp, Pace National



REPORT OF LABORATORY ANALYSIS

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Page 1 of 11



Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)598-5665

CERTIFICATIONS

Project: L1853355
Pace Project No.: 60475753

Pace Analytical Services Kansas
9508 Lotret Boulevard, Lenca, KS 66219
Artaneas Certification #: 86.001679
Colorado Division of Oli and Public Safety
Illinois Certification #: 200392023-5
Lowa Certification #: 118
Kansas Field Laboratory Certification #: E-92587
Kansas/NELAP Certification #: E-10116

Louisiana Certification #, 03055
Missouri Inorganic Drinking Water Certification
Nevada Certification #, KS000212024-1
Oklahoma Certification #, 2023-073
Texas Certification #, 1104704407-23-17
Usin Certification #, KS000212022-13

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Page 2 of 11



Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)599-6665

SAMPLE SUMMARY

Project: L1853355
Pace Project No.: 60475753

60475753001	Lab ID
1 VP-53	Sample (D
Water	Matrix
04/30/25 08:38	Date Collected
05/21/25 09:45	Date Received



SAMPLE ANALYTE COUNT

Project: L1853355
Pace Project No : 60475753

PASI-K		KV.	EPA 1664A	VP-53	60475753001 VP-53
Laborator	Analytes Reported	Analysts	Method	Sample ID	Lab ID

PASI-K = Pace Analytical Services - Kansas City

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Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 65219 (913)599-5665

ANALYTICAL RESULTS

Project: L1853355
Pace Project No.: 60475753

HEM, Oil and Grease Sample: VP-53 Parameters Results Analytical Method: EPA 1664A Pace Analytical Services - Kansas City Lab ID: 60475753001 Units Report Limit Collected: 04/30/25 08:38 Received: 05/21/25 09:45 Matrix: Water MDL 믺 Prepared Analyzed CAS No. Qual

Oil and Grease

mg/L

6.2

16 1

05/28/25 10:39

Oil and Grease

mg/L

B

1.3 05/28/25 10:37

QUALITY CONTROL DATA

Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)589-5665

Project: L1853355
Pace Project No.: 60475753

		į				,
			Reporting	Blank	60475753001	Associated Lab Samples: 60475753001
			Matrix: Water	Мафі	928	METHOD BLANK: 3712928
Ì		,			60475753001	Associated Lab Samples: 60475753001
<	Pace Analytical Services - Kansas City	Pace Analytical S		Laboratory:		
	าd Grease	1664 HEM, Oil and Grease	escription:	Analysis Description:	EPA 1664A	QC Batch Method: EP/
		EPA 1664A	ethod:	Analysis Method:	609	QC Batch: 936609

۵	Limits	% Rec	Result	Conc	Result	Units	Parameter
- 1	% ZD	S.	S.	Solke	60475128001	3712932	MATRIX SPIKE SAMPLE:
			3			•	
	0	78-114	90	35.8	40	mg/L	Oil and Grease
	Qualifiers	% Rec	LCS % Rec	Result	Spike L	Units	Parameter
						3712929	LABORATORY CONTROL SAMPLE: 3712929

Oil and Grease	Parameter	SAMPLE DUPLICATE: 3712933
mg/L	Units	
7.0	604/5131001 Result	
3.7J	Dup	,
	RPD	
18	RPD	
	Qualifiers	

Oil and Grease

mg/L Units

13.9

39.2

Qualifiers

56

78-114 M1

REPORT OF LABORATORY ANALYSIS

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Date: 05/29/2025 08:12 AM

Page 5 of 11

Date: 05/29/2025 08:12 AM

REPORT OF LABORATORY ANALYSIS

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Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)593-5665

QUALIFIERS

Project: L1853355
Pace Project No.: 60475753

DEFINITIONS

- DF Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot ND - Not Detected at or above adjusted reporting limit
- TNTC Too Numerous To Count
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- S Surrogate

PQL - Practical Quantitation Limit MDL - Adjusted Method Detection Limit

- RL Reporting Limit The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
- Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values. LCS(D) Laboratory Control Sample (Duplicate) 1,2-Diphenythydrazine decomposes to and cannot be separated from Azoberizene using Method 8270. The result for each analyte is a combined concentration.
- DUP Sample Duplicate MS(D) - Matrix Spike (Duplicate)
- RPD Relative Percent Difference
- NC Not Calculable
- SG Silica Gel Clean-Up
- U-Indicates the compound was analyzed for, but not detected.

 N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 6270. The result reported for each analyte is a combined concentration.

 Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "fold" may very slightly from the sum of the reported component parameters.

 Total" may very slightly from the sum of the reported component parameters.

 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

- TNI The NELAC Institute

ANALYTE QUALIFIERS

Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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Date: 05/29/2025 08:12 AM

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Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Pace Project No.: L1853355 60475753

		936609	EPA 1664A	VP-53	60475753001
Analytical Batch	QC Batch Analytical Method	QC Batch	QC Batch Method	Sample ID	Lab ID

REPORT OF LABORATORY ANALYSIS

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Date: 05/29/2025 08:12 AM

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Courier: FedEx D UPS VIAI	Revision: 2 H		#45
Chy PEX D ECI D	Effective Date: 01/12/2022	DC#_Title: ENV-FRM-LENE-0009_Sample C	
Pace □ Xroads □ Client □ Other □	Issued By: Lenexa	50475753	W0#:60475753

	Date:	Project Manager Review:
		Comments/ Resolution:
	īme:	Person Contacted: Date/Time:
Field Dala Required? Y / N	Client? Y / N	Client Notification/ Resolution: Copy COC to Client?
	Yes ONG DWA	Additional labets attached to 5035A / TX1005 vials in the field? □Yes
	Oyes Ono Dora	Samples from USDA Regulated Area State:
	DYES DNO BONA	Headspace in VOA vials (>6mm):
	DYes DNo DNA	Trip Blank present:
	□Yes □No	Potassium iodide test strip turns blue/purple? (Preserve)
	□Yes □No	Lead acetate strip turns dark? (Record only)
	1	
		Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:
List sample IDs, volumes, lot #'s of preservative and the date/lime added.	Oyes Ono Duwar	Containers requiring pH preservation in compliance? (HNO ₂ , H ₂ SO ₄ , HCl<2: NaOH>9 Sulfide, NaOH>10 Cyanide)
	DYes DING DNA	Samples contain multiple phases? Matrix:
	DNG DNA DNA	Sample labels match COC: Date / time / ID / analyses
	DYes DNo BARA	Filtered volume received for dissolved tests?
	Oves ONO BANA	Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?
	DYes ONO ONIA	Containers intact:
	DVes ONO ONA	Pace containers used:
	19Yes ONO ONIA	Correct containers used:
	DY95 DNO DNIA	Sufficient volume:
	DYES GING DNA	Rush Turn Around Time requested:
	OYES DNO DNIA	Short Hold Time analyses (<72hr):
	DY95 DNO DNA	Samples arrived within holding time:
	BYes ONO ONIA	Chain of Custody relinquished:
	Alves ONO ONIA	Chain of Custody present:
AT 7/2		remperature should be above freezing to B*C
ed 5. Date and initials of person examining contents.	01	Cooler Temperature (°C): As-read 7, Corr. Factor
	(e) (e)) 3
		Bubble Wran T Bub
No D	Seals intact: Yes I	No
×		100111111111111111111111111111111111111

Page 1 of 1
Page 9 of 11

Qualtrax Document ID: 30468

Sub-Contract Chain of Custody

Barch BateTime 165622 (9)-38
Sub-Contract Labr PACLES
Address 300 Librar Boderiad
2400
City-States Lanca KS 66219
City-States Lanca KS 66219
Contract
Albora Storman Jarcelia com
Owner Labr PACLATY
Albora Storman Jarcelia com
City-State Albor, 185 2913
Finite 1902 723-1123
Finite 1972 723-1123
Seed Reports for Angels Food
First
Seed Reports for Angels Food

Pace Analytical

July W Betherp Draw State 1901
Allen EV 2013
Phone (972) 727-(123

MO: WG: Should State Collect Date Description Method Sample Number Comments State Collect Date Description Method Sample Number Comments State Collect Date Description Method Sample Number Comments State Collect Date Description Method Sample Number Comments State Collect Date Description Method Sample Number Comments State Collect Date Description Method Sample Number Comments State Collect Date Description Method Sample Number Comments State Collect Date Description Method Sample Number Comments State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State S

Sample ID

Container ID

Matrix State Collect Date

VP-53

UL-CIt-WT-HCI51766176

WW TX 04/30/25

UL-CIt-WT-HCI51766177

WW TX 08/38

Extr)

Grease (Ilexane 1664A | L 1/853355-0)

L-CIt-WT-HCI51766177

Container used for multiple Samples und or Analyses

Redinquished to: Butter part | Date | Day 2 |

Relinquished hy-

Received hy:

Dark.

				Sile																Notes										
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-9	w7																				102			- 42	-	_	1112	100	Ŋ	- 0
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Pace Analytical ANALYTICAL REPORT May 21, 2025

Enviro-Ag Engineering

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Sample Delivery Group: Description: Project Number: Samples Received: L1855999 Pollutant Permit VOLLEMANS PROCESSING 05/07/2025

3404 Airway Blvd Jourdan Mellin

VOLLEMANS PROCESSING

0

Amarillo, TX 79118

Site

Report To

Entire Report Reviewed By John ? Downts

Dorothy P Roberts Project Manager



ACCOUNT: Enviro-Ag Engineering

PROJECT: VOLUEMANS PROCESSING

SDG:

DATE/TIME: 05/21/25 15:50

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TABLE OF CONTENTS

Sc. Sample Chain of Custody	All Accreditations & Locations	GI: Glossary of Terms	Metals (ICP) by Method 200.7	Mercury by Method 245.1	Wet Chemistry by Method SM4500NH3H	Wet Chemistry by Method SM 4500-H+8	Wet Chemistry by Method 5310C	Wat Chamistry by Method 52200	Wet Chemistry by Method 5210 8-2016	Wet Chemistry by Method 45009-E	Wet Chemistry by Method 4500CN-E	Wet Chemistry by Mathod 4500CI G-2011	Wet Chemistry by Method 360.1	Wet Chamistry by Method 351.2	Wet Chemistry by Method 3500Cr-B	Wet Chemistry by Method 300.0	Wet Chemistry by Method 23208	Gravimetric Analysis by Method 25400	Gravimetric Analysis by Method 25400	Oct Quality Control Summary	VP-54 L1855999-01	Sr. Sample Results	Cn: Case Narrative	Ss: Sample Summary	To Table of Contents	Cp: Cover Page
31	30	29	27	26	25	24	23	22	20	19	18	17	16	15	14	##	10	9	00	00	ហ	ហ	4	ω	2	

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ACCOUNT Enviro-Ag Engineering

PROJECT:
VOLLEMANS PROCESSING

PROFESSION SOCS

DATE/TIME: 05/21/25 15:50

PAGE 2 of 44

SAMPLE SUMMARY

			Collected by	Cullegad date/time Recoved dat time	Beconed de	ALIE STATE
VP-54 L1855999-01			COPEY MULLIN	05/07/25 08:57	05/07/25 12 53	85
Vethod	Barch	Dilution	Pleparation	Analysis	Analyst	Location
			dalerlime	date/t me		
Calculated Results	WG25142*1	-1	05/14/25 20:00	05/14/25 20/00	5AG	Mt Julie* TN
Calculated Results	WC2514522	ě	80 51 4271/40	25,14,2±19.08	=======================================	All n. IX
Gravi matric Asialysis by Method 2540°C	WE2512084	_	05/10/25 1/1/26	05/10/25 15:25	001	Allen TX
Giavimetric Analysis by Method 25460	W62509671	_	05/07 25 '8 02	35/07/25 18:22	021	Allen TX
Wet Chein stry by Method 23208	WG2512845	_	05/12/25 11:19	05/12/25 11:19	SKW/	Allen, IX
Wet Chem stry by Method 300 0	WG2509170	_	05/07 25 :4 12	05/07/25 14 12	,BS	Allen, TX
Wet Chem stry by Method 300 0	WC2510540	_	05/12/25 20:37	05/12/25 20 37	SMC	Allen, TX
Wet Cham stry by Method 300 0	WE2510540	_	05/13/25 09:30	05/13/25 09:30	SMC	Allen TX
Wel Chem stry by Method 300 0	WG2514458		05/14/25 11:03	05/14/25 11:03	SB_	Allen, TX
Wet Chemistry by Method 3500Cr-B	WG2509998	_	05/08/25 14:18	05/08/25 14:18	SMC	Allen, TX
Wet Chemistry by Method 351,2	WG2513589	25	05/13/25 18:05	05/13/25 18 55	36	Allen, TX
Wet Chemistry by Method 350 1	WE2510013	_	05/08/25 09 30	25/08/25 09:30	SKW/	All_n, Tx
Wet Chara stry by Method 45000 G-2011	WC2509371	2	05/14/25 11:11	05/14/25 10:11	JAP	Mt Julie: TN
Wet Cheru stry by IZethod 4500CN-E	WC2512756	_	05/12/25 11:30	05/12/25 15:35	SMC	Alien, TX
Wet Chemistry by Method 4500CN-G	WC2512756	_	05/12/25 15:35	05/12/25 15:35	SMC	Allen, TX
Wet Chemistry by Method 4500P-E	WG2512760	20	05/12/25 17:24	35/12/25 17:24	SMC	Allen, TX
Wet Chemistry by Method 52:0 8-2016	WG2508999	_	05/07/25 15:53	05/12/25 10:10	MP	Allen, TX
Wet Chemistry by Method 52'0 8-2016	WG2509002	_	05/07/25:7:22	35/12/25 11:12	SKW	Allen, TX
Wet Chain stry by Method 5220D	WG2510018	2	05/08/25 10:06	05/08/25 13:45	SKW	Allen, TX
Wet Chemistry by Method 5310C	WC251396B	20	05/15/25 01:39	05/15/25 01:39	EIG	Allen, TX
Wet Chemistry by Melliod SM 4500-H+8	WG2510012		05/08/25 09:10	05/08/25 09:10	MP	Allen TX
Wet Cham stry by Method SM4500NH3H	WG2514522	LIT	05/14/25 18:08	05/14/25 19:08	∃G	Allen, TX
Nercury by Method 2451	W62510610		05/12/25 15:31	05/13/25 12:35	EXV	Mt Julie: TN
Metals (ICP) by Metl od 200 7	WC25142 1	_	05/14/25 09:55	05/14/25 20 00	SAC	Mt. Julie: TN
Subcontracted Analyses	WE2510087	_	05/21/25 00:00	05/21/25 00 00	ANE	Lenexa 4S 56219

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOD) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Barch Quality Control are within established criterial except where a addressed in this case nariable, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems aromaines observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowlingly withheld that would affect the quality of the data.



Dorothy P Roberts Project Manager

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Project Narrative

L1855999-01 contains subout data that is included after the chain of custody

Sample Delivery Group (SDG) Narrative

Lab Sample ID Analysis was fiftered in the laboratory.

Project Sample ID

Method 3500Cr-B

Enviro-Ag Engineering	ACCOUNT:	
VOLLEMANS PROCESSING	PROJECT:	
L1855999	SDG	
05/21/25 15:50	DATE/TIME	
3 0/ 44	PAGE:	

ACCOUNT Enviro-Ag Engineering

PROJECT: VOLLEMANS PROCESSING

SDG: L1855999

DATE/TIME: 05/21/25 15/50

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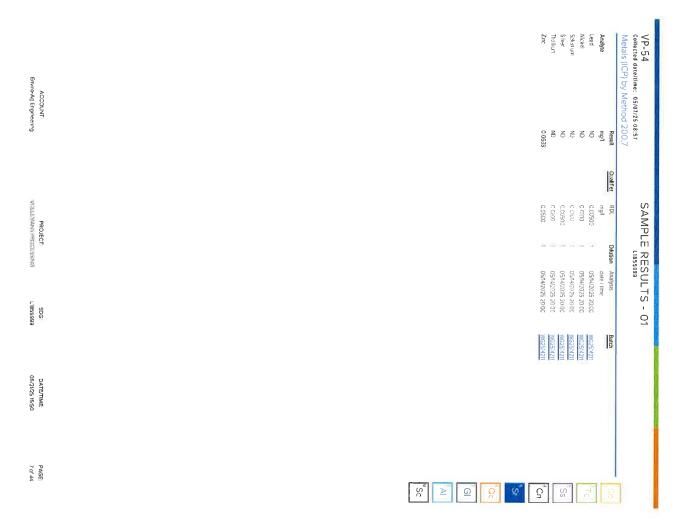
ACCOUNT:			Analyte		Wet Chemistry by Method 45000N-F	Chlorine residual	Analyte		Wet Chemistry by Method 4500Cl G-2011	Dissolved Oxygon	Analyte	Wet Chemistry by Method 3601	Nitrogen, TKN	Analys	Wet Chemistry by Method 3512	Chromium,Hexavalent			Wet Chemistry by Method 3500Cr-B		Nitrale as (N)			Analyte	Wet Chemistry by Method 300 0	AIKainity		Wet Chemistry by Method 2320B		ed Solids	Analyte	Gravimetric Analysis by Method 2540D		Total Dissolved Solids	Analyte	Gravimetric Analysis by Method 2540C		Chromium, i rivalent O carric Nitrogen	Analyte		Calculated Results	VP-54 Callected date/time: 05/07/25 08:57
id		ND	mg Godiner	Decide Contract	d 45000N-F	3.04		Result Qualifier	d 4500Cl G-201	0,650 Pi TS	mg and addition		65.0	Result Qualifier	d 351.2	8		Result Qualifier	d 3500Cr-B	2,0	ND ND	0.741 <u>B</u>	753	Result Qualifier	o 300 o	/40	mg/l Qualifier	od 2320B		527	Result Qualifier	Method 2540D		2960	Result Qualifier	Method 2540C	6	55.8	1	Result Qualifier		08:57
PROJECT: VOLLEMANS PROCESSING		0.0100	mg/	Т		c.20C		RDL	_	_	mg/l	1	0) = 0) = 0) =			C 00300	тgл	ar RDL		0.700	C 50C	0.500	c aoc	er RDL mg/l		20.0				167	mg/l	1		500	er RDL		6	0.500		er RDL		SAMPL
OCESSING		1 05/12/2025 15:35	date / time			2 05/14/2025 11:11	date / time	Dilution Analysis		1 05/08/2025 09:30	date / linus		25 05/15/2025 (3:55	Dilution Analysis		05/08/2025 14 15		Dilution Analysis		0F 60 GZ0Z/c/JG0	05/07/2025 14 12	05/14/2025 11:03	05/12/2025 20 37	Diution Analysis date / time		05/12/2025 11:9	Dilution Analysis date / time			1 05/07/2025 18:22	Dilution Analysis			1 05/19/2025 15-25	Dilution Analysis		0.0000000000000000000000000000000000000	05/14/2025 20:00	dati / lime	Dilution Analysis		SAMPLE RESULTS - 01
SDG: L1855999		15:35 WG25 2756				11:11 WG250837	- Conce	Ratch		09:30 <u>WG251901</u>	Baltzi		:3:55 WG25:3589	Batch		51416 WG250S398		Batch		MCC:CZ-DW OF BU		II:03 W625:4458		Batch		MG25:284				5 16 22 WG250967	Batch		1000		Batch			18:18 WG25:4211		Batch		S - 01
DATE/TIME: 05/21/25 15 50		756				371				013			589			3988				Dic	5170	458	1540			840			ļ	9571				2024			1322	1211				
PAGE: 5 of 44				75								Į,														00	2	ΔΙ	G	2	O _C		S		5	g	11	in a		5		
9	Copper	Chronium	Beryllium	Barium	Arsenic	Aluminum	Analyte		Metals (ICP) b	Mercury	Analyte	Mercury by Method 2451	Animonia N froger	Analyte	Wet Chemistr	F1855999-01 W6-2	Sample Narrative:		pH	Analido	Wet Chemisti		TOC (Total Organic Carbon)	Analyte	Wet Chemist	600	Analyte	Wet Chemist		CBOD	BOD	A pallab	Wet Chemist		Phosphorus Total		Wet Chemist	cyal loc allieradus	Analyte		Wet Chemist	VP-54 Collected date/til
ACCOUNT Enumag Engineering	N 8	5 8	N 16	0.111	ND I	8 B	mg/l	Result	Metals (ICP) by Method 200.7	NO	рm	1ethod 245 1	9 25	Result	Wet Chemistry by Method SM4	F1822648-01 MR57210017; V 88 81.18 PC			7 89	Result	Wet Chemistry by Method SM 2			mg/l	Wet Chemistry by Method 5310	g	mg/l	Wet Chemistry by Method 522		927	867	Result	Wet Chemistry by Method 5210		1.7°	Result	Wet Chemistry by Method 450	N	mg/ll	Result	Wet Chemistry by Method 450	VP-54 Collected date/time: 05/07/25 08:57

VP-54 collected date/time: 05/07/25 08:57 SAMPLE RESULTS - 01 Vet Chemistry by Method 4500CN-G Carideamenable Result NO Qualifier NDL NU Dhullon Analysis Analysis Batch date time Analysis Vet Chemistry by Method 4500P-E Prosphorus Total Result No Qualifier NDL NU NO Dhullon Analysis Batch date time Analysis Phosphorus Total Ingl Population Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis Batch date time Analysis <th< th=""></th<>
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WG25128 Wet Chemistry b		·		QI	JALIT	ITY CONTROL SUMMARY	
Method Blank	(MB)						
(MB) R4213342-1 O	5/12/25 11:19						Ср
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/l		mg/l	mg/I			To
Alkalinity	IJ		20.0	20.0			
							³ Ss
L1855769-01 (Original Sample	(OS) • Du	olicate (D	UP)			4
(OS) L1855769-01	05/12/25 11:19 · (DUP)	R4213342-3 (05/12/25 11:19				
	Original Result	L DUP Result	Dilution [DUP RPD <u>DI</u>	JP Qualifier	ier DUP RPD Limits	⁵Sr
Analyte	mg/l	mg/i	۵	6		%	31
Alkalinity	460	463	1 (715		20	"Qc
Laboratory Co	ntrol Sample (L	CS)					GI
(LCS) R4213342-2	05/12/25 11:19						
	Spike Amount	LCS Result	LCS Rec	Rec Limits	LCS Qual	<u>Dualifier</u>	Earl
Analyte	mg/l	mg/	%	94			AL
Alkalinity	250	242	96.8	90 0-110			
							Sc

SDG

QUALITY CONTROL SUMMARY L1855999-01

WG2509170 Wel Chemistry by Method 300 0

Method Blank (MB)

(MB) R4211266-2 05/07/25 12:28 MB Result MB Qualifier MB MDL MB RDL Analyte ma/l mo/I mo/I Nitrate as (N) U 0 379 0 500

Laboratory Control Sample (LCS)

(LCS) R4211266-3 05/07/25 12:4B

Spike Amount LCS Result LCS Rec Rec Limits LCS Qualifier Analyte mg/l mg/I

Nitrate as (N) 5 00 5.06 101 90 0-110

L1855277-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1B55277-01 05/07/25 13:09 • (MS) R4211266-4 05/07/25 13:30 • (MSD) R4211266-5 05/07/25 13:51 Spike Amount Original Result MS Result MSD Result MS Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD L ni is Analyte mg/I nıg/i mg/l nig/l ч. Nitrate as (N) 5 00 ND 5 0 5 5 0B 101 102 90 0-110 0 /46 20

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WG2510540 QUALITY CONTROL SUMMARY Wel Chemistry by Method 300 0 L1855999-01 Method Blank (MB) (MB) R4213833-3 05/12/25 15:52 M8 Result MB Qualifier MB MDL MB RDL Analyte mg/l Tigon mg/l Chloride IJ 0.325 0.800 Sullate U 0 211 0.700 Cn Laboratory Control Sample (LCS) (LCS) R4213833-2 05/12/25 15:40 Spike Amount LCS Result LCS Rec Rec Limits LCS Qualifier Analyte mg/l mg/l % Chloride 4 84 5,00 90 0-110 969 90 0-110 GI L1855771-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1855771-01 O5/12/25 18:26 • (MS) R42(3833-4 O5/12/25 18:38 • (MSD) R42(3833-5 O5/12/25 18:50 ΑI Spike Amount Original Result MS Result MSD Result MS Rec MSD Rec Difution Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits mgit mg/l mg/L Sullate 4.99 926 90.0-110 2.52 20 L1855771-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1855771-01 O5/12/25 19:02 • (MS) R4213833-6 O5/12/25 19:14 • (MSD) R4213833-7 O5/12/25 19:26 Spike Amount Original Result MS Result MSD Result MS Rec MSD Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits mg/l Analyte mg/l mg/l mg/l Chloride 50.0 37.5 81.1 87.1 90.0-110 0.186 20 L1856464-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1856464-01 05/12/25 21:01 • (MS) R4213833-8 05/12/25 21:13 • (MSD) R4213833-9 05/12/25 21:25 Spike Amount Original Result MS Result MSD Result MS Rec MSD Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Linuts Analyte mg/l ing/l mg/l mg/l Chloride 2500 2360 4530 4520 86 7 90 0-110 0 134 20 Sulfate 2500 772 3100 3110 93.2 934 90.0-110 0.171 20

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WG2514458 QUALITY CONTROL SUMMARY Wet Chemistry by Method 300 0 L1855999-01 Method Blank (MB) (MB) R4214558-1 05/14/25 09:16 MB Result MB Qualifier MB MDL MB RDL Analyte mo/l mo/l Fluoride 0.221 0 0947 0.500 Laboratory Control Sample (LCS) [']Cn (LCS) R421455B-2 05/14/25 09:27 Spike Amount LCS Result LCS Rec Rec. Limits LCS Qualifier Analyte ing/l mg/l Sr. Fluoarie 4 83 967 5 00 90 0-110 L1855771-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) GI (OS) L1855771-01 05/14/25 10:03 • (MS) R4214558-3 05/14/25 12:15 • (MSD) R4214558-4 05/14/25 12:27 Spike Amount Original Result MS Result MSD Result MS Rec MSD Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Linits Analyte mg/l ΑI Fluoride 5 00 ND 4.71 4 /5 900 90 B 90 0-110 0.877 20

WG2509998 QUALITY CONTROL SUMMARY Wet Chemistry by Method 3500Cr-B L1855999-01 Method Blank (MB) (MB) R4211753-1 05/08/25 14:18 MB Result MB Qualifier MB MDL MB RDL Analyte mg/l Chromium.Hexavalent U 0.00200 0.00300 Laboratory Control Sample (LCS) Cn (LCS) R4211753-2 05/08/25 14:18 Spike Amount LCS Result LCS Rec Rec Limits LCS Qualifier Analyte 51 mg/i mg/l Chromium.Hexavalent 0.200 0 200 99.8 85 0-115 L1855108-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) GI (OS) L1855108-01 05/08/25 14:18 • (MS) R4211753-3 05/08/25 14:10 • (MSD) R4211753-4 05/08/25 14:19 Spike Amount Original Result MS Result MSD Result MS Rec MSD Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte ъ mg/l nig/i mg/l mg/I 9. ΑI Chromium, Hexavalent 0 200 ND 0 186 0 191 93.0 953 85 0-115 2 41 20

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QUALITY CONTROL SUMMARY WG2509371 Wet Chemistry by Method 4500Cl G-2011 L1855999-01 Method Blank (MB) (MB) R4214714-1 05/14/25 11:06 MB Result MB Qualifier MB MDL MB RDL Analyte mg/l mg/l Chlorine,residual U 0.0415 0 100 Ss L1855868-01 Original Sample (OS) • Duplicate (DUP) [']Cn (OS) L1855868-01 05/14/25 11 09 • (DUP) R4214714-4 05/14/25 11:09 DUP Qualifier DUP RPD Limits Original Result DUP Result Dilution DUP RPD Sr Analyte 96 % Chloring residual ND ND 14.3 20 Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCSD) (LCS) R4214714-2 05/14/25 11:07 • (LCSD) R4214714-3 05/14/25 11:07 Spike Amount LCS Result LCSD Result LCS Rec Rec. Limits LCS Qualifier LCSD Qualifier RPD RPD Limits AI mg/l mg/l

85 0-115

20

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Chlorine_residual

100

0.943

0.937

94.3

93.7



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WG2510018 QUALITY CONTROL SUMMARY Wet Chemistry by Method 5220D £1855999-01 Method Blank (MB) (MB) R4211762-1 05/08/25 13:45 MB Result M8 Qualifier M8 MDL MB ROL Analyte mg/l mg/I mg/l COD U 16.1 35 0 Laboratory Control Sample (LCS) Cn (LCS) R4211762-2 05/08/25 13:45 Spike Amount LCS Result LCS Rec Rec Limits LCS Qualifier Analyle mg/i mg/l Sr COD 507 500 101 80 0-120 L1855109-01 Original Sample (OS) - Matrix Spike (MS) - Matrix Spike Duplicate (MSD) (OS) L1855109-01 05/08/25 13:45 • (MS) R4211762-3 05/08/25 13:45 • (MSD) R4211762-4 05/08/25 14:30 GI Splke Amount Original Result MS Result MSD Result MS Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits ΑI Analyte nig/i mg/l mg/l mg/I ч COD 500 76 / 5/2 568 99.1 98.3 80 0-120 0./43

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WG2513968 QUALITY CONTROL SUMMARY Wet Chemistry by Method 5310C Method Blank (MB) (MB) R4215337-1 05/14/25 20:23 MB Result MB Qualifier MB MDL MB RDL Analyte mg/i nigit TOC (Total Organic Carbon) U 0 270 Laboratory Control Sample (LCS) Cn (LCS) R4215337-2 05/14/25 20:49 Spike Amount LCS Result LCS Qualifler Rec Limits rny/l mg/l TOC (Total Organic Carbon) 10 0 10_5 105 90 0-110 L1855405-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1855405-02 05/14/25 23:13 • (MS) R4215337-3 05/14/25 21:51 • (MSD) R4215337-4 05/14/25 22:11 GI Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec_Limits MS Qualifier MSD Qualifier RPD RPD Limits mg/l mg/l mg/I mg/l % ΑI TOC (Total Organic Carbon) 10.0 12.8 103 100 80 0-120 2.05 20 Sc L1856138-01 Original Sample (OS) - Matrix Spike (MS) - Matrix Spike Duplicate (MSD) (OS) L1856138-01 05/14/25 23:40 • (MS) R4215337-5 05/14/25 22:32 • (MSD) R4215337-6 05/14/25 22:53 Dilution Rec. Limits MS Qualifier MSD Qualifier RPD RPD Lunits

80 0-120

L1855999

0.372

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WG2510012 QUALITY CONTROL SUMMARY Wet Chemistry by Method SM 4500-H+B L1855999-01 L1855450-02 Original Sample (OS) • Duplicate (DUP) (OS) L1855450-02 05/08/25 09:10 • (DUP) R4211526-2 05/08/25 09:10 Original Result DUP Result Dilution DUP RPD <u>DUP Qualifier</u> DUP RPD Limits Analyte 981 ρН 9.80 0.102 20 Sample Narrative: Cn Sr OS 9.8 at 19.3C DUP: 9 8 at 19 2C Laboratory Control Sample (LCS) (LCS) R4211526-1 05/08/25 09:10 Spike Amount LCS Result LCS Rec Rec. Limits LCS Qualifier Analyte GI ρН 6 00 6.02 100 99 0-101 ΑI Sample Narrative: LCS: 6 02 at 20 7C

mg/l

3 42

TOC (Total Organic Carbon) 10.0

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mg/l

13 4

mg/l

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WG2514522 QUALITY CONTROL SUMMARY Wel Chemistry by Method SM4500NH3H Method Blank (MB) (MB) R4215040-I 05/I4/25 17:36 MB Result MB Qualifier MB MDL IAB RDL Analyte mg/l mg/l ngil Ammonia Nitrogen U 0 0280 55 Laboratory Control Sample (LCS) Cn. (LCS) R4215040-2 05/14/25 17:38 Spike Amount LCS Result LCS Rec Rec. Limits LCS Qualifier mg/l mg/i Sr Aminonia Nitrogen 99.2 L1853922-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1853922-01 05/14/25 17:47 • (MS) R4215040-3 05/14/25 17:40 • (MSD) R4215040-4 05/14/25 17:42 GI Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits Anatyte mg/l mg/l nig/I mg/i AI

80 0-120

Dilution Rec_Limits

80 0-120

0 000

0.347

MS Qualifier MSD Qualifier

20

RPD Limits

20

'Sc

4.87

L1855520-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1855520-01 05/14/25 17:50 • (MS) R4215040-5 05/14/25 17:43 • (MSD) R4215040-6 05/14/25 17:45 Spike Amount Original Result MS Result MSD Result MS Rec

mg/l

5.78

mg/I

5 76

mg/l

Ammonia Nitrogen

mg/l

95 5

95.4

MSD Rec

95 0

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WG2514211

Metals (ICP) by Method 200_7

QUALITY CONTROL SUMMARY

L1855999-01

Method Blank (MB) (MB) R4214913-1 05/14/25 19:16

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/I	mg/l
Aluminum	D.		0 0409	0 200
Antimony	ü.		0.00597	0.0100
Arsenic	D.		0.00478	0.0100
Battuni	ti.		0 000675	0.00500
Beryllium	60		0.000354	0.00200
Cidmiuni	8		0 000492	0.00200
Chromium	Ú.		0 000920	0.0100
Copper	0		0 00217	0.0100
Lead	1.0		0.00272	0.00500
Nickel	U)		0 00132	0 0100
Sclenium	Ü		0 00529	0.0100
Silver	U		0.00134	0.00500
Thallium	iii)		988000	0.0100
Zinc	ÜE:		0 00421	0.0500

Laboratory Control Sample (LCS)

(LCS) R4214913-2 0	5/14/25 19:18				
	Spike Amount	LCS Result	LCS Rec	Rec Limits	LCS Qualifier
Analyte	mg/l	mg/l	96	%	
Aluminum	10,0	10.4	104	85 0 115	
Antimony	1.00	1.03	103	85 0-115	
Arsenic	100	1.04	104	85 0-115	
Banuni	100	1.08	108	85 0-115	
Beryllium	100	1.06	106	85 0-115	
Cadmium	100	1.03	103	85_0-115	
Chromium	100	1.06	106	RS 0-115	
Copper	100	1.05	105	85 D-115	
Lead	100	1.01	101	B5 0 115	
Nickel	100	1.02	102	85 0-115	
Selemum	100	103	103	85 0-115	
Silver	0 200	0.200	90.9	85 0-115	
Thallium	100	1.07	107	85 U-115	
Zinc	100	1.05	105	R5 D-115	

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Metals (ICP) by Method 200 7

QUALITY CONTROL SUMMARY

11855999-01

L1855909-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1855909-01 05/14/	25 19:21 · (MS) I	74214913-4 05	/14/25 19:26 -	MSD) R421491;	3-5 05/14/25 1	9:28						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec	MSD Rec	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/I	mg/I	mg/I	mg/I	%	%		ч			٧,	%
Aluminum	10 0	3 16	18 0	18 6	148	154	333	70 0-130	<u>J5</u>	<u>J5</u>	3 23	20
Antimony	100	NO	101	1.03	101	103	1	70.0-130		_	1.14	20
Arsenic	100	ND	104	109	104	109	1	/0 0-130			4.36	20
Barum	109	0.0514	112	1 17	107	112	1	70 0-130			4.40	20
Beryllium	100	ND	1.04	109	104	109	1	70 0-130			4.27	20
Cadmium	100	ND	102	1.07	102	107	A.	70 0-130			4.78	20
Chromium	100	ND	106	1 15	105	110	1	70 0-130			4.46	20
Соррег	100	ND	1.04	109	104	108	31	70 0-130			4.36	20
Lead	100	0.00587	1.01	105	100	105	3	70.0-130			4 25	20
Nickel	100	ND	102	107	102	107	1	70 0-130			4.40	20
Selenium	100	ND	103	108	103	IOB	Υ.	70 0-130			4 74	20
Silver	0.200	ND	0 200	0 209	100	105	1	70 0-130			4.33	20
Thallium	100	ND	0.104	0 0960	10 4	9 60	£	70 0-130	6	<u>J6</u>	8 44	20
Zinc	100	0.0519	108	: 13	103	107	1	70 0-130			3 B6	20

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	Spike Amount	Original Result	MS Result	MSD Result	MS Rec	MSD Rec	Dilution	Rec Limits	MS Qualitier	MSD Qualifier	RPD	RPD Limits
Analyte	nig/l	mg/l	mg/l	mg/l	K.	%		%			%	*
Aluminum	10.0	5 59	21.4	20 4	159	148	15	/0 0-130	<u>J5</u>	<u>J5</u>	4 90	20
Antimony	1.00	ND	1.01	0 935	101	93.5	10	70 0-130	-	_	7.29	20
Arsenic	1.00	ND	1.07	1.00	107	100	1	70.0-130			5.88	20
Ванилі	1.00	0.0550	1 15	109	110	103	*	70 0-130			5.84	20
Beryllium	100	ND	1.07	1 01	107	101	1	70 0-130			5.57	20
Cadmium	1.00	ND	1.05	0.990	105	99.0	17	70 0-130			5.95	20
Chroinium	100	ND	109	102	108	101	1	70 0-130			G 27	20
Copper	1.00	ND	1.08	101	107	100	11	70.0-130			6 32	20
l ead	1.00	0 00697	104	0 976	103	96.9	1.	70 0-130			5 96	20
Nickel	1.00	ND	1.05	U 989	105	98.3	1	70 0-130			6.17	20
Selemuni	1.00	UN	106	100	105	99.7	1	/0 U-13U			5.51	20
Silver	0.200	ND	0.205	0 193	102	96 4	11	70.0-130			5.98	20
Thallium	1.00	ND	0.125	0.0403	12 5	4.03	1	70 0-130	<u>J6</u>		102	20
Zinc	1.00	0.0679	1.12	1.06	105	99.3	10	70.0-130			5.35	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your leport of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclarma - Information that may be provided by the distance, and contained within this report include Paymit Limits, Project Name and Sample ID, Sample Ability, Sample ID, Sample Ability, Sample ID, Sample Ability, Sample Reservation, Fledd Balack, Falled Daylers, Field Disclarates, On-San Data Sampling Collection Dates/Times, and Semiding Location Flessiths, veitable to the accused, of this more method to provide and discharge Location Flessiths, veitable to the accused, of this more method to provide and discharge Location.

Appreviation	Abbreviations and Definitions
NIDL	Nemod Delaction Limit.
8	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit
Rec	Recovery
RPD	Relative Percent Difference
SDG	Sample Delivery Group
C	Nat detected at the Reporting Limit (or MDL where applicable)
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
	With a tradition partial and provide an extension of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o

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Limits	Diuton
These are the target to recovery ranges or "confirmence value that the laboratory has historically determined as normal for the method and analyse percursed or	Admitted, or inconcentrations or analysis in the sample are nighely than the ingress him of concentration that the labeled of the macrate and proof the analysis and possible of or analysis. If a value offerent than I is used in this field, the result reported has already been corrected for this factor.

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Original Sample	Limits
The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG	These are the tatiget % recovery ranges or % difference value that the laboratory has historically determined as normal for the method ard untuly as being reported. Successful OC Sample analysis will target all analyses recovered or duplicated within these ranges.

Qualifier	Original Sample
This column pouldes a later analys multiple designation that corresponds to existing a litternation concerning the result reported in a Dunflier is present a definition per Qualitier is troubled within the Glossay and Dufficions page and potentially a discussion of possible implications of the Qualities in the Case Marriative is highlighted.	The non-spiked Sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.

ar report for this analyte	Castron Distriction Land or RDL Reporting Distriction Limit that defines the lowest value that the laboratory could detect	the dwo Control of the internation in the results could never be accompanied or either an MDL	no measurable result returned for a specific analysis the result in this options may state "ND" (Not Delected) or IBDL"	The actual analytical final result corrected for any sample specific characteristics reported for your sample. If there was

(Radiochemistry) Confidence level of 2 sigma.

Result

	Case Narrative (Cn)	March 2
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Quality Control Summary (Qc)
Sample Chain of Custody (Sc)

Sample Results (Sr)
The section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the makiness performed on each sample. The header line of each analysis section for each sample, will project the same and maction number for the analysis experies.

compre comment (a)	Sample Supprany (Sc)	
analysis.	This section of the Analytical Report defines the specific analyses performed for each sample ID including the dates and	というのである。ののは、そのでは、このでは、このでは、このでは、このでは、このでは、このでは、このでは、こ

Qualifier	Description
æ	The same analyte is found in the associated blank
_	The identification of the analyte is acceptable, the reported value is an estimate
ᇤ	The associated batch QC was outside the established quality control range for precision.
75	The sample matrix interfered with the ability to make any accurate determination; spike value is high
Je	The sample matrix interfered with the ability to make any accurate determination; spike value is low
P	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
18	Sample(s) received past too close to holding time expiration
<	The sample concentration is too high to evaluate accurate spike recoveries

Enviro-Ag Engineering	ACCOUNT
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29 of 44	PASE

Edit-safera by-bloca ACCOUNT

PROJECT: VOLLEMANS PROCESSING

50G

DATE/TIME: 05/21/25 15 50

PAGE: 30 of 44

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12055 Lebanon Rd Mount Juliet, TN 37122

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DC#_Tritle: ENV-FRM-ALLE-0017 v15_Sample Condition Upon Receipt

•		Effective Date:
Dallas		le: 12/18/2023
oft M	Sampl	

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Sample Cond	Sample Condition upon Receipt
□Dallas □Ft Worth	□Corpus Christl □Austin
Client Name: ENVIVO AG Eng Projec Courier: FedeX o UPS o Client ISO o PACE o Other: Tracking #: A JA	Project Work order (place label): Other:
Custody Seal on Cooler/Box: Yes O No DeReceived on ice: Weter Blue O No ice O Received to 1 Thermometer Used: Text Cooler Temp C: 2.1	。 C: 兄・
	(Recorded)
Chain of Custody relinquished	Yes o No a
Sampler name & signature on COC	Yes, d No o
Short HT analyses (<72 hrs)	Yes A No D
Temperature should be show fineting to 6°C unless collected same day as receipt in which evidence of cooling is acceptable	day as receipt in which evidence of cooling is acceptable.
Sufficient Volume received	Yes A-No D
Correct Container used	Yes J- No 🗆
Container Intact	Yes A No a
Sample pH Acceptable	Yes a No o NA o
Residual Chorine Present	Yes o No A NA o
Sulfide Present Lead Acetate Strips: 90744	Yes a No Ar NA a
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes a No a NA.ar
Unpreserved 5035A soil frozen within 48 hrs	Yes D NO D NA-D
Headspace in VOA (>6mm)	Yes O No O NA, A
Project sampled in USDA Regulated Area outside of Texas	Yes D NO D NA &
Non-Conformance(s):	Yes D No D
togin Person: Date:	
	ē
Labeling Person (if different than log-in):	Date:

Pace Analytical Services, LLC 9508 Lorret Blvd Lenexa KS 68219 (913)599-5865

May 21, 2025

Dallas_Sub

RE: Project: L1855999
Pace Project No.: 60474963

Dear Dallas_Sub:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNINELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

alliso Duman

Allison Sherman allison sherman@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Jimmy Huckaba, Pace National Lori Vahrenkamp, Pace National



Qualtrax ID: 48806

Page 1 of 1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC 9608 Loiret Blvd Lenexa, KS 66219 (913)598-5665

CERTIFICATIONS

Project: L1855999
Pace Project No: 60474963

Pace Analytical Services Kansas
9608 Loriet Boulevard, Lanexa, KS 66219
Arbansas Certification #, 88-00679
Colorado Division of Oil and Public Safety
Illinois Certification #, 2000302023-6
lowa Certification #, 118
Kansas/NELAP Certification #, E-90587
Kansas/NELAP Certification #, E-10116

Louisiana Certification # 0.0055
Missouri Inorganic Drinking Water Certification
Nevata Certification # KS0002/2024-1
Olahoma Certification # 0.023-073
Texas Certification # 10.0404/0723-17
Utah Certification # KS0002/2022-13

Pace Analytical Services, LLC 9600 Loiret Blvd Lenexa, KS 66219 (913)599-5665

SAMPLE SUMMARY

Project: L1855999
Pace Project No.: 60474963

Lab IC 60474

74963001 VP-54 Water 05/07/25 08:57 05/10/25 09:00					
	74963001	VP-54	Water	05/07/25 08:57	05/10/25 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L1855999
Pace Project No.: 60474963

1 PASI-	KV	EPA 1664A	VP-54	60474963001 VP-54
Analytes Reported Laborat	Analysts	Method	Sample ID	Lab ID

PASI-K = Pace Analytical Services - Kansas City

Pace Analytical Services, LLC 9608 Loiret Bivd Lenexa, KS 66219 (913)599-5665

ANALYTICAL RESULTS

Project: L1855999
Pace Project No : 60474963

Sample: VP-54 Parameters Results Lab ID: 60474963001 Collected: 05/07/25 08:57 Received: 05/10/25 09:00 Matrix: Water Units Report Limit MDL DF Prepared Analyzed CAS No.

Pace Analytical Services - Kansas City ND mg/L 1.6

05/20/25 10:46

Qual

Analytical Method: EPA 1664A

Oil and Grease HEM, Oil and Grease

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REPORT OF LABORATORY ANALYSIS

Date: 05/21/2025 10:36 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Project No.: 60474963 L1855999

QC Batch Method: EPA 1664A Associated Lab Samples: 60474963001 QC Batch: 935724 Analysis Description: Analysis Method: Laboratory: Pace Analytical Services - Kansas City EPA 1664A 1664 HEM, Oil and Grease

METHOD BLANK: 3708992

Oil and Grease Associated Lab Samples: Parameter 60474963001 mg/L Units Result Matrix: Water 8 Reporting Limit 5.0 MDL 1 3 05/20/25 10:44 Analyzed Qualifiers

Oil and Grease LABORATORY CONTROL SAMPLE: 3708993 Units mg/L 40 LCS Result 34.6 % Rec % Rec 78-114 Qualifiers

Oil and Grease MATRIX SPIKE SAMPLE: Parameter 3708994 Units mg/L 60474072001 Result Spike MS Result 25 9 MS % Rec 65 % Rec 78-114 M1 Qualifiers

SAMPLE DUPLICATE: 3708995

Oil and Grease Parameter Units mg/L 60474072003 Result <49 Dup Result R RPD RPD Qualifiers

Results presented on this page are in the units indicated by the "Units" column supply where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Date: 05/21/2025 10:36 AM

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Date: 05/21/2025 10:36 AM



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QUALIFIERS

Pace Project No: 60474963 L1855999

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot,

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

MDL - Adjusted Method Detection Limit

PQL - Practical Quantitation Limit

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values. 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

MS(D) - Matrix Spike (Duplicate) LCS(D) - Laboratory Control Sample (Duplicate)

RPD - Relative Percent Difference

DUP - Sample Duplicate

NC - Not Calculable

U - Indicates the compound was analyzed for, but not detected SG - Silica Gel - Clean-Up

N-bit readspire hydratine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as Total may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

₹ Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project No: 60474963

Lab ID 60474963001 VP-54 Sample ID EPA 1664A QC Batch Method 935724 QC Batch Analytical Method Analytical Batch

REPORT OF LABORATORY ANALYSIS

Date: 05/21/2025 10:36 AM

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DC#_Title: ENV-FRM-LENE-0009_Sample Conditi 50474963

1100		
Revision: 2	Effective Date: 01/12/2022	022 Issued By: Lenexa
Client Name: PAST Netting	9/	
. ≤	O PEX O ECI O	Pace ☐ Xroads ☐ Client ☐ Other ☐
Tracking #: 4459 6458 13/2	Pace Shipping Label Used?	od Yes D No D
Cooler/Box Present: Yeş/	Seals in	: ĕ □
Thermometer Used: 1-301	Type of ice: (Wet) Blue None	None Coner C
0	Corr. Factor 10-/ Corrected	rted). G Date and initials of person examining contents:
Lemperature should be above freezing to 8°C		W5/12/21
Chain of Custody present:	ØYes □No □N/A	
Chain of Custody relinquished:	DYes ONG ONA	
Samples arrived within holding time:	Yes ONG ONG	
Short Hold Time analyses (<72hr):	DYBS DNO DNIA	
Rush Turn Around Time requested:	DYES OND DNA	
Sufficient volume:	DYes ONO ONA	
Correct containers used:	DYes ONO ONIA	
Pace containers used:	/ Dies Ono Onia	
Containers intact	QYes ONO ONA	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	IS? DYBS DNO ZONIA	
Filtered volume received for dissolved tests?	DYES DINO ZINIA	
Sample labels match COC: Date / time / ID / analyses	Dres ONO OWA	
Samples contain multiple phases? Matrix: 6	JT DYBS DNO DNIA	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCk-2; NaOH>9 Sulfide, NaOH>10 Cyanide)	□Yes □No ZNIA	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Exceptions: VOA Micro, O&G, KS TPH, OK-DRO) Cyanide water sample checks:	LOT#	
Potassium iodide test strip turns blue/purple? (Preserve)	B) OYes ON6	
Trip Blank present:	DYES DNO DÁIA	
Headspace in VOA vials (>6mm):	DYes DNo DINA	
Samples from USDA Regulated Area: State:	DYes DN6 DNVA	
Additional labels attached to 5035A / TX1005 vials in the field? Uves		
Client Notification/ Resolution: Copy	Copy COC to Client? Y / N	Field Data Required? Y / N
Comments/ Resolution:		
Project Manager Review:	Date	

Qualtrax Document ID: 30468

Page 1 of 1 Page 9 of 11

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Received by:	Relinquished by	Received by SAPAL	VP.54 L-Cir-WT-HCI- SS1430677 WW TX 05/07/2/ SS1430678 SS 1430678 SS 1430678 SS 1430678 Container used for multiple Samples and or Analyses	Sample ID Container ID	Sub-Cor Batch Date/Time; 05/08/25/01/01/05/08/25/01/07/05/14/05/05/14/05/05/05/05/05/05/05/05/05/05/05/05/05/
Dute	Date	1 Date 2- 8-25	WW TX 05/97/25 Oil & Grease (Hexane Extr)	MatrixState Collect Date Description	Sub-Contract Chain of Custody and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01 and (200,2541) 01
			1664A L1855999-01	Method Sample Number Lab Use Only	Face Analytical Face Analytical and W. Hietham, Done Same, 180 Alten TX 78013 Phone (1872) 27-112
				Sample Comments Lab Use Only	Pace Analytical Pace Analytical Alten TX 75013 Phone (472) 727-1123

DC#_Title_ENV-FRM-LENE-0001 v07_Sample Container Count Effective Date 7/12/2024 PAST National 14832-6 Profile/EZ# L1855999 Notes DG90 DG9M NG90 DGBD BG10 AG4U VG9H AG10 AGSU H190 ~ COC AG2U AG3S JGFU BP1U BP3N BP3F BP3S WPDU BP2U вьзв BP3Z wT 2 0 3. 36 36 7 38 9 10 13 12 Container Codes WGRU WGPU WGPU JGFU AGOU AG1H AG1S AG1T AG1U AG2N AG2S Plastic
IL NAOH plastic
IL HNOO plastic
IL HNOO plastic
IL H2SO4 plastic
IL ungerserved plastic
IL ungerserved plastic
Soomit, NAOH plastic
Soomit, NAOH plastic
Soomit, H2SO4 plastic
Soomit, H2SO4 plastic
Soomit, H2SO4 plastic
Soomit, H2SO4 plastic
Soomit, H2SO4 plastic
Soomit, H2SO4 plastic 40mL bisulfate clear vial 40mL HCl amber voa vial 40mL TSP amber vial 40mL TSP amber vial 40mL H2SO4 amber vial 40mL amber unpreserved 40mL amber unpreserved 40mL HCl clear vial 40mL Na Thio clear vial 40mL Na Thio clear vial DG98 DG9H DG9M DG9S DG9S DG9T DG9U VG9H VG9T VG9U BG1S BG1U BG3H BG3H BG3U WGDU Misc. 8oz clear soil jar 4oz clear soil jar BP1B BP1N BP1S BP1U BP1Z BP2B BP2N Wisc.
Wipe/Swah
120ml, Collform Na Thiosulfate
Ziptoc Bag
Air Filter
Air Cassettes
Terracore Kit
Summa Can SP5T ZPLC 40z clear soil jar 20z clear soil jar 40z unpreserved amber wide 100mL uncres amber glass 1L HCl amber glass 1L H2SO4 amber glass 1L H2SO4 amber glass
1, Na Thiosulfate clear/amber glass
1Mar unpres amber glass
500mt, H3C03 amber glass
500mt, H2SO4 amber glass
250mt, H2SO4 amber glass
500mt, unpres amber glass
250mt, unpres amber glass
125mt, unpres amber glass
125mt, unpres amber glass
125mt, unpres amber glass
100mt, unpres amber glass 40ml, unpreserved clear vial 1liter H2SO4 clear glass South, unpreserved passic South, NaOH, Zn Acetate 250mt, NaOH plastic 250mt, HNO3 plastic - field fillered 250mt, HNO3 plastic 250mt, HNO3 plastic 250mt, H250d plastic 250mt, NaOH, Zn Acetate 250mt, NaOH, Zn Acetate BP2Z BP3B BP3F BP3N BP3U BP3S BP3Z BP4U BP4N BP4S WPDU Matrix AG3S AG2U AG3U AG4U AG5U 1liler unpres glass 250mt. HCt. Clear glass 250mt. Unpres Clear glass 16oz clear soil jar Non-aqueous Liquid Oil. Wipe Drinking Waler 125mL unpreserved plastic 125mL HNO3 plastic 125mL HI2SO4 plastic 125mL HI2SO4 plastic 16oz unpresserved platic DW Work Order Number

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Quatrax ID 30422

60174963

Pace® Analytical Services, LLC

Page t of I

Leah Whallon

From: Jourdan Mullin <jmullin@enviroag.com>

Sent: Friday, June 20, 2025 2:43 PM

To: Leah Whallon Cc: Corey Mullin

Subject: RE: Application to Renew Permit No. WQ0005282000; Volleman Dairy Processing Plant

Attachments: ADJACENT LANDOWNER LABELS.docx

Follow Up Flag: Follow up Flag Status: Flagged

Good Friday Afternoon Leah,

I have reviewed the NORI and everything is correct as shown. Attached is the word document of the Adjacent Landowner Labels . Please let me know if you have any questions or require any additional information.

Respectfully,

Jourdan Mullin

Enviro-Ag Engineering, Inc. 9855 FM 847 Dublin, TX 76446

254/965-3500 – Work 806/679-5570 - Mobile

From: Corey Mullin <cmullin@enviroag.com>

Sent: Friday, June 20, 2025 12:55 PM

To: Jourdan Mullin < jmullin@enviroag.com>

Subject: Fw: Application to Renew Permit No. WQ0005282000; Volleman Dairy Processing Plant

Sent via the Samsung Galaxy S25+, an AT&T 5G smartphone

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From: Leah Whallon < Leah. Whallon@Tceq.Texas.Gov >

Sent: Friday, June 20, 2025 12:31:45 PM **To:** Corey Mullin < cmullin@enviroag.com >

Cc: frank@wildcatmilk.com <frank@wildcatmilk.com>

Subject: Application to Renew Permit No. WQ0005282000; Volleman Dairy Processing Plant

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Good Afternoon,

Please see the attached Notice of Deficiency letter dated June 20, 2025 requesting additional information needed to declare the application administratively complete. Please send the complete response by July 4, 2025.

Please let me know if you have any questions.

Thank you,



Leah Whallon

Texas Commission on Environmental Quality Water Quality Division 512-239-0084 leah.whallon@tceq.texas.gov

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SUZANNE A MITCHELL JAMES R WEAVER JAMES W LITTLEJOHN 801 GRAND AVE 1401 CR 232 PO BOX 53 COMANCHE, TX 76442 GUSTINE, TX 76455 GUSTINE, TX 76455

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