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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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.

City of Meadow (CN600755029) operates Meadow Wastewater Treatment Plant RN101920015. a Wastewater treatment plant. The facility is located approximately 2.0 mi N of intersection FM 211 and US HWY 62., in Meadow, Terry County, Texas 79345.

The City of Meadow is requesting the renewal of their Wastewater Permit<<*For TLAP applications include the following sentence, otherwise delete:*>> This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, and zinc. Municipal solid waste from residential and commercial sources is treated by *monitoring* Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010346001

APPLICATION. City of Meadow, 906 1st Street, Meadow, Texas 79345, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010346001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 50,000 gallons per day via irrigation of 119 acres of land. The wastewater treatment facility and disposal area are located at 344 US Highway 82, in the city of Meadow, in Terry County, Texas 79345. TCEQ received this application on June 5, 2024. The permit application will be available for viewing and copying at Meadow City Hall, main office, 906 1st Street, Meadow, 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=-102.199722,32.349722&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.**

TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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 City of Meadow at the address stated above or by calling Ms. Terri McClanahan, City Secretary, at 806-539-2377.

Issuance Date: July 15, 2024

JACOB MARTIN

INTEGRITY
EXCELLENCE
TRUST

May 30, 2024

Executive Director
Applications Review and Processing Team (MC148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

RE: Application for Renewal of a Wastewater Treatment Plant Permit
City of Meadow
Permit No. WQ0010346001
RN101920015 /CN600755029
Renewal of Existing Permit

Dear TCEQ:

Enclosed are the original and three copies of the application and related documents to renew Permit No. WQ0010346001.

A check for payment of application fees in the amount of $515.00 has been directed to your revenues section. A copy of this check has been attached to the above-mentioned permit renewal documents.

If you have any questions, please feel free to contact me at our Abilene office (325) 695-1070 or email me at sfernandez@jacobmartin.com. Thank you for your assistance.

Sincerely,

Sarah Fernandez

JACOB | MARTIN

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: CITY OF MEADOW

PERMIT NUMBER (If new, leave blank): WQ00 10346001

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

	Y	N
Administrative Report 1.0	☒	☐
Administrative Report 1.1	☒	☐
SPIF	☒	☐
Core Data Form	☒	☐
Public Involvement Plan Form	☐	☒
Technical Report 1.0	☒	☐
Technical Report 1.1	☐	☒
Worksheet 2.0	☐	☒
Worksheet 2.1	☐	☒
Worksheet 3.0	☒	☐
Worksheet 3.1	☐	☒
Worksheet 3.2	☐	☒
Worksheet 3.3	☐	☒
Worksheet 4.0	☐	☒
Worksheet 5.0	☐	☒
Worksheet 6.0	☐	☒
Worksheet 7.0	☐	☒

	Y	N
Original USGS Map	☒	☐
Affected Landowners Map	☐	☒
Landowner Disk or Labels	☐	☒
Buffer Zone Map	☐	☒
Flow Diagram	☒	☐
Site Drawing	☒	☐
Original Photographs	☐	☒
Design Calculations	☐	☒
Solids Management Plan	☐	☒
Water Balance	☐	☒

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: 463

Check/Money Order Amount: 515.00

Name Printed on Check: City of Meadow

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

a. Check the box next to the appropriate authorization type.

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

c. Check the box next to the appropriate permit type.

- ☐ TPDES Permit
- ☒ TLAP
- ☐ TPDES Permit with TLAP component
- ☐ Subsurface Area Drip Dispersal System (SADDS)

d. Check the box next to the appropriate application type

- ☐ New
- ☐ Major Amendment *with* Renewal
- ☐ Major Amendment *without* Renewal
- ☒ Renewal without changes
- ☐ Minor Amendment *with* Renewal
- ☐ Minor Amendment *without* Renewal
- ☐ Minor Modification of permit

e. For amendments or modifications, describe the proposed changes: Click to enter text.

f. For existing permits:

Permit Number: WQ00 10346001

EPA I.D. (TPDES only): TX Click to enter text.

Expiration Date: 12/01/2024

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

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

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

CITY OF MEADOW

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

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

CN: 600755029

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

Prefix: Ms. Last Name, First Name: Howard, Natalie

Title: Mayor Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

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

Title: Click to enter text. Credential: Click to enter text.

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Ms. Last Name, First Name: McClanahan, Terri

Title: City Administrator Credential: Click to enter text.

Organization Name: City of Meadow

Mailing Address: 906 1st St Meadow City, State, Zip Code: Meadow, TX 79345

Phone No.: (806) 539-2377 E-mail Address: cityofmeadow@yahoo.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mrs. Last Name, First Name: Fernandez, Sarah

Title: Environmental Coordinator Credential: Click to enter text.

Organization Name: Jacob Martin

Mailing Address: 3465 Curry Lane City, State, Zip Code: Abilene, TX 79606

Phone No.: 325-695-1070 E-mail Address: sfernandez@jacobmartin.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Ms. Last Name, First Name: McClanahan, Terri

Title: City Administrator Credential: Click to enter text.

Organization Name: City of Meadow

Mailing Address: 906 1st St Meadow City, State, Zip Code: Meadow, TX 79345

Phone No.: (806) 539-2377 E-mail Address: cityofmeadow@yahoo.com

B. Prefix: Mrs. Last Name, First Name: Fernandez, Sarah

Title: Environmental Coordinator Credential: Click to enter text.

Organization Name: Jacob Martin

Mailing Address: 3465 Curry Lane City, State, Zip Code: Abilene, Tx 79606

Phone No.: 325-695-1070 E-mail Address: sfernandez@jacobmartin.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Ms. Last Name, First Name: McClanahan, Terri

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Meadow

Mailing Address: 906 1st St Meadow City, State, Zip Code: Meadow, TX 79345

Phone No.: (806) 539-2377 E-mail Address: cityofmeadow@yahoo.com

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

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

Prefix: Ms. Last Name, First Name: McClanahan, Terri

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Meadow

Mailing Address: 906 1st St Meadow City, State, Zip Code: Meadow, TX 79345

Phone No.: (806) 539-2377 E-mail Address: cityofmeadow@yahoo.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mrs. Last Name, First Name: Fernandez, Sarah

Title: Environmental Coordinator Credential: Click to enter text.

Organization Name: Jacob Martin

Mailing Address: 3465 Curry Lane City, State, Zip Code: Abilene, TX 79606

Phone No.: 325-695-1070 E-mail Address: sfernandez@jacobmartin.com

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms. Last Name, First Name: McClanahan, Terri

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Meadow

Mailing Address: 906 1st St Meadow City, State, Zip Code: Meadow, TX 79345

Phone No.: (806) 539-2377 E-mail Address: cityofmeadow@yahoo.com

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Public building name: Meadow City Hall

Location within the building: Main office

Physical Address of Building: 906 1st St Meadow

City: Meadow County: Terry

Contact (Last Name, First Name): McClanahan, Terri

Phone No.: (806) 539-2377 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

   ☐ Yes ☒ No

   If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

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

   ☐ 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

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? Click to enter text.

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

Attachment: #1

G. Public Involvement Plan Form

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a **new permit or major amendment to a permit** and include as an attachment.

Attachment: Click to enter text.

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 29)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 101920015

Search the TCEQ's Central Registry at http://www15.tceq.texas.gov/crpub/ to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

CITY OF MEADOW WWTP

C. Owner of treatment facility: CITY OF MEADOW

Ownership of Facility: ☒ Public ☐ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

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

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

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

Phone No.: Click to enter text. E-mail Address: Click to enter text.

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

E. Owner of effluent disposal site:

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

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Boyce Varner Estate Trust

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

Phone No.: Click to enter text. E-mail Address: Click to enter text.

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

F. Owner sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant)::

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

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

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

Phone No.: Click to enter text. E-mail Address: Click to enter text.

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

A. Is the wastewater treatment facility location in the existing permit accurate?

☐ Yes ☐ No

If **no, or a new permit application**, please give an accurate description:

Click to enter text.

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☐ No

If **no, or a new or amendment permit application**, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

Click to enter text.

City nearest the outfall(s): Click to enter text.

County in which the outfalls(s) is/are located: Click to enter text.

C. 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:

☐ Authorization granted ☐ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment: Click to enter text.

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.

Section 11. TLAP Disposal Information (Instructions Page 32)

A. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☒ Yes ☐ No

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

Click to enter text.

B. City nearest the disposal site: MEADOW

C. County in which the disposal site is located: TERRY

D. For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

The effluent flows via pipe from each stabilization pond to the final stabilization/holding pond; thence via pipe to the irrigation site.

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Double Mountain Fork Brazos River

Section 12. Miscellaneous Information (Instructions Page 32)

A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

Click to enter text.

C. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☒ Yes ☐ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: Charles Keith and David Hudson

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

Indicate which attachments are included with the Administrative Report. Check all that apply:

☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☒ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary
- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Click to enter text.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010346001

Applicant: CITY OF MEADOW

Certification:

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

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

Signatory name (typed or printed): Natalie Howard

Signatory title: Mayor

Signature: Natalie Howard Date: 4-18-2024

(Use blue ink)

Subscribed and Sworn to before me by the said NATALIE HOWARD

on this EIGHTEENTH day of APRIL, 20 24.

My commission expires on the 28TH day of SEPTEMBER, 20 25.

Notary Public

[SEAL]

TERRI MCCLANAHAN
Notary ID #128020657
My Commission Expires
September 28, 2025

TERRY
County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

- ☐ The applicant's property boundaries
- ☐ The facility site boundaries within the applicant's property boundaries
- ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☐ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☐ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☐ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

☐ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Click to enter text.

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.

Section 2. Original Photographs (Instructions Page 38)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

- ☐ 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

Section 3. Buffer Zone Map (Instructions Page 38)

A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.

- The applicant's property boundary;
- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.

B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.

- ☐ Ownership
- ☐ Restrictive easement
- ☐ Nuisance odor control
- ☐ Variance

C. Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?

☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: #2

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

Prefix (Mr., Ms., Miss): Click to enter text.

Full legal name (Last Name, First Name, Middle Initial): Click to enter text.

Driver's License or State Identification Number: Click to enter text.

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone Number: Click to enter text. Fax Number: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

Core Data Form (TCEQ Form No. 10400) ☒ Yes
(Required for all application types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)

Correct and Current Industrial Wastewater Permit Application Forms ☒ Yes
(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)

Water Quality Permit Payment Submittal Form (Page 19) ☒ Yes
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

7.5 Minute USGS Quadrangle Topographic Map Attached ☒ Yes
(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)

Current/Non-Expired, Executed Lease Agreement or Easement ☒ N/A ☐ Yes

Landowners Map ☒ N/A ☐ Yes
(See instructions for landowner requirements)

Things to Know:

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

Landowners Cross Reference List ☒ N/A ☐ Yes
(See instructions for landowner requirements)

Landowners Labels or USB Drive attached ☒ N/A ☐ Yes
(See instructions for landowner requirements)

Original signature per 30 TAC § 305.44 – Blue Ink Preferred ☒ Yes
(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)

Plain Language Summary ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

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

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): 0.05

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

B. Interim II Phase

Design Flow (MGD): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

D. Current Operating Phase

Provide the startup date of the facility: Click to enter text.

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

Meadow Wastewater Treatment Facility consists of a pond system which includes two stabilization ponds, a stabilization pond for storage followed by and irrigation storage pond of treated effluent prior to irrigation.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Pond 1	1	90x110x5
Pond 2	1	105x155x5
Pond 3	1	235x275x3
Pond 4	1	230x110x5

C. Process Flow Diagram

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

Attachment: #3

Section 3. Site Information and Drawing (Instructions Page 44)

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

- Latitude: Click to enter text.
- Longitude: Click to enter text.

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

- Latitude: Click to enter text.
- Longitude: Click to enter text.

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: #2

Provide the name **and** a description of the area served by the treatment facility.

Click to enter text.

Collection System Information **for wastewater TPDES permits only**: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
		Choose an item.	
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

Is the application for a renewal of a permit that contains an unbuilt phase or phases?

☐ Yes ☒ No

If yes, does the existing permit contain a phase that has not been constructed **within five years** of being authorized by the TCEQ?

☐ Yes ☐ No

If yes, provide a detailed discussion regarding the continued need for the unbuilt phase. **Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases**.

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

If yes, was a closure plan submitted to the TCEQ?

☐ Yes ☐ No

If yes, provide a brief description of the closure and the date of plan approval.

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: 06/01/1961

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable**.

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

Boyce Verner Trust lease and deed

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☐ Yes ☒ No

If yes, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?

☐ Yes ☒ No

If No, stop here and continue with Subsection E. Stormwater Management.

2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

Click to enter text.

3. Grit disposal

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☐ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

Click to enter text.

4. ***Grease and decanted liquid disposal***

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

Click to enter text.

E. Stormwater management

1. ***Applicability***

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☐ Yes ☒ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☐ Yes ☒ No

If no to both of the above, then skip to Subsection F, Other Wastes Received.

2. ***MSGP coverage***

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☐ Yes ☐ No

If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 Click to enter text. or TXRNE Click to enter text.

If no, do you intend to seek coverage under TXR050000?

☐ Yes ☐ No

3. ***Conditional exclusion***

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☐ No

If yes, please explain below then proceed to Subsection F, Other Wastes Received:

Click to enter text.

4. ***Existing coverage in individual permit***

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☐ No

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

Click to enter text.

5. ***Zero stormwater discharge***

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☐ No

If yes, explain below then skip to Subsection F. Other Wastes Received.

Click to enter text.

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. ***Request for coverage in individual permit***

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☐ No

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

Click to enter text.

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
Click to enter text.

G. Other wastes received including sludge from other WWTPs and septic waste

1. Acceptance of sludge from other WWTPs

Does or will the facility accept sludge from other treatment plants at the facility site?

☐ Yes ☒ No

If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.

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

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

If yes, does the facility have a Type V processing unit?

☐ Yes ☐ No

If yes, does the unit have a Municipal Solid Waste permit?

☐ Yes ☐ No

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

Click to enter text.

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

3. ***Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)***

Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	67.0	-	1	Grab	05/08/24 15:55
Total Suspended Solids, mg/l	139	-	1	Grab	05/08/24 15:55

Ammonia Nitrogen, mg/l	0.160	-	1	Grab	05/08/24 15:55
Nitrate Nitrogen, mg/l	0.0728	-	1	Grab	05/08/24 15:55
Total Kjeldahl Nitrogen, mg/l	21.5	-	1	Grab	05/08/24 15:55
Sulfate, mg/l	274	-	1	Grab	05/08/24 15:55
Chloride, mg/l	522	-	1	Grab	05/08/24 15:55
Total Phosphorus, mg/l	2.28	-	1	Grab	05/08/24 15:55
pH, standard units	9.32	-	1	Grab	05/08/24 15:55
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l	<1.00				
E.coli (CFU/100ml) freshwater	490		1	Grab	05/08/24 15:55
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l	1830		1	Grab	05/08/24 15:55
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: CORY W NEEDHAM

Facility Operator's License Classification and Level: WASTEWATER TREATMENT OPERATOR A

Facility Operator's License Number: WW0042540

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☐ Design flow>= 1 MGD
- ☐ Serves >= 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user – land application (onsite)
- ☐ Biosolids end user – surface disposal (onsite)
- ☐ Biosolids end user – incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery

☒ Other Treatment Process: Permitted Landfill

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Click to enter text.

D. Disposal site

Disposal site name: Charters Waste

TCEQ permit or registration number: H2158

County where disposal site is located: Lubbock

E. Transportation method

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

Name of the hauler: Truck

Hauler registration number: Duncan Disposal of Lubbock

Sludge is transported as a:

Liquid ☐ semi-liquid ☒ semi-solid ☐ solid ☐

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	☐ Yes	☒ No
Marketing and Distribution of sludge	☐ Yes	☒ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☒ No
Temporary storage in sludge lagoons	☐ Yes	☒ No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☒ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:

  Attachment: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☐ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If yes, provide the TCEQ authorization number and description of the authorization:

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☐ Yes ☒ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

Click to enter text.

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

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

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - 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: Natalie Howard

Title: Mayor

Signature: Natalie Howard

Date: 4-18-2024

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

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

Click to enter text.

B. Regionalization of facilities

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment[1].

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

1. Municipally incorporated areas

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. Utility CCN areas

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

☐ Yes ☐ No

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

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

Attachment: Click to enter text.

3. ***Nearby WWTPs or collection systems***

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): Click to enter text.

Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): Click to enter text.

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

Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD_5 from all sources		

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

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: Click to enter text. mg/l after Click to enter text. minutes detention time at peak flow

Dechlorination process: Click to enter text.

☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 59)

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

Attachment: Click to enter text.

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?

☐ Yes ☐ No

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

Click to enter text.

Provide the source(s) used to determine 100-year frequency flood plain.

Click to enter text.

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☐ No

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If yes, provide the permit number: Click to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.

B. Wind rose

Attach a wind rose: Click to enter text.

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

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

☐ Yes ☐ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: Click to enter text.

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: Click to enter text.

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: Click to enter text.

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☐ No

If **no**, proceed it Section 2. **If yes**, provide the following:

Owner of the drinking water supply: Click to enter text.

Distance and direction to the intake: Click to enter text.

Attach a USGS map that identifies the location of the intake.

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

If **no**, proceed to Section 3. **If yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: Click to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from outfall(s).

Click to enter text.

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from the outfall(s).

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

Is the discharge directly into (or within 300 feet of) a classified segment?

☐ Yes ☐ No

If yes, this Worksheet is complete.

If no, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

Average depth of the entire water body, in feet: Click to enter text.

Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text.

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☐ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

Click to enter text.

D. Downstream characteristics

Do the receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.)?

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

Provide general observations of the water body during normal dry weather conditions.

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

☐ Oil field activities
☐ Upstream discharges
☐ Septic tanks
☐ Urban runoff
☐ Agricultural runoff
☐ Other(s), specify: Click to enter text.

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: Click to enter text.

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 66)

Date of study: Click to enter text. Time of study: Click to enter text.

Stream name: Click to enter text.

Location: Click to enter text.

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: Click to enter text.

Number of stream bends that are moderately defined: Click to enter text.

Number of stream bends that are poorly defined: Click to enter text.

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Click to enter text.

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 66)

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

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

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

Number of lateral transects made: Click to enter text.

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

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

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

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

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☒ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Other (describe in detail): Click to enter text.
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

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

Section 2. Land Application Site(s) (Instructions Page 68)

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Agricultural - Cotton, Wheat	119	50,000	N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 68)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	0.20	0.69	5x90x110	Clay
2	0.35	1.23	5x105x155	Clay
3	1.45	3.92	3'Dx275'Wx235'L	Clay
4	0.80	2.95	5'Dx110'Wx230L'	Clay

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Click to enter text.

Section 4. Flood and Runoff Protection (Instructions Page 68)

Is the land application site within the 100-year frequency flood level?

☐ Yes ☒ No

If yes, describe how the site will be protected from inundation.

Click to enter text.

Provide the source used to determine the 100-year frequency flood level:

FEMA and USGS contour map

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

If the site irrigates the volume will be at a level to not produce runoff. The field to irrigate is at a higher surface elevation than the surrounding flat pasture

Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: #7

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

Section 6. Well and Map Information (Instructions Page 69)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: #2

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

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

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
39991	Irrigation	Y	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
66379	Domestic	Y	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
128085	Irrigation	Y	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
177228	Irrigation	Y	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
359342	Irrigation	Y	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
561353	Domestic	Y	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
588650	Domestic	Y	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
632217	Irrigation	Y	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS

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

Attachment: #2

Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: #2

Are groundwater monitoring wells available onsite? ☒ Yes ☐ No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? ☐ Yes ☒ No

If yes, provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: Click to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 70)

A. Soil map

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

Attachment: #7

B. Soil analyses

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

Attachment: NA

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☒ Yes ☐ No

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
4/2024	0.002	57.2	119	7.8		119
3/2024	0.001	52.3	119	7.9		119
2/2024	0.001	57.2	110	7.9		119
1/2024	0.001	38.5	125	8.5		119
12/2023	0.001	50	53	8.7		119
11/2023	0.002	50	39.2	8.7		119
10/2023	0.002	32.3	48.5	8.8		119
09/2023	0.002	36.5	87	8.6		119
08/2023	0.002	35.3	79.3	8.8		119
07/2023	0.001	30	73	8.6		119
06/2023	0.001	33.4	142	8.3		119
05/2023	0.001	72.4	114	8.4		119
04/2023	0.002	33.4	142	8.3		119
03/2023	0.001	53.2	137	8.4		119
02/2023	0.001	40	174	8.7		119

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
01/2023	0.001	28	101	8.6		119
12/2022	0.001	85	356	8.7		119
11/2022	0.001	39.4	43.7	8.0		119
10/2022	0.002	35	92	8.6		119
09/2022	0.002	32.6	133	8.3		119
08/2022	0.003	50	53	8.6		119
07/2022	0.002	41.2	50	8.9		119
06/2022	0.002	37.1	41	8.9		119
05/2022	0.001	37.93	128	8.8		119

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Click to enter text.

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

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

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

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

Design application frequency:

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

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

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

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

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

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

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

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

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

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

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

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

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

Attachment: Click to enter text.

D. Overland flow

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

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

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

Slope length, in feet: Click to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click to enter text.

Design application frequency:

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

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

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

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

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: Click to enter text.

Application area, in acres: Click to enter text.

Area of drainfield, in square feet: Click to enter text.

Application rate, in gal/square foot/day: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

Area of trench, in square feet: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Number of beds: Click to enter text.

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

Infiltration rate, in inches/hour: Click to enter text.

Storage volume, in gallons: Click to enter text.

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

Soil Classification: Click to enter text.

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of *§* 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

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

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

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

Section 1. Administrative Information (Instructions Page 75)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. Click to enter text. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

Click to enter text.

C. Owner of the subsurface area drip dispersal system: Click to enter text.

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☐ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☐ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 75)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

Infiltration Rate, in inches/hour: Click to enter text.

Average slope of the application area, percent (%): Click to enter text.

Maximum slope of the application area, percent (%): Click to enter text.

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☐ Yes ☐ No

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☐ No

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: Click to enter text.

Nitrogen application rate, in lbs/gal/day: Click to enter text.

D. Dosing information

Number of doses per day: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Rest period between doses, in hours: Click to enter text.

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

Number of zones: Click to enter text.

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☐ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79*.

Attachment: Click to enter text.

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73*.

Attachment: Click to enter text.

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75*.

Attachment: Click to enter text.

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157*.

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☐ No

B. Flood map

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

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 76)

A. Buffer Map

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

Attachment: Click to enter text.

B. Buffer variance request

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

☐ Yes ☐ No

If yes, then attach the additional information required in *30 TAC § 222.81(c).*

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 76)

A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☐ Composite ☐

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

Table 4.0(1) – Toxics Analysis

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

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

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

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

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

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

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

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

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

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

Table 4.0(2)B – Volatile Compounds

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

Table 4.0(2)C – Acid Compounds

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

Table 4.0(2)D – Base/Neutral Compounds

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

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

Table 4.0(2)E - Pesticides

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

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a “<”.

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

Click to enter text.

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☐ No

If **yes**, provide a brief description of the conditions for its presence.

Click to enter text.

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: Click to enter text.

48-hour Acute: Click to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

☐ Yes ☐ No

If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Click to enter text.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: Click to enter text.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☐ No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☐ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: NA

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

Click to enter text.

C. Product and service information

Provide a description of the principal product(s) or services performed.

Click to enter text.

D. Flow rate information

See the Instructions for definitions of “process” and “non-process wastewater.”

Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ Yes ☐ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☐ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

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

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

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

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

5. **Latitude and Longitude, in degrees-minutes-seconds**

Latitude: Click to enter text.

Longitude: Click to enter text.

Method of determination (GPS, TOPO, etc.): Click to enter text.

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: Click to enter text.

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: Click to enter text.

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Click to enter text.

2. Receiving Formation Name of Injection Zone: Click to enter text.

3. Well/Trench Total Depth: Click to enter text.

4. Surface Elevation: Click to enter text.

5. Depth to Ground Water: Click to enter text.

6. Injection Zone Depth: Click to enter text.

7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

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

Name: Click to enter text.

Thickness: Click to enter text.

8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.

13. Maximum injection Rate/Volume/Pressure: Click to enter text.

14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.

15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click to enter text.

16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.

17. Sampling frequency: Click to enter text.

18. Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

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

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

Class V Injection Well Designations

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

City of Meadow
WWTP Irrigation Application
Terry County, Texas
December 2024

ATTACHMENT #1

TCEQ Core Data Form, Plain Language Summary & Application Fee Check

Prepared By:

JACOB MARTIN

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Project #: 17390

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TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*

CN 600755029

Follow this link to search for CN or RN numbers in Central Registry**

3. Regulated Entity Reference Number *(if issued)*

RN 101920015

SECTION II: Customer Information

4. General Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy)

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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

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

If new Customer, enter previous Customer below:

CITY OF MEADOW

7. TX SOS/CPA Filing Number

8. TX State Tax ID (11 digits)

9. Federal Tax ID (9 digits)

10. DUNS Number *(if applicable)*

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

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

12. Number of Employees

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

13. Independently Owned and Operated?

☒ Yes ☐ No

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

☒ Owner ☐ Operator ☐ Owner & Operator ☐ Other:

☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address:

906 1ST ST

City	State	ZIP	ZIP + 4
MEADOW	TX	79345	

16. Country Mailing Information *(if outside USA)*

17. E-Mail Address *(if applicable)*

cityofmeadow@yahoo.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(806) 539-2377		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

CITY OF MEADOW WWTP

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	334 US Highway 82							
	City	Meadow	**State**	TX	**ZIP**	79345	**ZIP + 4**	
24. County	Terry							

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

25. Description to Physical Location:	Located approximately 2.0 mi N of intersection FM 211 and US HWY 62.				
26. Nearest City			**State**		**Nearest ZIP Code**
Meadow			TX		79345

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

27. Latitude (N) In Decimal:	33.351360,		**28. Longitude (W) In Decimal:**	-102.1999	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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

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

34. Mailing Address:	**906 1st St Meadow**							
	City	**Meadow**	**State**	**TX**	**ZIP**	**79345**	**ZIP + 4**	
35. E-Mail Address:	**cityofmeadow@yahoo.com**							

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(806) 539-2377		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Sarah Fernandez	**41. Title:**	Environmental Coordinator
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(325) 695-1070		( ) -	sfernandez@jacobmartin.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:	City of Meadow	**Job Title:**	Mayor	
Name *(In Print):*	Natalie Howard		**Phone:**	(806) 539- 2377
Signature:	Natalie Howard		**Date:**	4-18-2024

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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.

City of Meadow (CN600755029) operates Meadow Wastewater Treatment Plant RN101920015. a Wastewater treatment plant. The facility is located approximately 2.0 mi N of intersection FM 211 and US HWY 62., in Meadow, Terry County, Texas 79345.

The City of Meadow is requesting the renewal of their Wastewater Permit<<*For TLAP applications include the following sentence, otherwise delete:*>> This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, and zinc. Municipal solid waste from residential and commercial sources is treated by *monitoring* Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package

City of Meadow
WWTP Irrigation Application
Terry County, Texas
December 2024

ATTACHMENT #2

USGS Topographic Map/ SPIFF With location of wells, and boundaries of application area

Prepared By:

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: CITY OF MEADOW

   Permit No. WQ00 10346001 EPA ID No. TX

   Address of the project (or a location description that includes street/highway, city/vicinity, and county):

   Located approximately 2.0 mi N of intersection FM 211 and US HWY 62.

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Ms.

First and Last Name: Terri McClanahan

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: City Administrator

Mailing Address: 906 1st St Meadow

City, State, Zip Code: Meadow, TX 79345

Phone No.: (806) 539-2377 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: cityofmeadow@yahoo.com

2. List the county in which the facility is located: Terry
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

Boyce Verner Trust

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

The disposal site is located in the drainage area of Lake J.B. Thomas in Segment No. 14'13 of the Colorado River Basin. No discharge of pollutants into water in the State is authorized by this permit

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☐ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☐ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

N/A

2. Describe existing disturbances, vegetation, and land use:

N/A

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

Click here to enter text.

4. Provide a brief history of the property, and name of the architect/builder, if known.

Click here to enter text.

Well Repor	Well Type	Proposed U	County	Well Owner	Well Street	Well City	Well Zip Co	Latitude (D	Longitude (	Date of Wel	Borehole D	Injurious W
39991	New Well	Irrigation	Terry	Joe Dale Doak				33.33695	-102.201	15-Mar-04	145	
66379	New Well	Domestic	Terry	Tom Farrell	100' North of	Meadow		33.34806	-102.206	1-Sep-05	142	no
128085	New Well	Irrigation	Terry	Ryan Smith	1mi E, 1/4n	Meadow	79345	33.34445	-102.187	9-Jun-05	147	
177228	New Well	Irrigation	Terry	RYAN SMITI	2 1/4 MI EA	MEADOW	79345	33.34611	-102.184	7-Apr-09	144	
359342	New Well	Irrigation	Terry	olane caswell				33.3575	-102.208	28-Mar-14	135	
561353	New Well	Domestic	Terry	Ray Gober	344 US HW	Meadow	79359	33.34919	-102.197	11-Dec-20	145	no
588650	New Well	Domestic	Terry	Will Fewin	Location NI	Brownfield	79316	33.34889	-102.205	4-Nov-21	142	no
632217	New Well	Irrigation	Terry	KIRBY KEES	SECTION	BROWNFIELD		33.34247	-102.196	6-Jan-23	155	no

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
US Topo

MEADOW QUADRANGLE
TEXAS - TERRY COUNTY
7.5-MINUTE SERIES

Produced by the United States Geological Survey

SCALE 1:24 000

MEADOW, TX
2023

Groundwater Technical Report

See attachment Water Well Map

TWDB well information is attached and correlated with well numbers.

No monitoring wells are installed.

The wastewater plant is located North/northeast of Meadow, TX in Terry County. There are numerous water wells drilled in this area due to being in the Ogallala major aquifer and having significant agricultural operations. The site is in the Ogallala Formation which is generally unconfined and is contained in the pore spaces of unconsolidated or partly consolidated sediments outcrop area and the Edwards Trinity (High Plans) minor aquifer.

There are no known karst features at the site.

The Ogallala Formation principally consists of interfingering bodies of fine to coarse sand, gravel, silt, and clay-material eroded from the Rocky Mountains which was carried southeastward and deposited by streams. The earliest sediments, mainly gravel and coarses and, filled the valleys cut in the pre-Ogallala surface. Pebbles and cobbles of quartz, quartzite, and chert are typical of these early sediments. After filling the valleys, deposition continued until the entire area that is now the Texas High Plains was covered by sediments from the shifting streams. The upper part of the formation contains several

hard, caliche-cemented, erosionally resistant beds called the "caprock." A wind-blown cover of fine silt, sand, and soil overlies the caprock. The Ogallala deposits overlie rocks of lower permeability of Triassic and Cretaceous ages. On a broad scale, the erosional surface at the top of the Triassic and

Cretaceous rocks dips gently (about 10 feet per mile (2 m/km]) toward the southeast, similar to the slope of the land surface. In general, however, this pre-Ogallala surface had greater relief than the present land surface. Low hills and wide valleys which contain deep, narrow stream channels are typical features of the Triassic erosional surface. The Cretaceous rocks, being more resistant to erosion, remain as small buried mesas or buttes. Because the Ogallala was deposited on top of this irregular surface, the formation is very thin in some areas and very thick in others. Often this contrast occurs in relatively short distances. The Triassic rocks, principally shale, serve as a nearly impermeable floor for the aquifer, but the buried mesas or buttes of Cretaceous rocks, where these are present, generally can yield water to wells. At these locations the Ogallala and Cretaceous waters are in hydrologic continuity; therefore, the water-yielding Cretaceous rocks are considered to be part of the Ogallala aquifer.

The Canadian River has cut deeply through the Ogallala Formation in the northern part of the Texas High Plains area. The valley effectively separates the formation geographically into two units having little hydraulic interconnection. Erosion has also removed the Ogallala from much of its former extent to the east, and to the west in New Mexico. As a result, the Southern High Plains, although relatively flat, stands in high relief and is hydraulically independent of adjacent areas. For this reason, coupled with the scarcity of local rainfall, water that is being withdrawn from the aquifer cannot be replaced quickly by natural recharge and is in effect being mined.

Vegetation in the county is drought resistant. Sparse grasses; desert shrubs such as ocotillo, lechuguilla, sotol, acacias, tarbrush, and creosote bush; some mesquite; and cactus are the dominant plants outside of the heavily farmed areas.

Three separate subcrops of southeast-dipping Cretaceous strata underlie the southern part of the Ogallala Formation. These isolated remnants represent a larger area that was probably covered by Cretaceous rocks, the original extent of which is not known. The rocks were deposited in an epineritic and littoral environment of stable shelf seas whose subsidence was slow. Th rocks were classified into three groups, only one of which is present in the area: The Antlers Formation of the Trinity Group consists of sandy, permeable strata. Because erosion truncated various formations at different locations, there are places where the top of the permeable Edwards Limestone or the Paluxy Sandstone form the contact with the Ogallala aquifer. In these locations, a continuous permeable sequence may exist below the Ogallala. In other places only a thin, shaly layer separates these permeable Cretaceous formations from the Ogallala. There are wells near the wwtp plant that use both formations.

The average rainfall in the area is in the 16 to 17" per year limiting runoff and limiting recharge to groundwater sources and dependent on areas with scant soil and drainage features to funnel recharge.

The pond system has a certified clay liner system so that any leaching from the ponds will be very minimal to none. From the pond system the treated effluent will be pumped to an irrigation point and irrigated over 119 acres at a rate of 2.0 acre ft/acre/year. The irrigated field primarily consists of Portales loam, 0 to 1 percent and 1 to three percent and Amarillo fine sandy loam, 0 to 1 percent slopes. Higher recharge generally occurs where soils are thin and soil hydraulic conductivity and bedrock hydraulic conductivity are highest.

There are 5 wells within a half mile of the site. While Terry County and the Ogallala is known to have historically numerous wells, pumping has been significant with an almost continuous decline in the water table.

With the pond system having a certified clay liner, and the limited rainfall there will be very minimal to no changes in groundwater quality due to the wastewater plant.

City of Meadow
WWTP Irrigation Application
Terry County, Texas
December 2024

ATTACHMENT #3

Flow Diagram

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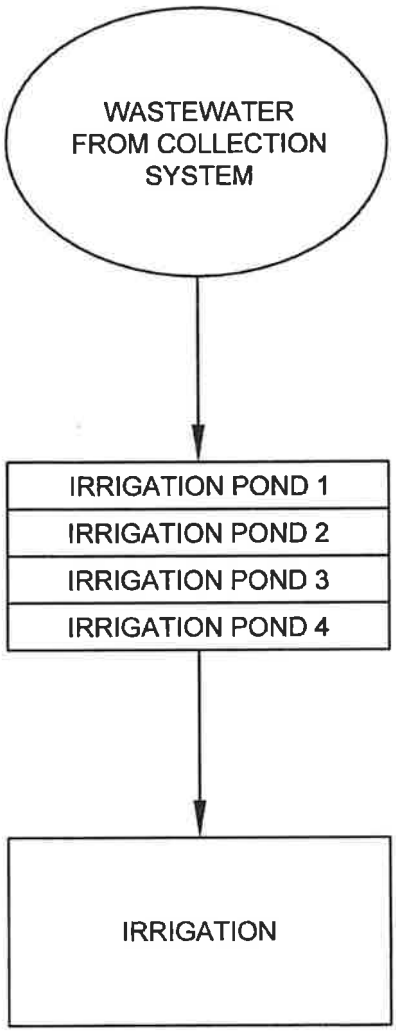
WASTEWATER
FROM COLLECTION
SYSTEM
IRRIGATION POND 1
IRRIGATION POND 2
IRRIGATION POND 3
IRRIGATION POND 4
IRRIGATION

City of Meadow
WWTP Irrigation Application
Terry County, Texas
December 2024

ATTACHMENT #4

Site Drawings

Prepared By:

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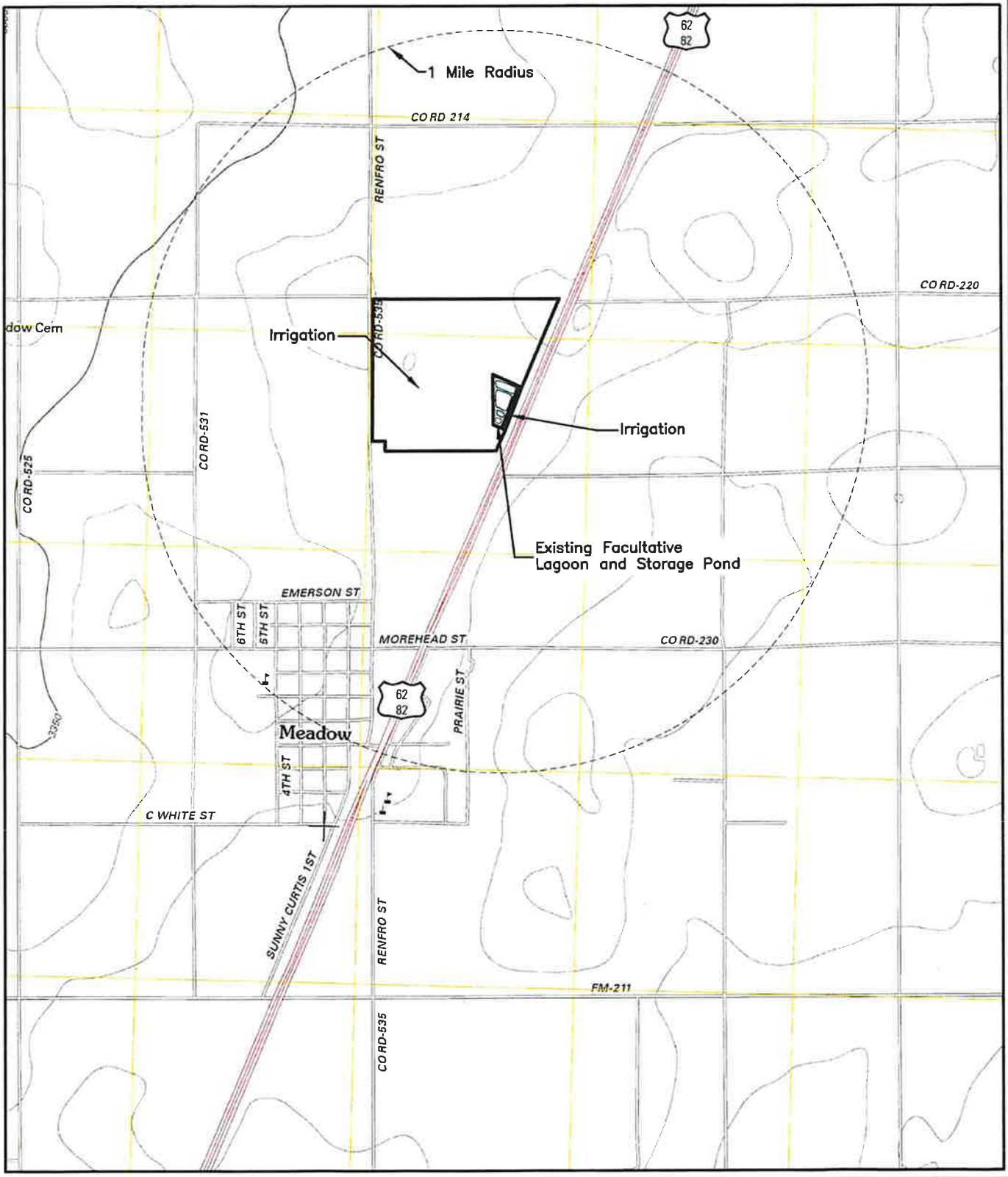
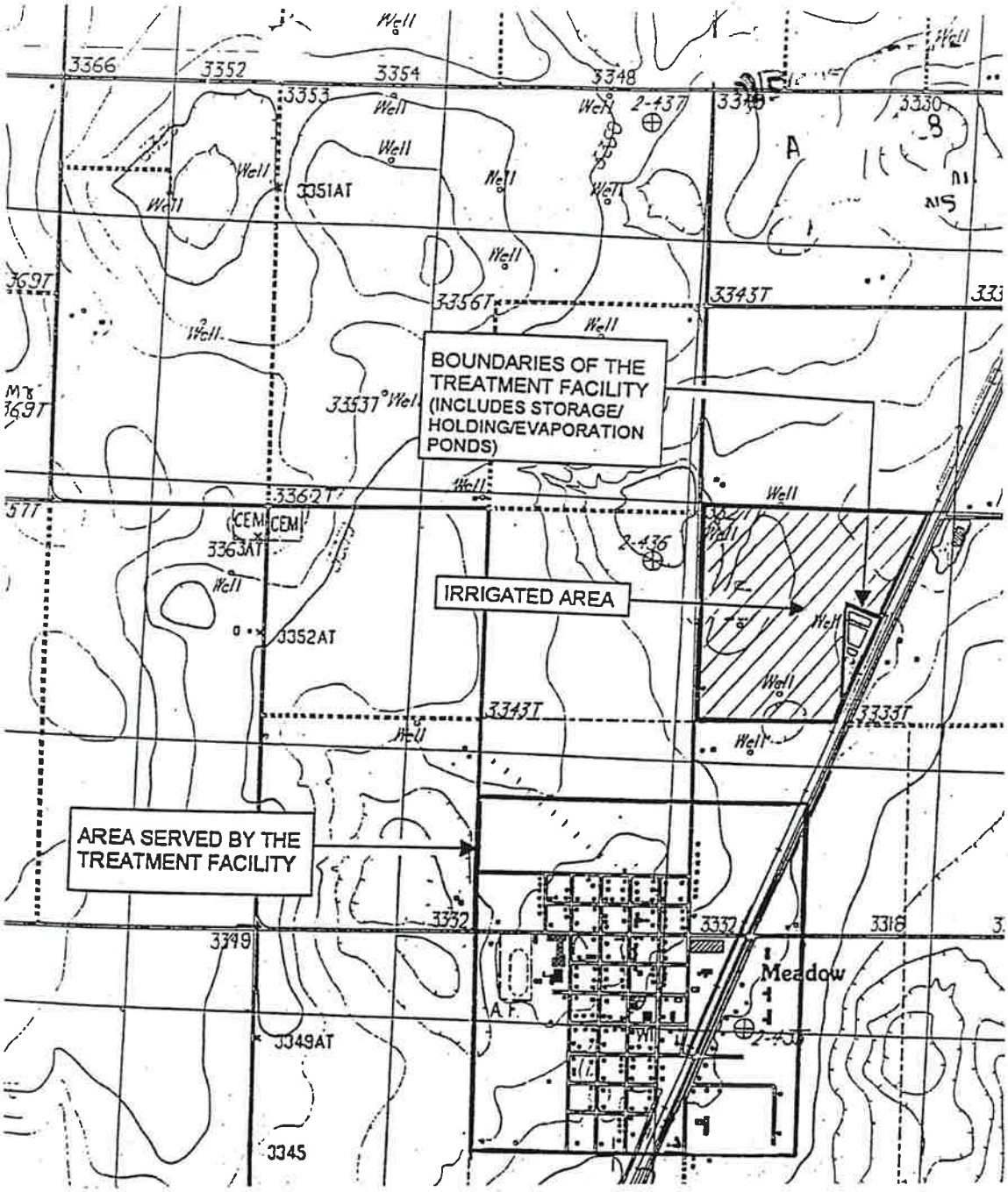


CITY OF MEADOW
WWTP PERMIT APPLICATION

SCALE: 1" = 2000'	REVISION DATE:	DRAWING NUMBER:

SITE MAP

ATTACHMENT A
SITE PLAN



City of Meadow
WWTP Irrigation Site Application
Terry County, Texas
December 2024

ATTACHMENT #5

Pollutant Analysis

Prepared By:

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Project #: 17390

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1508 Santa Fe, Suite 203
Weatherford, TX 76086

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Bobby Young
City of Meadow
906 1st Street
Meadow, Texas 79345

Generated 5/19/2024 11:09:31 PM

JOB DESCRIPTION

repermit

JOB NUMBER

820-13222-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
5/19/2024 11:09:31 PM

Authorized for release by
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Definitions/Glossary

Client: City of Meadow
Job ID: 820-13222-1
Project/Site: repermit

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
820-13222-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 5/8/2024 4:26 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 13.7°C.

HPLC/IC
Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-159480 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pond #3 (820-13222-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 4500_CL_G: The following sample was diluted due to the nature of the sample matrix: Pond #3 (820-13222-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Biology
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: City of Meadow
Project/Site: repermit

Job ID: 820-13222-1

Client Sample ID: Pond #3

Date Collected: 05/08/24 15:55
Date Received: 05/08/24 16:26

Lab Sample ID: 820-13222-1

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.0728**	**J**	0.100	0.0391	mg/L			05/10/24 01:31	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			05/10/24 01:31	1
Sulfate	**274**		0.500	0.200	mg/L			05/10/24 01:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**522**		5.00	2.50	mg/L			05/10/24 01:41	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.160**		0.100	0.0508	mg/L			05/15/24 21:10	1
Nitrogen, Kjeldahl (EPA 351.2)	**21.5**		5.00	2.23	mg/L		05/10/24 23:11	05/13/24 22:09	25
Phosphorus Total (EPA 365.1)	**2.28**		0.400	0.287	mg/L			05/16/24 20:22	20
Phosphorus Pentoxide (EPA 365.1)	**5.22**		0.917	0.657	mg/L			05/16/24 20:22	20
pH (SW846 9040C)	**9.32**	**HF**			SU			05/15/24 22:12	1
Temperature (SW846 9040C)	**18.5**	**HF**			Degrees C			05/15/24 22:12	1
Corrosivity (SW846 9040C)	**9.32**	**HF**			SU			05/15/24 22:12	1
Specific Conductance (SM 2510B)	**2310**		10.0	10.0	umho/cm @ 25C			05/15/24 22:12	1
Total Dissolved Solids (SM 2540C)	**1830**		20.0	20.0	mg/L			05/13/24 14:53	1
Total Suspended Solids (SM 2540D)	**139**		40.0	40.0	mg/L			05/14/24 17:52	1
Chlorine, Total Residual (SM 4500 Cl G)	<1.00	U HF	1.00	1.00	mg/L			05/13/24 15:13	20
Carbonaceous Biochemical Oxygen Demand (SM5210B CBOD)	**67.0**		30.0	30.0	mg/L		05/09/24 20:07	05/09/24 20:40	1

Method: SM 9223B - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	**>2400**		1.0	1.0	MPN/100mL			05/08/24 16:55	1
Escherichia coli	**490**		1.0	1.0	MPN/100mL			05/08/24 16:55	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-159480/3
Matrix: Water
Analysis Batch: 159480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			05/09/24 12:30	1
Sulfate	<0.200	U	0.500	0.200	mg/L			05/09/24 12:30	1

Lab Sample ID: MB 860-159480/62
Matrix: Water
Analysis Batch: 159480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			05/09/24 23:04	1
Sulfate	<0.200	U	0.500	0.200	mg/L			05/09/24 23:04	1

Lab Sample ID: LCS 860-159480/63
Matrix: Water
Analysis Batch: 159480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.484		mg/L		95	90 - 110
Sulfate	10.0	9.162		mg/L		92	90 - 110

Lab Sample ID: LCSD 860-159480/64
Matrix: Water
Analysis Batch: 159480

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.424		mg/L		94	90 - 110	1	20
Sulfate	10.0	9.207		mg/L		92	90 - 110	0	20

Lab Sample ID: LLCS 860-159480/7
Matrix: Water
Analysis Batch: 159480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5919		mg/L		118	50 - 150
Sulfate	0.500	0.4446	J	mg/L		89	50 - 150

Lab Sample ID: MB 860-159481/3
Matrix: Water
Analysis Batch: 159481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			05/09/24 12:30	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			05/09/24 12:30	1

Lab Sample ID: MB 860-159481/62
Matrix: Water
Analysis Batch: 159481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			05/09/24 23:04	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			05/09/24 23:04	1

Client: City of Meadow
Project/Site: repermit

Job ID: 820-13222-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 860-159481/63
Matrix: Water
Analysis Batch: 159481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.18		mg/L		102	80 - 120
Nitrite as N	10.0	10.70		mg/L		107	80 - 120

Lab Sample ID: LCSD 860-159481/64
Matrix: Water
Analysis Batch: 159481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.14		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	10.67		mg/L		107	80 - 120	0	20

Lab Sample ID: LLCS 860-159481/6
Matrix: Water
Analysis Batch: 159481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1189		mg/L		119	50 - 150
Nitrite as N	0.100	0.07742	J	mg/L		77	50 - 150

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 860-160570/16
Matrix: Water
Analysis Batch: 160570

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.0508	U	0.100	0.0508	mg/L			05/15/24 19:36	1

Lab Sample ID: MB 860-160570/56
Matrix: Water
Analysis Batch: 160570

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.06200	J	0.100	0.0508	mg/L			05/15/24 21:50	1

Lab Sample ID: LCS 860-160570/18
Matrix: Water
Analysis Batch: 160570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.9970		mg/L		100	90 - 110

Lab Sample ID: LCS 860-160570/57
Matrix: Water
Analysis Batch: 160570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.004		mg/L		100	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCSD 860-160570/19
Matrix: Water
Analysis Batch: 160570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia			1.00	1.006		mg/L		101	90 - 110	1	20

Lab Sample ID: LCSD 860-160570/58
Matrix: Water
Analysis Batch: 160570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia			1.00	0.9710		mg/L		97	90 - 110	3	20

Lab Sample ID: LLCS 860-160570/17
Matrix: Water
Analysis Batch: 160570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			0.100	0.1000		mg/L		100	50 - 150		

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 860-159719/32-A
Matrix: Water
Analysis Batch: 160081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	<0.0890	U	0.200	0.0890	mg/L		05/11/24 00:54	05/13/24 20:11	1

Lab Sample ID: MB 860-159719/4-A
Matrix: Water
Analysis Batch: 160081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	<0.0890	U	0.200	0.0890	mg/L		05/10/24 23:11	05/13/24 19:27	1

Lab Sample ID: LCS 860-159719/33-A
Matrix: Water
Analysis Batch: 160081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159719

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrogen, Kjeldahl			2.00	1.989		mg/L		99	90 - 110		

Lab Sample ID: LCSD 860-159719/34-A
Matrix: Water
Analysis Batch: 160081

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 159719

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl			2.00	1.958		mg/L		98	90 - 110	2	20

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LLCS 860-159719/5-A
Matrix: Water
Analysis Batch: 160081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159719

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	0.200	0.1430	J	mg/L		71	50 - 150

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 860-160889/98
Matrix: Water
Analysis Batch: 160889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus Total	<0.0143	U	0.0200	0.0143	mg/L			05/16/24 18:46	1
Phosphorus Pentoxide	<0.0329	U	0.0458	0.0329	mg/L			05/16/24 18:46	1

Lab Sample ID: LCS 860-160889/99
Matrix: Water
Analysis Batch: 160889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus Total	0.250	0.2250		mg/L		90	90 - 110
Total Phosphorus as PO4	0.766	0.6899		mg/L		90	90 - 110

Lab Sample ID: LCSD 860-160889/100
Matrix: Water
Analysis Batch: 160889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus Total	0.250	0.2280		mg/L		91	90 - 110	1	20
Total Phosphorus as PO4	0.766	0.6990		mg/L		91	90 - 110	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-159924/1
Matrix: Water
Analysis Batch: 159924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			05/13/24 14:53	1

Lab Sample ID: LCS 860-159924/2
Matrix: Water
Analysis Batch: 159924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	980.0		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-159924/3
Matrix: Water
Analysis Batch: 159924

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	974.0		mg/L		97	80 - 120	1	10

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LLCS 860-159924/4
Matrix: Water
Analysis Batch: 159924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	7.000		mg/L		140	50 - 150		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 860-160226/1
Matrix: Water
Analysis Batch: 160226

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.00	U	4.00	4.00	mg/L			05/14/24 17:51	1

Lab Sample ID: LCS 860-160226/2
Matrix: Water
Analysis Batch: 160226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	111.0		mg/L		111	80 - 120		

Lab Sample ID: LCSD 860-160226/3
Matrix: Water
Analysis Batch: 160226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids			100	100.0		mg/L		100	80 - 120	10	10

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 860-159931/3
Matrix: Water
Analysis Batch: 159931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	<0.0500	U	0.0500	0.0500	mg/L			05/13/24 15:11	1

Lab Sample ID: LCS 860-159931/4
Matrix: Water
Analysis Batch: 159931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorine, Total Residual			0.250	0.2380		mg/L		95	85 - 115		

Lab Sample ID: LCSD 860-159931/5
Matrix: Water
Analysis Batch: 159931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorine, Total Residual			0.250	0.2444		mg/L		98	85 - 115	3	20

Client: City of Meadow
Project/Site: repermit

Job ID: 820-13222-1

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: SCB 860-160337/2
Matrix: Water
Analysis Batch: 160337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	0.7050		0.0000020 0	0.0000020 0	mg/L			05/09/24 19:56	1

Lab Sample ID: USB 860-160337/1
Matrix: Water
Analysis Batch: 160337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	0.02000		0.0000020 0	0.0000020 0	mg/L			05/09/24 20:07	1

Lab Sample ID: LCS 860-160337/3
Matrix: Water
Analysis Batch: 160337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbonaceous Biochemical Oxygen Demand			198	172.3		mg/L		87	85 - 115		

HPLC/IC

Analysis Batch: 159480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	300.0	
820-13222-1 - DL	Pond #3	Total/NA	Water	300.0	
MB 860-159480/3	Method Blank	Total/NA	Water	300.0	
MB 860-159480/62	Method Blank	Total/NA	Water	300.0	
LCS 860-159480/63	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-159480/64	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-159480/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 159481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	300.0	
MB 860-159481/3	Method Blank	Total/NA	Water	300.0	
MB 860-159481/62	Method Blank	Total/NA	Water	300.0	
LCS 860-159481/63	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-159481/64	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-159481/6	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Prep Batch: 159489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	BOD Prep	

Prep Batch: 159719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	351.2	
MB 860-159719/32-A	Method Blank	Total/NA	Water	351.2	
MB 860-159719/4-A	Method Blank	Total/NA	Water	351.2	
LCS 860-159719/33-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 860-159719/34-A	Lab Control Sample Dup	Total/NA	Water	351.2	
LLCS 860-159719/5-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 159924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	SM 2540C	
MB 860-159924/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-159924/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-159924/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-159924/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 159931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	SM 4500 Cl G	
MB 860-159931/3	Method Blank	Total/NA	Water	SM 4500 Cl G	
LCS 860-159931/4	Lab Control Sample	Total/NA	Water	SM 4500 Cl G	
LCSD 860-159931/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl G	

Analysis Batch: 160081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	351.2	159719
MB 860-159719/32-A	Method Blank	Total/NA	Water	351.2	159719

General Chemistry (Continued)

Analysis Batch: 160081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-159719/4-A	Method Blank	Total/NA	Water	351.2	159719
LCS 860-159719/33-A	Lab Control Sample	Total/NA	Water	351.2	159719
LCSD 860-159719/34-A	Lab Control Sample Dup	Total/NA	Water	351.2	159719
LLCS 860-159719/5-A	Lab Control Sample	Total/NA	Water	351.2	159719

Analysis Batch: 160226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	SM 2540D	
MB 860-160226/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 860-160226/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 860-160226/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 160337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	SM5210B CBOD	159489
SCB 860-160337/2	Method Blank	Total/NA	Water	SM5210B CBOD	
USB 860-160337/1	Method Blank	Total/NA	Water	SM5210B CBOD	
LCS 860-160337/3	Lab Control Sample	Total/NA	Water	SM5210B CBOD	

Analysis Batch: 160570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	350.1	
MB 860-160570/16	Method Blank	Total/NA	Water	350.1	
MB 860-160570/56	Method Blank	Total/NA	Water	350.1	
LCS 860-160570/18	Lab Control Sample	Total/NA	Water	350.1	
LCS 860-160570/57	Lab Control Sample	Total/NA	Water	350.1	
LCSD 860-160570/19	Lab Control Sample Dup	Total/NA	Water	350.1	
LCSD 860-160570/58	Lab Control Sample Dup	Total/NA	Water	350.1	
LLCS 860-160570/17	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 160748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	9040C	

Analysis Batch: 160759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	SM 2510B	
LCS 860-160759/3	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 860-160759/4	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
LLCS 860-160759/6	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 160889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	365.1	
MB 860-160889/98	Method Blank	Total/NA	Water	365.1	
LCS 860-160889/99	Lab Control Sample	Total/NA	Water	365.1	
LCSD 860-160889/100	Lab Control Sample Dup	Total/NA	Water	365.1	

QC Association Summary

Client: City of Meadow
Project/Site: repermit

Job ID: 820-13222-1

Biology

Analysis Batch: 2620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-13222-1	Pond #3	Total/NA	Water	9223B	

Lab Chronicle

Client: City of Meadow
Project/Site: repermit

Job ID: 820-13222-1

Client Sample ID: Pond #3

Date Collected: 05/08/24 15:55
Date Received: 05/08/24 16:26

Lab Sample ID: 820-13222-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			159480	05/10/24 01:31	A1S	EET HOU
Total/NA	Analysis	300.0		1			159481	05/10/24 01:31	A1S	EET HOU
Total/NA	Analysis	300.0	DL	10			159480	05/10/24 01:41	A1S	EET HOU
Total/NA	Analysis	350.1		1	10 mL	10 mL	160570	05/15/24 21:10	AA	EET HOU
Total/NA	Prep	351.2			20 mL	20 mL	159719	05/10/24 23:11	MLEI	EET HOU
Total/NA	Analysis	351.2		25			160081	05/13/24 22:09	LD	EET HOU
Total/NA	Analysis	365.1		20	10 mL	10 mL	160889	05/16/24 20:22	HN	EET HOU
Total/NA	Analysis	9040C		1			160748	05/15/24 22:12	RY	EET HOU
Total/NA	Analysis	SM 2510B		1			160759	05/15/24 22:12	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	159924	05/13/24 14:53	TR	EET HOU
Total/NA	Analysis	SM 2540D		1	100 mL	1000 mL	160226	05/14/24 17:52	FN	EET HOU
Total/NA	Analysis	SM 4500 Cl G		20	10 mL	10 mL	159931	05/13/24 15:13	SCI	EET HOU
Total/NA	Prep	BOD Prep					159489	05/09/24 20:07	ALL	EET HOU
Total/NA	Analysis	SM5210B CBOD		1	20 mL	300 mL	160337	05/09/24 20:40	ALL	EET HOU
Total/NA	Analysis	9223B		1	100 mL	100 mL	2620	05/08/24 16:55	CT	EET LUB

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET LUB = Eurofins Lubbock, 6701 Aberdeen Ave., Suite 8, Lubbock, TX 79424, TEL (806)794-1296

Accreditation/Certification Summary

Client: City of Meadow
Project/Site: repermit

Job ID: 820-13222-1

Laboratory: Eurofins Lubbock

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704219	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9223B		Water	Coliform, Total

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
365.1		Water	Phosphorus Pentoxide
9040C		Water	Corrosivity
9040C		Water	Temperature
SM 2540D		Water	Total Suspended Solids

Method Summary

Client: City of Meadow
Project/Site: repermit

Job ID: 820-13222-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET HOU
350.1	Nitrogen, Ammonia	EPA	EET HOU
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
365.1	Phosphorus, Total	EPA	EET HOU
9040C	pH	SW846	EET HOU
SM 2510B	Conductivity, Specific Conductance	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
SM 2540D	Solids, Total Suspended (TSS)	SM	EET HOU
SM 4500 Cl G	Chlorine, Residual	SM	EET HOU
SM5210B CBOD	Carbonaceous BOD, 5 Day	SM	EET HOU
9223B	Coliforms, Total, and E.Coll (Colilert - Quanti Tray)	SM	EET LUB
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
BOD Prep	Preparation, BOD	SM	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET LUB = Eurofins Lubbock, 6701 Aberdeen Ave., Suite 8, Lubbock, TX 79424, TEL (806)794-1296

Sample Summary

Client: City of Meadow
Project/Site: repermit

Job ID: 820-13222-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-13222-1	Pond #3	Water	05/08/24 15:55	05/08/24 16:26

Loc: 820
13222

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

820-13222 Chain of Custody

www.xenco.com Page _____ of _____

Project Manager:		Bill to: (if different)	
Company Name:	City of Meadow	Company Name:	
Address:	901 S 1st	Address:	
City, State ZIP:	Meadow, Tx, 79345	City, State ZIP:	
Phone:	806-548-1703	Email:	Publicworks@meadow.texas.gov

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	re permit	Turn Around	
Project Number:		☐ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Bobby Young	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.4
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	14.1
Total Containers:	6	Corrected Temperature:	13.7

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 1 CBOD5 mg/l	2 TSS	3 Ammonia Nitrogen	4 Nitrate Nitrogen	5 Total KJN	6 Sulfate	7 Chloride	8 Total Phosphorus	9 PH	10 Chlorine residual	11 Ecoli	12 Dissolved Solids	13 Conductivity	Sample Comments
X Pond #3		X 5/16/24	X 3:55			6		X	X	X	X	X	X	X	X	X	X	X	X	X	

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 X			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Lubbock
6701 Aberdeen Ave. Suite 8
Lubbock, TX 79424
Phone: 806-794-1296

Chain of Custody Record

eurofins | Environment Testing

5/19/2024

Client Information (Sub Contract Lab)	Sampler	Lab PM: Aparicio, Niria	Carrier Tracking No(s):	COC No: 820-9327 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Niria.Aparicio@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 820-13222-1
Address: 4145 Greenbriar Dr	Due Date Requested: 5/15/2024			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: repermit	Project #: 82000666			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM5210B_CBODCal/BOD_Prep CBOD	2510B/ Specific Conductance	2540D/ TSS	2540C_Calc/ TDS	350.1/ Ammonia	351.2/351.2_Prep Total Kjeldahl Nitrogen (TKN)	300_ORGFM_28D/ C,SO4	365.1_NP/ Phosphorus, Total	9040C/ pH	4500_CL_G/ Chlorine, Residual	300_ORGFM5/ Nitrate and Nitrite as N			Total Number of containers	Special Instructions/Note
			Preservation Code:																		Other
Pond #3 (820-13222-1)	5/8/24	15:55 Central		Water			X	X	X	X	X	X	X	X	X	X	X				

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by: Holly Taylor	Date/Time: 5/8/24 1700	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5.9.24 1049	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 0.7° IR THERM368

Ver 06/08/2021

Login Sample Receipt Checklist

Client: City of Meadow

Job Number: 820-13222-1

Login Number: 13222

List Number: 1

Creator: Taylor, Holly

List Source: Eurofins Lubbock

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: City of Meadow

Job Number: 820-13222-1

Login Number: 13222
List Number: 2
Creator: Grandits, Corey

List Source: Eurofins Houston
List Creation: 05/09/24 04:02 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

City of Meadow
WWTP Irrigation Application
Terry County, Texas
December 2024

ATTACHMENT #6

General Highway Map

Prepared By:

JACOB MARTIN

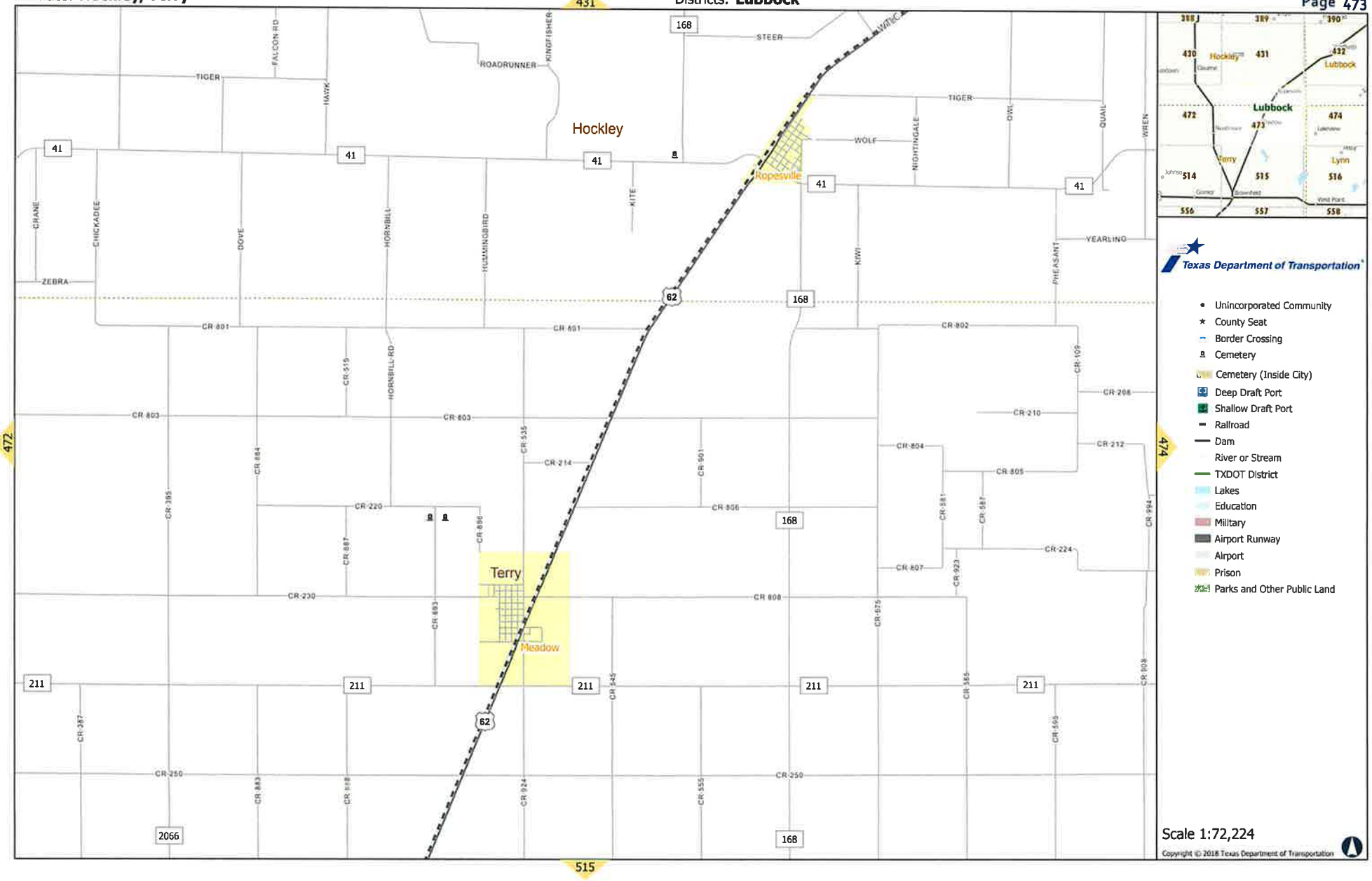
Firm #2448
Project #: 17390

325.695.1070
817.594.9880

info@jacobmartin.com
www.jacobmartin.com

3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086



Texas Department of Transportation

- Unincorporated Community
- County Seat
- Border Crossing
- Cemetery
- Cemetery (Inside City)
- Deep Draft Port
- Shallow Draft Port
- Railroad
- Dam
- River or Stream
- TXDOT District
- Lakes
- Education
- Military
- Airport Runway
- Airport
- Prison
- Parks and Other Public Land

Scale 1:72,224

City of Meadow
WWTP Irrigation Application
Terry County, Texas
December 2024

ATTACHMENT #7

USDA NRCS Soil Map, Annual Cropping Plan

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

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Weatherford, TX 76086

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Terry County, Texas

March 14, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

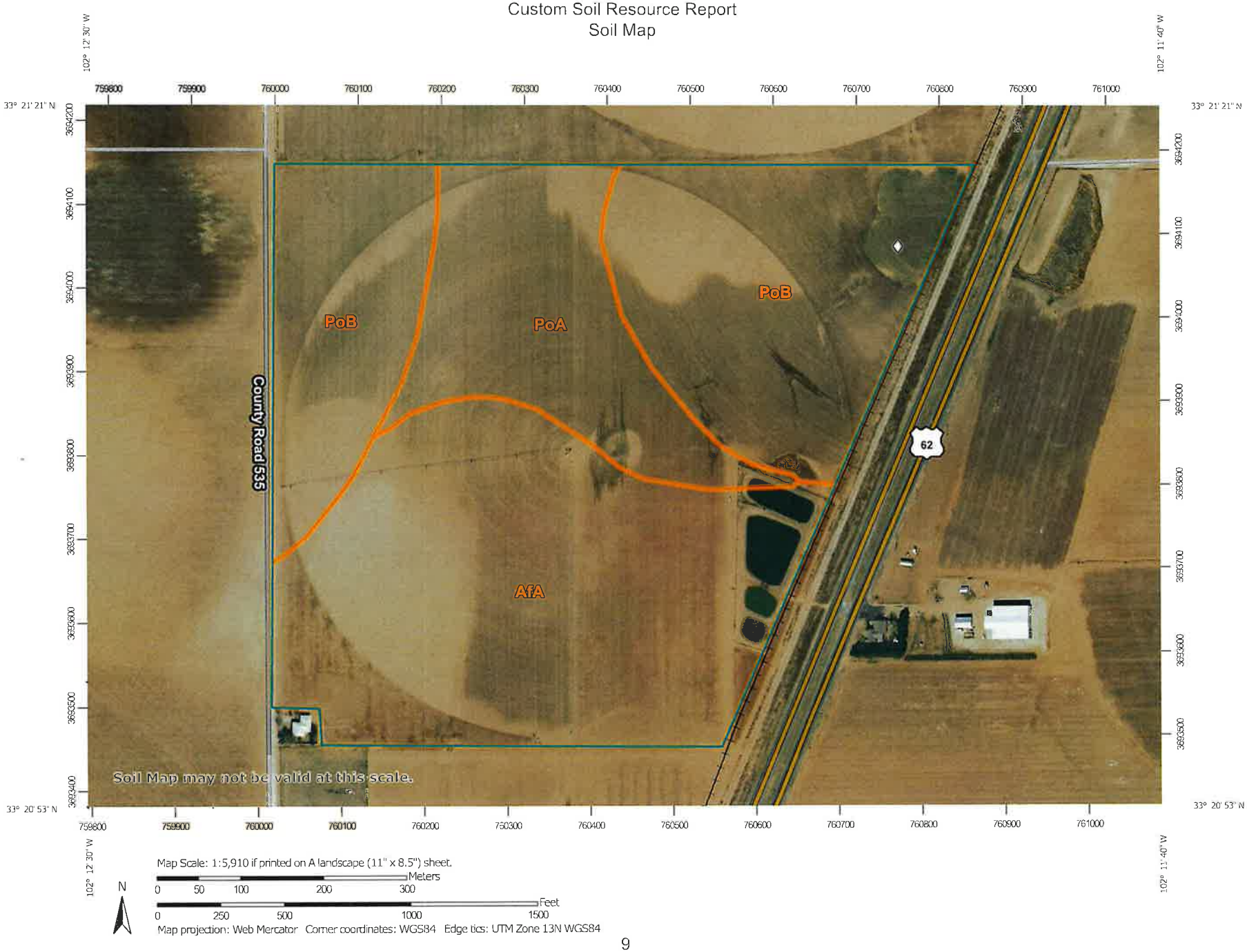
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:5,910 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 250 500 1000 1500

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

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

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Terry County, Texas
Survey Area Data: Version 21, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 16, 2022—Jan 29, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AfA	Amarillo fine sandy loam, 0 to 1 percent slopes	51.5	43.4%
PoA	Portales loam, 0 to 1 percent slopes	21.4	18.0%
PoB	Portales loam, 1 to 3 percent slopes	45.9	38.6%
Totals for Area of Interest		**118.8**	**100.0%**

Map Unit Descriptions

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, along with the maps, can be used to determine the composition and properties of a unit.

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.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Terry County, Texas

AfA—Amarillo fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: f5r6
Elevation: 2,600 to 5,100 feet
Mean annual precipitation: 16 to 21 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 185 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Amarillo and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Amarillo

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy eolian deposits

Typical profile

Ap - 0 to 10 inches: fine sandy loam
Bt - 10 to 41 inches: sandy clay loam
Btkk - 41 to 56 inches: sandy clay loam
Btk - 56 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 65 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R077CY036TX - Sandy Loam 16-21" PZ
Hydric soil rating: No

Minor Components

Posey
Percent of map unit: 4 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Arvana
Percent of map unit: 4 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077CY036TX - Sandy Loam 16-21" PZ
Hydric soil rating: No

Sharvana
Percent of map unit: 2 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

PoA—Portales loam, 0 to 1 percent slopes

Map Unit Setting
National map unit symbol: f5t2
Elevation: 2,600 to 5,300 feet
Mean annual precipitation: 16 to 21 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 185 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition
Portales and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Portales

Setting
Landform: Playa steps, interdunes, plains
Down-slope shape: Convex, linear, concave
Across-slope shape: Linear
Parent material: Calcareous loamy eolian deposits and/or lacustrine deposits

Typical profile

Ap - 0 to 15 inches: loam
Bk1 - 15 to 35 inches: clay loam
Bk2 - 35 to 43 inches: loam
Bkk - 43 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Minor Components

Midessa

Percent of map unit: 10 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Posey

Percent of map unit: 3 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Acuff

Percent of map unit: 2 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077CY022TX - Deep Hardland 16-21" PZ
Hydric soil rating: No

PoB—Portales loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: f5t3
Elevation: 2,600 to 5,300 feet
Mean annual precipitation: 16 to 21 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 185 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Portales and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Portales

Setting

Landform: Playa slopes, interdunes, plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous loamy eolian deposits and/or lacustrine deposits

Typical profile

Ap - 0 to 14 inches: loam
Bk1 - 14 to 35 inches: clay loam
Bk2 - 35 to 43 inches: loam
Bkk - 43 to 80 inches: clay loam

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Minor Components

Midessa

Percent of map unit: 10 percent
Landform: Playa slopes, plains
Down-slope shape: Concave, convex
Across-slope shape: Linear
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Posey

Percent of map unit: 3 percent
Landform: Playa slopes, plains
Down-slope shape: Concave, convex
Across-slope shape: Linear
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Acuff

Percent of map unit: 2 percent
Landform: Playa slopes, plains
Down-slope shape: Concave, convex
Across-slope shape: Linear
Ecological site: R077CY022TX - Deep Hardland 16-21" PZ
Hydric soil rating: No

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City of Meadow
WWTP Irrigation Application
Terry County, Texas
December 2024

ATTACHMENT #8

FEMA Flood Plain

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880
info@jacobmartin.com
www.jacobmartin.com
3465 Curry Lane
Abilene, TX 76906
1508 Santa Fe, Suite 203
Weatherford, TX 76086

PIN
Approximate location based on user input and does not represent an authoritative property location

MAP PANELS
Selected FloodMap Boundary
Digital Data Available
No Digital Data Available
Unmapped

OTHER AREAS
NO SCREEN Area of Minimal Flood Hazard Zone X
Effective LOMRs
Area of Undetermined Flood Hazard Zone D
Otherwise Protected Area
Coastal Barrier Resource System Area

SPECIAL FLOOD HAZARD AREAS
Without Base Flood Elevation (BFE) Zone A, V, A99
With BFE or Depth
Regulatory Floodway Zone AE, AO, AH, VE, AR

OTHER AREAS OF FLOOD HAZARD
0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levee. See Notes. Zone X
Area with Flood Risk due to Levee Zone D

OTHER FEATURES
20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
Coastal Transect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature

GENERAL STRUCTURES
Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

City of Meadow
WWTP Irrigation Site Application
Terry County, Texas
December 2024

ATTACHMENT #9

Lease Agreement

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

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817.594.9880

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3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086

City of Meadow

906 1st Street • Meadow, TX 79345 • (806) 539-2377 • cityofmeadow@yahoo.com

Subject: Waste Water Services Contract

To Whom It May Concern,

The City of Meadow is currently in the process of negotiating with the landowner to renew the Waste Water Services Contract. The next City Council meeting is being held on June 20th, 2024. This is a topic on the agenda to be discussed and acted on by the mayor and council members. If you have any questions, please give us a call.

Thank you,

Desiree Ruiz
City Clerk
906 1st Street
Meadow, Texas 79345
(806) 539-2377

RECEIVED
MAY 24 '71
TEXAS WATER QUALITY BOARD

WASTE CONTROL ORDER
PERMIT NO. 10346

PAGE NO. 1. This amendment supersedes and replaces Page 1 (issued July 9, 1963) of Waste Control Order No. 10346.

TEXAS WATER QUALITY BOARD

1108 LAVACA STREET
AUSTIN, TEXAS 78701

PERMIT to dispose of wastes under provisions of Article 7621d-1, Vernon's Texas Civil Statutes

I. Name of Permittee

1. Name — City of Meadow
2. Address — P.O. Box 154
3. City — Meadow, Texas 79345

II. Type of Permit: Regular _____ Amended XXX

III. Nature of Business Producing Waste

Municipal Sewerage System

IV. General Description and Location of Waste Disposal System

Description: Four stabilization ponds operated at 6' depth. No. 1 pond (0.36 acres) and No. 2 pond (0.45 acres) operate in parallel. No. 3 pond (1.07 acres) and No. 4 pond (0.91 acres) designed to operate in series. Irrigation done from either of two final ponds.

Location: One-half mile north of city limits of Meadow, Texas on the west side of the Santa Fe Railroad and U.S. Highway 62.

V. Conditions of the Permit

1. Character, volume and disposal area(s) or point(s) of discharge authorized under this Permit. The conditions on the reverse side are a part of this Permit and apply for all purposes.

Character: Treated domestic sewage effluent

Volume: No discharge. All effluent goes to irrigation.
Not to exceed an average of 50,000 gallons per day;
Not to exceed a maximum of 65,000 gallons per day.

Point of Discharge: No discharge to be made. All effluent is pumped to adjacent farmland by land owner under contract and there is no known drainage course within three miles of the plant site in Terry County, Texas in the Colorado River Basin.

Special Provisions
SEE ATTACHMENT

This permit becomes effective April 30, 1971 and is valid until amended or revoked by the Board.

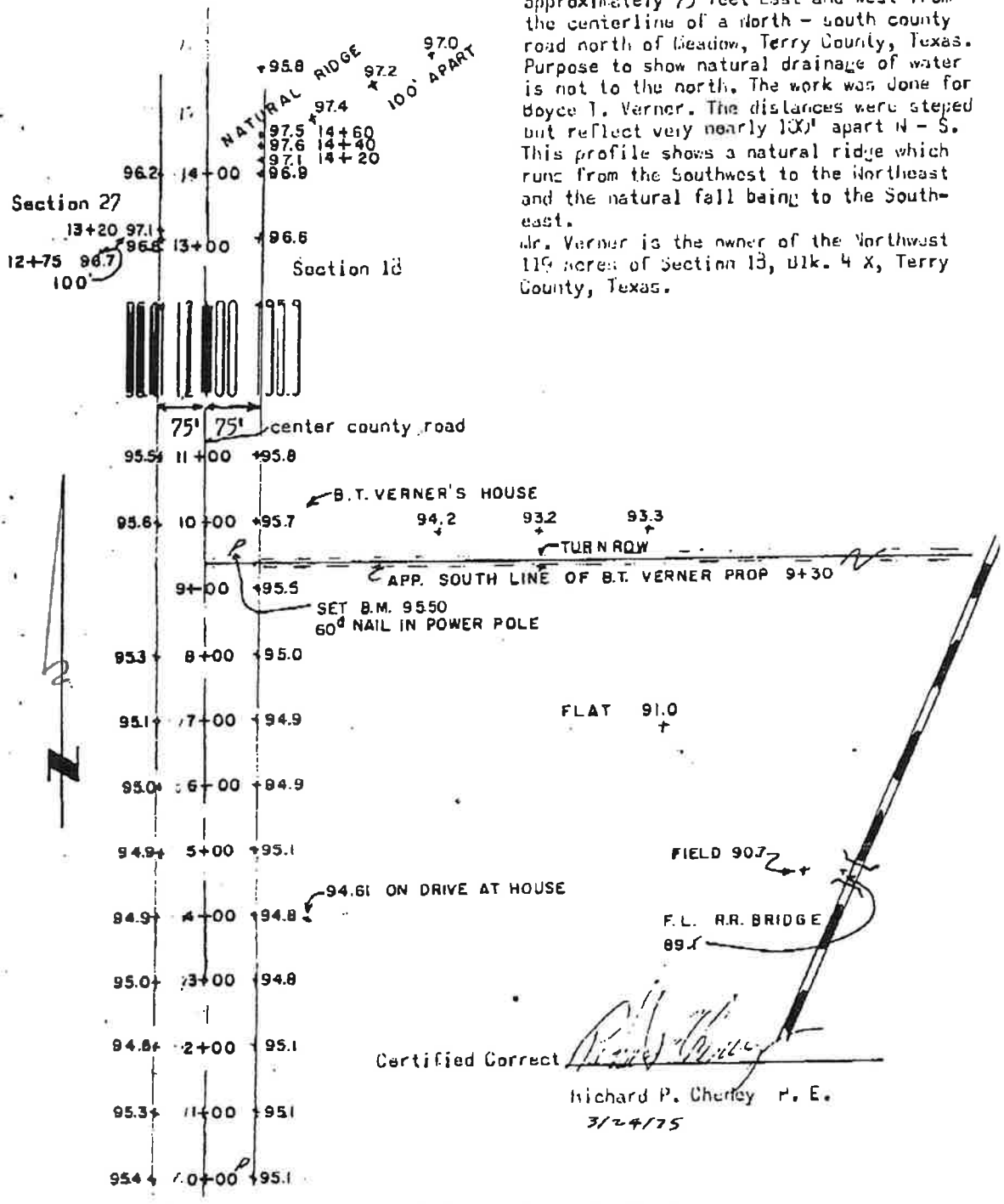
SUED this 30th day of April 19 71.

Executive Director

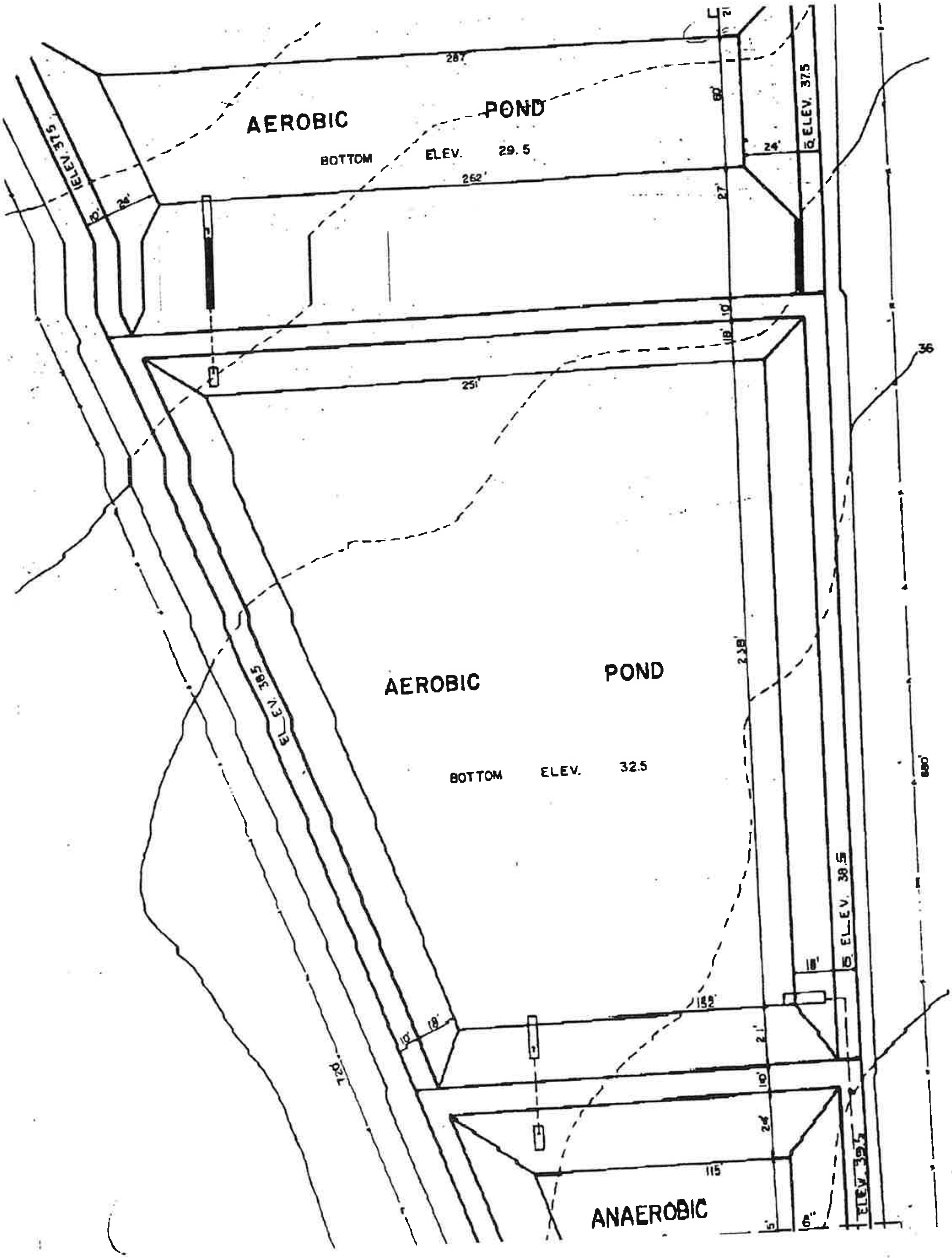
For the Board

Plat showing a profile of elevations taken approximately 75 feet East and west from the centerline of a North – South county road north of Meadow, Terry County, Texas. Purpose to show natural drainage of water is not to the north. The work was done for Boyce T. Verner. The distances were steped but reflect very nearly 100' apart N – S. This profile shows a natural ridge which runs from the Southwest to the Northeast and the natural fall being to the Southeast.

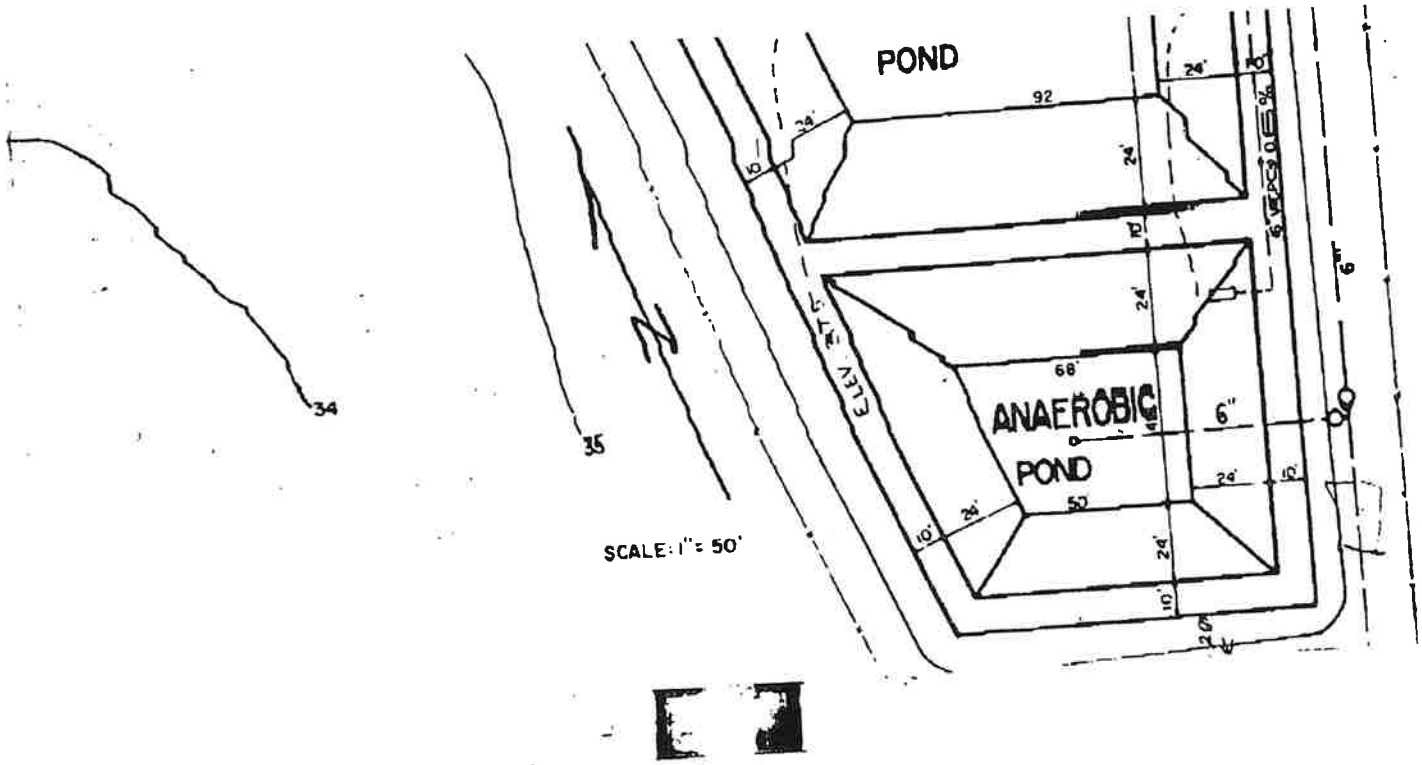
Mr. Verner is the owner of the Northwest 119 acres of Section 13, Blk. 4 X, Terry County, Texas.

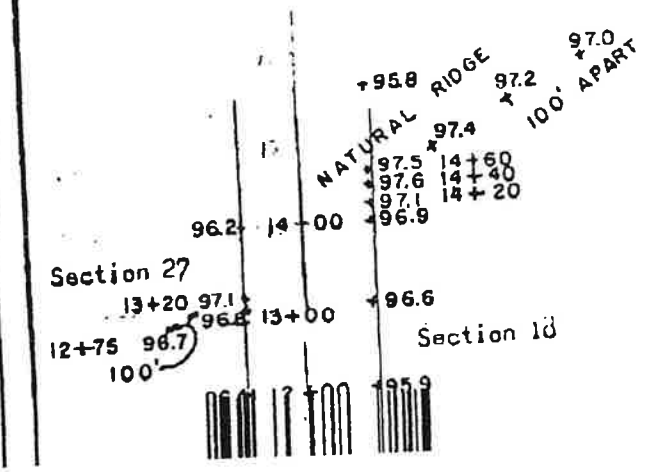


Richard P. Cheney and Associates 1633 Main Lubbock, Texas



AEROBIC POND
BOTTOM ELEV. 29.5
287'
262'
60'
27'
24'
10' ELEV. 37.5
10' 24'
ELEV. 37.5
10'
118'
251'
AEROBIC POND
BOTTOM ELEV. 32.5
238'
ELEV. 38.5
10' ELEV. 38.5
18'
10'
152'
10' 18'
21'
36
680'
720'
24'
115'
ANAEROBIC
5'
6"
ELEV. 39.5





Plat showing a profile of elevations taken approximately 75 feet East and west from the centerline of a North - south county road north of Meadow, Terry County, Texas. Purpose to show natural drainage of water is not to the north. The work was done for Boyce T. Verner. The distances were steped but reflect very nearly 100' apart N - S. This profile shows a natural ridge which runs from the Southwest to the Northeast and the natural fall being to the Southeast.

Mr. Verner is the owner of the Northwest 119 acres of Section 18, blk. 4 X, Terry County, Texas.

THE STATE OF TEXAS |

|

COUNTY OF TERRY | 6373

KNOW ALL MEN BY THESE PRESENTS:

That We, T. E. Verner and wife, Gracie S. Verner, for and in consideration of the sum of $1.00 to us in hand paid by the City of Meadow, the receipt of which is hereby acknowledged and confessed, have granted, bargained and ~~sold~~ by these presents do bargain, grant, & perpetual easement unto the said City of Meadow the free and uninterrupted use, liberty and privilege of and passage in and along a certain way across a certain tract of land situated in said County of Terry and being a part of the same tract of land conveyed to grantors herein by F. M. Crump by deed dated ~~December~~ 6, 1945, recorded in Vol. 78, at Page 333, of the Deed Records of Terry County, Texas, and being a part of Section 18, Block 4-X, E. L. & R. R. Ry. Co. Survey in Terry County, Texas. The easement herein granted is for the tract of land in said above described tract as follows, to-wit:

A tract of land 20 feet wide and 400 feet long, along the East side of said above described tract of land and adjacent to the Panhandle and Santa Fe Ry. Co. right-of-way, and a tract of land beginning 400 feet northeast of the southeast corner, said point being in the east line of the above described tract of land in the right-of-way line of the Panhandle and Santa Fe Ry. Co. right-of-way, for the place of beginning;
THENCE in a northeast direction along the east side of said above described tract of land and with the Panhandle & Santa Fe Ry. Co. right-of-way, a distance of 675 feet to the northeast corner of this tract;
THENCE Northwest a distance of 425 feet to a point for corner;
THENCE South 720 feet to a point for corner;
THENCE in a southeasterly direction 150 feet to the place of beginning.

This easement is granted to the City of Meadow and is for the perpetual use of said city with free ingress, egress and regress to and for the said City of Meadow at all times and seasons for the purpose of laying and establishing a sewer line and a sewer disposal plant on said land and the

to her, she, the said Gracie S. Verner, acknowledged such instrument to be her act and deed, and she declared that she had willingly signed the same for the purposes and consideration therein expressed, and that she did not wish to retract it.

Given under my hand and seal of office, this 16 day of August, A. D. 1961.

Notary Public, Terry County, Texas

Special Provisions

SEE ATTACHMENT

This permit becomes effective April 30, 1971 and is valid until amended or revoked by the Board.

SUED this 30th day of April, 19 71.

Acting Director

For the Board

Waste Control Order No. 10346
City of Meadow

Attachment
Effective Date: April 30, 1971

SPECIAL PROVISIONS:

This order is granted subject to the policy of the Board to encourage the development of area-wide waste collection, treatment and disposal systems. The Board reserves the right to amend this order in accordance with applicable procedural requirements to require the system covered by this order to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this order in any other

Waste Control Order No. 10346
City of Meadow

Attachment
Effective Date: April 30, 1971

SPECIAL PROVISIONS:

This order is granted subject to the policy of the Board to encourage the development of area-wide waste collection, treatment and disposal systems. The Board reserves the right to amend this order in accordance with applicable procedural requirements to require the system covered by this order to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this order in any other particular to effectuate the Board's policy. Such amendments may be made when, in the judgment of the Board, the changes required thereby are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

These public sewerage facilities shall be operated and maintained by a sewage plant operator holding a valid certificate of competency issued under the direction of the Texas State Health Department as required by Section 20 (a) of Article 4477-1, Vernon's Texas Civil Statutes.

Operation and maintenance of the facilities described by this waste control order shall be in accordance with accepted practices for this type of waste treatment facility and shall include related maintenance such as painting, proper disposal of solid waste, and weed and grass cutting.

The City shall comply with the provisions of Board Order No. 69-1219-1 relative to monitoring and reporting data on effluent described in "Conditions of the Board Order".

City of Meadow accepts said easement under the following conditions:

1. That the City of Meadow will hereafter fence said tract of land and will keep said land clean and free of weeds and other noxious grasses and plants, and in such a condition that it will not be hazardous or in a condition to where sand will pile up in and around the same.

2. That the City hereby gives to the grantors herein, their heirs and assigns a perpetual right to use all of the disposal water at said disposal plant.

3. The grantors herein, their heirs and assigns are obligated to the City of Meadow to take all excess water from said sewer disposal plant and to take care of the same to such an extent to where it will not overflow or become a hazard in the operation of said sewage disposal plant.

To have and to hold all and singular the privileges aforesaid to it, the said City of Meadow, to their proper use and in common with us, the said T. E. Verner and wife, Gracie S. Verner, our heirs and

[redacted].

Witness our hands this 3rd day of August, A. D. 1961.

T. E. Verner

Gracie S. Verner

THE STATE OF TEXAS

COUNTY OF TERRY

BEFORE ME, the undersigned authority, a Notary Public, in and for said county and state, on this day personally appeared T. E. Verner and Gracie S. Verner, his wife, both known to me to be the persons whose names are subscribed to the foregoing instrument, and acknowledged to me that they each executed the same for the purposes and consideration therein expressed, and the said Gracie S. Verner, wife of the said T. E. Verner, having been examined by me privily and apart from her husband, and having the same fully explained

WASTE WATER SERVICES CONTRACT

The State of Texas §

County of Terry §

This Agreement made and entered into this 1 day of August 2010, by and between the City of Meadow, Texas, hereinafter designated as the "CITY," and Danny Gregg, hereinafter designated as "CONTRACTOR".

WITNESSETH:

WHEREAS, the CITY currently holds a permit from the Texas Commission on Environmental Quality for a land application site for waste water disposal; and

WHEREAS, CONTRACTOR'S farm property adjacent to CITY'S sewer treatment plant is permitted as the City's land application site. The property is described in Exhibit "A" attached hereto and incorporated for all purposes; and

WHEREAS, CONTRACTOR desires to continue to receive water from the Meadow Waste Water Treatment Plant;

NOW THEREFORE, in consideration of the mutual covenants contained herein, the parties agree as follows:

1. TERM

1.01 The initial term of this Contract shall be for a period commencing on the 1st day of August, 2010, and terminating on the 31st day of July, 2015.

2. SERVICES PROVIDED

2.01 CONTRACTOR shall provide all labor, supervision, and application equipment necessary to provide waste water disposal services to the CITY for the consideration set out herein.

The services shall include but not be limited to the following:

a. CONTRACTOR shall take all available water from the sewer disposal plant and shall irrigate the 119 Acre premises owned by CONTRACTOR. CONTRACTOR understands that he may be required to take water even when not appropriate for farming purposes, however Irrigation Application rates shall not exceed 3.46 acre-feet per year per acre irrigated.

b. CONTRACTOR shall not allow wastewater to leave the premises or allow it to be discharged into draws, public roads or adjacent land. No wastewater may be placed upon any land other than the premises subject to this contract as shown in Exhibit A.

c. CONTRACTOR shall not irrigate the land within 500 feet of any well furnishing water to the CITY, nor shall cattle be allowed within 50 feet of any such well. Private Irrigation Wells, which have a watertight enclosure and an appropriate check valve on each well head, are not required to utilize the 250-foot buffer upon approval from the TCEQ in the permitting process.

d. CITY understands that the water provided may not be adequate for the purposes of CONTRACTOR. CITY agrees that CONTRACTOR may supplement water received from CITY with water produced from wells owned or operated by CONTRACTOR so long as such supplementation does not substantially reduce the ability of CONTRACTOR to receive water under this agreement, or contaminate the groundwater supply in any way. All private irrigation wells that will be used for this purpose shall have an appropriate check valve device installed on the well head to eliminate the potential of groundwater contamination.

3. CONSIDERATION

3.01 Consideration for this agreement is the mutual benefits realized by the parties as a result of the use and disposal of the water. CONTRACTOR shall retain all earnings derived from the sale of any crops or grazing grown upon the property irrigated. No grazing dairy cattle will be allowed under any circumstances.

4. DEFAULT / TERMINATION

4.01 Failure to meet any of the terms and conditions of this agreement on the part of CONTRACTOR shall be an event of default. Upon the occurrence of such event of default, the CONTRACTOR will be in default if the CONTRACTOR fails to cure the event of default within 7 days of the time written notice is delivered to them by the CITY. In the event of default, the CITY may take any of the following actions:

a. Terminate this agreement and/or:

b. Take such action and exercise such rights as the CITY may have at law or in equity. All rights and remedies of the CITY shall be cumulative and exercise of any right or remedy shall not be deemed a waiver, relinquishment or abandonment of any other right or remedy. City shall have no right to operate or otherwise take control of CONTRACTORS equipment or machinery.

4.02 Neither CITY nor CONTRACTOR shall be liable for failure to perform their duties if such failure is caused by a catastrophe, riot, war, fire, flood, lightning, act of God, or similar contingency beyond the reasonable control of the parties to this contract. However, if CONTRACTOR are unable to perform for any reason then CITY shall at its sole discretion be entitled to employ any and all methods and means which may be necessary in order to protect the health and safety of its residents and CONTRACTOR shall have no recourse against CITY as a result of such actions.

4.03 This contract may be terminated CONTRACTOR upon the following occurrences:

a. Mutual agreement of the parties after the required six- (6) month notice to either party;

b. Breach by the CITY of any of the conditions, covenants, or agreements contained herein upon thirty (30) days written notice to CITY by CONTRACTOR to cure such breach, covenant, condition or violation by CITY. Such notice must define with specificity the alleged breach and requirements CITY is required to remedy such breach. In the event the breach is such that it cannot be cured within thirty (30) days this agreement shall not terminate so long as the City begins working towards compliance and in good faith continues attempting to come into compliance.

5. MISCELLANEOUS PROVISIONS

5.01 **Amendments.** This Agreement constitutes the entire agreement between the parties hereto.

5.02 **Choice of Law.** This Agreement shall be governed by and construed in accordance with the laws of the State of Texas.

5.03 **Construction.** The language of this Agreement shall be construed according to its fair meaning and not strictly for or against either party. All words in this Agreement refer to whatever number or gender the context requires. Headings are for reference purposes and do not control interpretation. All the terms and words used in this Agreement, regardless of the number and gender in which they are used, shall be deemed and construed to include any other number (singular and plural) or any other gender (masculine, feminine, or neuter) as the context or sense of this Agreement, or any section or clause hereof may require. The locative adverbs "herein", "hereunder", "hereto", "hereinafter", and like words wherever the same appear herein, mean and refer to this Agreement in its entirety and not to any specific paragraph, section or subsection hereof unless otherwise expressly designated in context.

5.04 **Venue.** The parties hereto consent that venue of any action brought under this Agreement shall be in Terry County, Texas.

5.05 **Assignability.** This Agreement and any rights, duties and obligations thereunder may not be assigned without the prior written consent of all of the parties hereto and, in the event of an attempted assignment by one party to this Agreement without the express prior written consent of all other parties, such attempted assignment shall be void and without effect.

5.06 **Waiver.** Any waiver by any party of a breach of any provision of this Agreement shall not operate as or be construed to be a waiver of any other breach of such provision or of any breach of any other provision of this Agreement. The failure of a party to insist upon strict adherence to any term of this Agreement on one or more occasions shall not be considered a waiver or deprive that party of the right thereafter to insist upon strict adherence to that term

or any other term of this Agreement. Any waiver must be in writing and signed by a duly authorized representative of the waiving party.

5.07 **Binding Effect.** This Agreement shall be binding upon and inure solely to the benefit of the parties hereto, and their respective successors, employees, legal representatives, and permitted assigns, and no other person shall have any legal or equitable right, remedy or claim under or in respect of or by virtue of this Agreement or any provision herein contained.

5.08 **Entire Agreement.** This Agreement and the instruments called for by this Agreement constitute the whole Agreement of the parties and supersede any commitment, agreement, memorandum or understanding previously made by the parties or any of those with respect to the subject matter of this Agreement.

5.09 **Notices.** All notices contemplated and/or required herein shall be in writing and shall be delivered in person or sent via certified mail, unless specifically provided otherwise. Notice shall be completed when delivered in person or when placed in the mail addressed as follows:

City of Meadow
P. O. Box 156
Meadow, Texas 79345

Danny Gregg

5.10 **Access.** Staff of the City of Meadow and TCEQ shall have full access to the agricultural land to be irrigated at all times to inspect the irrigation practices for compliance.

5.11 **City's Agent**. CONTRACTOR agree to act as the City of Meadow agent solely for the City's compliance with those restrictions and regulations regarding the use of the water.

The parties may consent to a different address for notices from time to time in writing signed by both parties hereto.

Executed in multiple copies, each of which shall be deemed to be an original

Danny Gregg

DATE: 9-13-10

CITY OF MEADOW

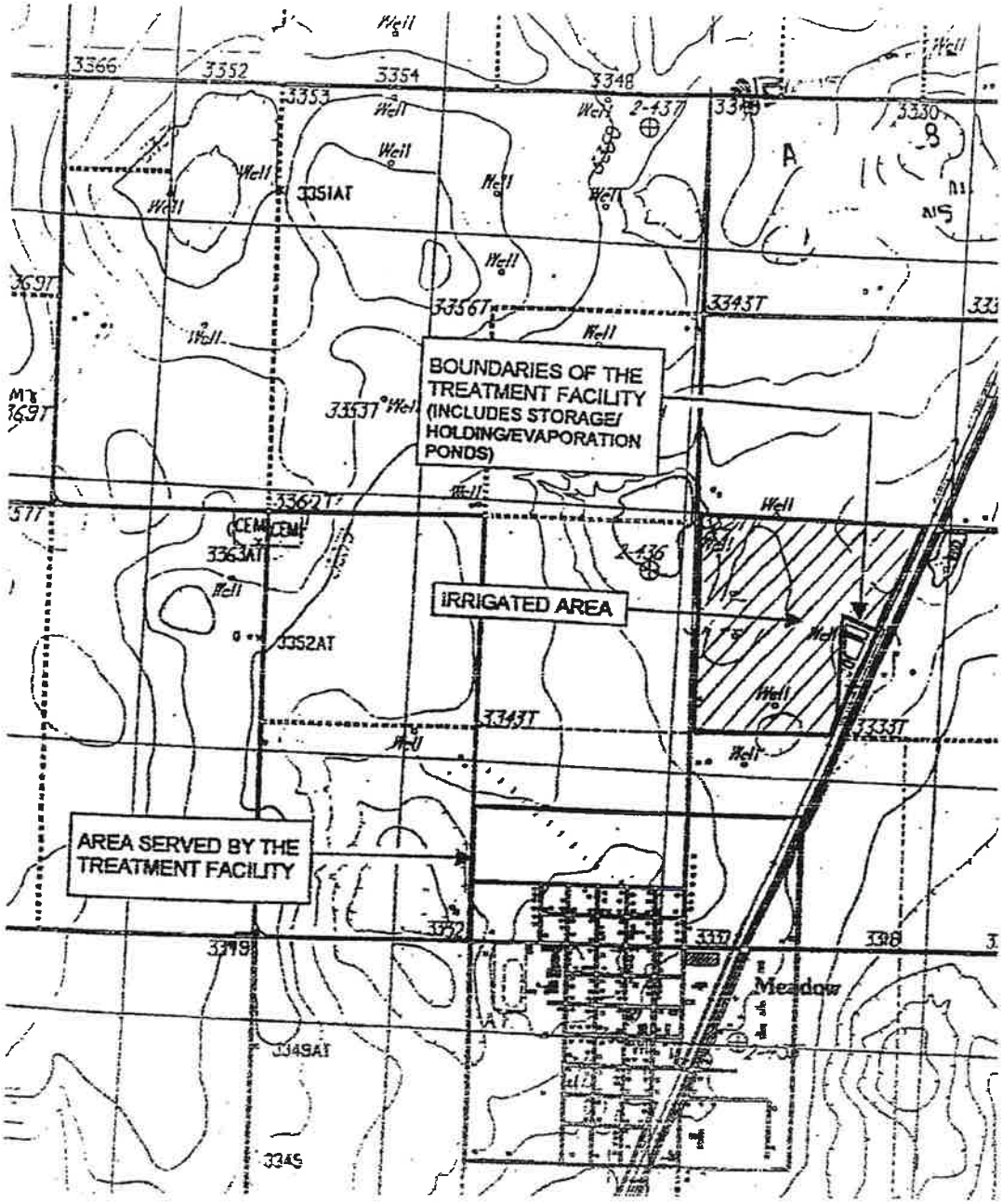
Eloisa Cuellar, Mayor

DATE: 10/13/10

ATTEST:

TERRI MCCLANAHAN NOTARY PUBLIC STATE OF TEXAS EXPIRES 09-03-2013

ATTACHMENT A
SITE PLAN



MWD/10346-001/PA

PERMIT NO. WQ0010346001

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

This is a renewal of Permit No. 10346-001 issued September 24, 1999.

PERMIT TO DISCHARGE WASTES
under provisions of Chapter 26
of the Texas Water Code

Permittee:

City of Meadow

P.O. Box 156
Meadow, Texas 79345

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 4952

General Description and Location of Waste Disposal System:

Description: The City of Meadow Wastewater Treatment Plant consists of an oxidation pond system. Treatment units include a series of four stabilization ponds. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.05 million gallons per day (MGD) via irrigation of 119 acres of land. Application rates shall not exceed 2.0 acre-feet per year per acre irrigated.

Location: The wastewater treatment facilities and disposal site are located approximately 2.0 miles north of the intersection of Farm-to-Market Road 211 and U.S. Highway 62 in Terry County, Texas. (See Attachment A.)

Drainage Area: The disposal site is located in the drainage area of Lake J. B. Thomas in Segment No.1413 of the Colorado River Basin. No discharge of pollutants into water in the State is authorized by this permit.

This permit and the authorization contained herein shall expire at midnight on December 1, 2014.

ISSUED DATE: JAN 20 2005

RECEIVED
DEC 20 2005
TCEQ
CENTRAL FILE ROOM

For the Commission

Attachment Index

Prepared By:

JACOB MARTIN

Firm #2448

Project #: 17390

325.695.1070
817.594.9880

info@jacobmartin.com
www.jacobmartin.com

3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086

JACOB MARTIN

INTEGRITY
EXCELLENCE
TRUST

June 24, 2024

Rachel Ellis
Applications Review and Processing Team (MC148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

RE: Application for Renewal of a Wastewater Treatment Plant Permit
City of Meadow
Permit No. WQ0010346001
RN101920015/CN600755029
NOD Response for Renewal of Existing Permit

Dear TCEQ:

Enclosed is the NOD Response for the application and related documents to renew Permit No. WQ0010346001.

The City of Meadow was in Negotiations with Danny Gregg, the New Landowner, as mentioned in the City's Letter, since June 21,2024 they have since came to an agreement as seen in Attachment #9.

If you have any questions, please feel free to contact me at our Abilene office (325) 695-1070 or email me at sfernandez@jacobmartin.com. Thank you for your assistance.

Sincerely,

Sarah Fernandez

JACOB | MARTIN

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 14, 2024

Ms. Terri McClanahan
City Secretary
City of Meadow
906 1st Street Meadow
Meadow, Texas 79345

RE: Application to Renew Permit No.: WQ0010346001
Applicant Name: City of Meadow (CN600755029)
Site Name: City of Meadow WWTP (RN101920015)
Type of Application: Renewal without changes

VIA EMAIL

Dear Ms. McClanahan:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email. In addition, please submit one original and two copies (including a cover letter) of the complete response.

1. Administrative Report, Section 9, Item E: Please either provide a current lease agreement or easement between the applicant – (City of Meadow) and the owner of the effluent disposal site- (Boyce Varner Estate Trust) or revise the Administrative Report to add the landowner as a co-applicant, including a Core Data Form and original signature page for the co-applicant.

2. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

   APPLICATION. City of Meadow, 906 1st Street, Meadow, Texas 79345, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010346001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 50,000 gallons per day via irrigation of 119 acres of land. The wastewater treatment facility and disposal area are located at 344 US Highway 82, in the city of Meadow, in Terry County, Texas 79345. TCEQ received this application on June 5, 2024. The permit application will be available for viewing and copying at Meadow City Hall, main office, 906 1st Street, Meadow, 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=-102.199722,32.349722&level=18

Further information may also be obtained from City of Meadow at the address stated above or by calling Ms. Terri McClanahan, City Secretary, at 806-539-2377.

Please submit the complete response, addressed to my attention by June 28, 2024. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4658 or by email at rachel.ellis@tceq.texas.gov

Sincerely,

Rachel Ellis

Rachel Ellis
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

re

Enclosure(s)

cc: Ms. Sarah Fernandez, Environmental Coordinator, Jacob Martin, 3465 Curry Lane, Abilene, Texas 79606

City of Meadow

906 1st Street • Meadow, TX 79345 • (806) 539-2377 • cityofmeadow@yahoo.com

Subject: Waste Water Services Contract

To Whom It May Concern,

The City of Meadow is currently in the process of negotiating with the landowner to renew the Waste Water Services Contract. The next City Council meeting is being held on June 20th, 2024. This is a topic on the agenda to be discussed and acted on by the mayor and council members. If you have any questions, please give us a call.

Thank you,

Desiree Ruiz
City Clerk
906 1st Street
Meadow, Texas 79345
(806) 539-2377

City of Meadow
WWTP Irrigation Site Application
Terry County, Texas
December 2024

ATTACHMENT #9

Lease Agreement

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880
info@jacobmartin.com
www.jacobmartin.com
3465 Curry Lane
Abilene, TX 76906
1508 Santa Fe, Suite 203
Weatherford, TX 76086

E. Owner of effluent disposal site:

Prefix: Mr. Last Name, First Name: Gregg, Danny

Title: Owner Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: 16205 CR 1735 City, State, Zip Code: Lubbock, Texas 79424

Phone No.: Click to enter text. E-mail Address: Click to enter text.

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: #9

F. Owner sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant)::

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

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

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

Phone No.: Click to enter text. E-mail Address: Click to enter text.

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

A. Is the wastewater treatment facility location in the existing permit accurate?

☐ Yes ☐ No

If **no, or a new permit application**, please give an accurate description:

Click to enter text.

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☐ No

If **no, or a new or amendment permit application**, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

Click to enter text.

City nearest the outfall(s): Click to enter text.

County in which the outfalls(s) is/are located: Click to enter text.

C. 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

WASTE WATER SERVICES CONTRACT

The State of Texas §

County of Terry §

This Agreement made and entered into this 21st day of JUNE, 2024, by and between the City of Meadow, Texas, hereinafter designated as the "CITY," and Danny Gregg, hereinafter designated as "CONTRACTOR".

WITNESSETH:

WHEREAS, the CITY currently holds a permit from the Texas Commission on Environmental Quality for land application site for waste water disposal; and

WHEREAS, CONTRACTOR'S farm property adjacent to CITY's sewer treatment plant is permitted as the City's land application site. The property is described in Exhibit "A" attached hereto and incorporated for all purposes; and

WHEREAS, CONTRACTOR desires to continue to receive water from the Meadow Waste Water Treatment Plant;

NOW THEREFORE, in consideration of the mutual covenants contained herein, the parties agree as follows:

1. TERM

1.01 The initial term of this Contract shall be for a period commencing on the 21st day of JUNE, 2024, and terminating on the 21st day of JUNE, 2029.

2. SERVICES PROVIDED

2.01 CONTRACTOR shall provide all labor, supervision, and application equipment necessary to provide wastewater disposal services to the CITY for the consideration set out herein.

The services shall include but not be limited to the following:

a. CONTRACTOR shall take all available water from the sewer disposal plant and shall irrigate the 119 Acre premises owned by CONTRACTOR. CONTRACTOR understands that he may be required to take water even when not appropriate for farming purposes, however Irrigation Application rate shall not exceed 2.0 acre-feet per year per acre irrigated.

b. CONRACTOR shall not allow wastewater to leave the premises or allow it to be discharged into draws, public roads, or adjacent land. No wastewater may be placed on any land other than the premises subject to this contract as shown in Exhibit A.

c. CONTRACTOR shall not irrigate the land within 500 feet of any well furnishing water to the CITY, nor shall cattle be allowed within 50 feet of any such well.

Private Irrigation Wells, which have a watertight enclosure and an appropriate check valve on each well head, are not required to utilize the 250-foot buffer upon approval from the TCEQ in the permitting process.

d. CITY understands that the water provided may not be adequate for the purposes of CONTRACTOR, CITY agrees that CONTRACTOR may supplement water received from CITY with water produced from wells owned or operated by CONTRACTOR so long as such supplementation does not substantially reduce the ability of CONTRACTOR to receive water under this agreement or contaminate the groundwater supply in any way. All private irrigation wells that will be used for this purpose shall have an appropriate check valve device installed on the well head to eliminate the potential of groundwater contamination.

3. CONSIDERATION

3.01 Consideration for this agreement is the mutual benefits realized by the parties as a result of the use and disposal of the water. CONTRACTOR shall retain all earnings derived from the sale of any crops or gazing grown upon the property irrigated. No grazing dairy cattle will be allowed under any circumstances.

4. DEFAULT / TERMINATION

4.01 Failure to meet any of the terms and conditions of this agreement on the part of CONTRACTOR shall be an event of default. Upon the occurrence of such event of default, the CONTRACTOR will be in default if the CONTRACTOR fails to cure the event of default within 7 days of the time written notice is delivered to them by the CITY. In the event of default, the CITY may take any of the following actions:

a. Terminate this agreement and/or:

b. Take such action and exercise such rights as the CITY may have at law or in equity. All rights and remedies of the CITY shall be cumulative and exercise of any right or remedy shall not be deemed a waiver, relinquishment, or abandonment of any other right or remedy. CITY shall have no right to operate or otherwise take control of CONTRACTORS' equipment or machinery.

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4.03 This contract may be terminated by CONTRACTOR upon the following occurrences:

a. Mutual agreement of the parties after the required six – (6) month notice to either party;

b. Breach by CITY of any of the conditions, covenants, or agreements contained herein upon thirty (30) days written notice to CITY by CONTRACTOR to cure such breach, covenant, condition, or violation by CITY. Such notice must define with specificity the alleged breach and requirements CITY is required to remedy such breach. In the event the breach is such that it cannot be cured within thirty (30) days this agreement shall not terminate so long as the City begins working towards compliance and in good faith continues attempting to come to compliance.

5. MISCELLANEOUS PROVISIONS

5.01 **Amendments.** This Agreement constitutes the entire agreement between the parties hereto.

5.02 **Choice of Law.** This Agreement shall be governed by and construed in accordance with the laws of the State of Texas.

5.03 **Construction.** The language of this Agreement shall be construed according to its fair meaning and not strictly for or against either party. All words in this Agreement refer to whatever number or gender the context requires. Headings are for reference purposes and do not control interpretation. All the terms and words used in this Agreement, regardless of the number and gender in which they are used, shall be deemed, and construed to include any other number (singular and plural) or any other gender (masculine, feminine, or neuter) as the context or sense of this Agreement, or any section or clause hereof may require. The locative adverbs "herein", "hereunder", "hereto", "hereinafter", and like words wherever the same appear herein, mean and refer to this Agreement in its entirety and not to any specific paragraph, section or subsection hereof unless otherwise expressly designated in context.

5.04 **Venue.** The parties hereto consent that venue of any action brought under this Agreement shall be in Terry County, Texas.

5.05 **Assignability.** This Agreement and any rights, duties and obligations thereunder may not be assigned without the prior written consent of all the parties hereto and, in the event of an attempted assignment by one party to this Agreement without the express prior written consent of all other parties, such attempted assignment shall be void and without effect.

5.06 **Waiver.** Any waiver by any party of a breach of any provision of this Agreement shall not operate as or be construed to be a waiver of any other breach of such provision or of any breach of any other provision of this Agreement. The failure of a party to insist upon strict adherence to any term of this Agreement on one or more occasions shall not be considered a waiver or deprive that party of the right thereafter to insist upon strict adherence to that term or any other term of this Agreement. Any waiver must be in writing and signed by a duly authorized representative of the waiving party.

5.07 **Binding Effect.** This Agreement shall be binding upon and inure solely to the benefit of the parties hereto, and their respective successors, employees, legal representatives, and permitted assigns, and no other person shall have any legal or equitable right, remedy or

claim under or in respect of or by virtue of this Agreement or any provision herein contained.

5.08 **Entire Agreement.** This Agreement and the instruments called for by this Agreement constitute the whole Agreement of the parties and supersede any commitment, agreement, memorandum or understanding previously made by the parties or any of those with respect to the subject matter of this Agreement.

5.09 **Notices.** All notices contemplated and/or required herein shall be in writing and shall be delivered in person or sent via certified mail, unless specifically provided otherwise. Notice shall be completed when delivered in person or when placed in mail addressed as follows:

City of Meadow
906 1st Steet
Meadow, Texas 79345

Danny Gregg
16205 CR 1735
Lubbock, Tx 79424

5.10 **Access.** Staff of the City of Meadow and TCEQ shall have full access to the agricultural land to be irrigated at all times to inspect the irrigation practices for compliance.

5.11 **City's Agent.** CONTRACTOR agrees to act as the City of Meadow agent solely for the City's compliance with those restrictions and regulations regarding the use of the water.

The parties may consent to a different address for notices from time to time in writing signed by both parties hereto.

Executed in multiple copies, each of which shall be deemed to be an original.

Danny Gregg

DATE: 06/21/2024

CITY OF MEADOW

Natalie Howard

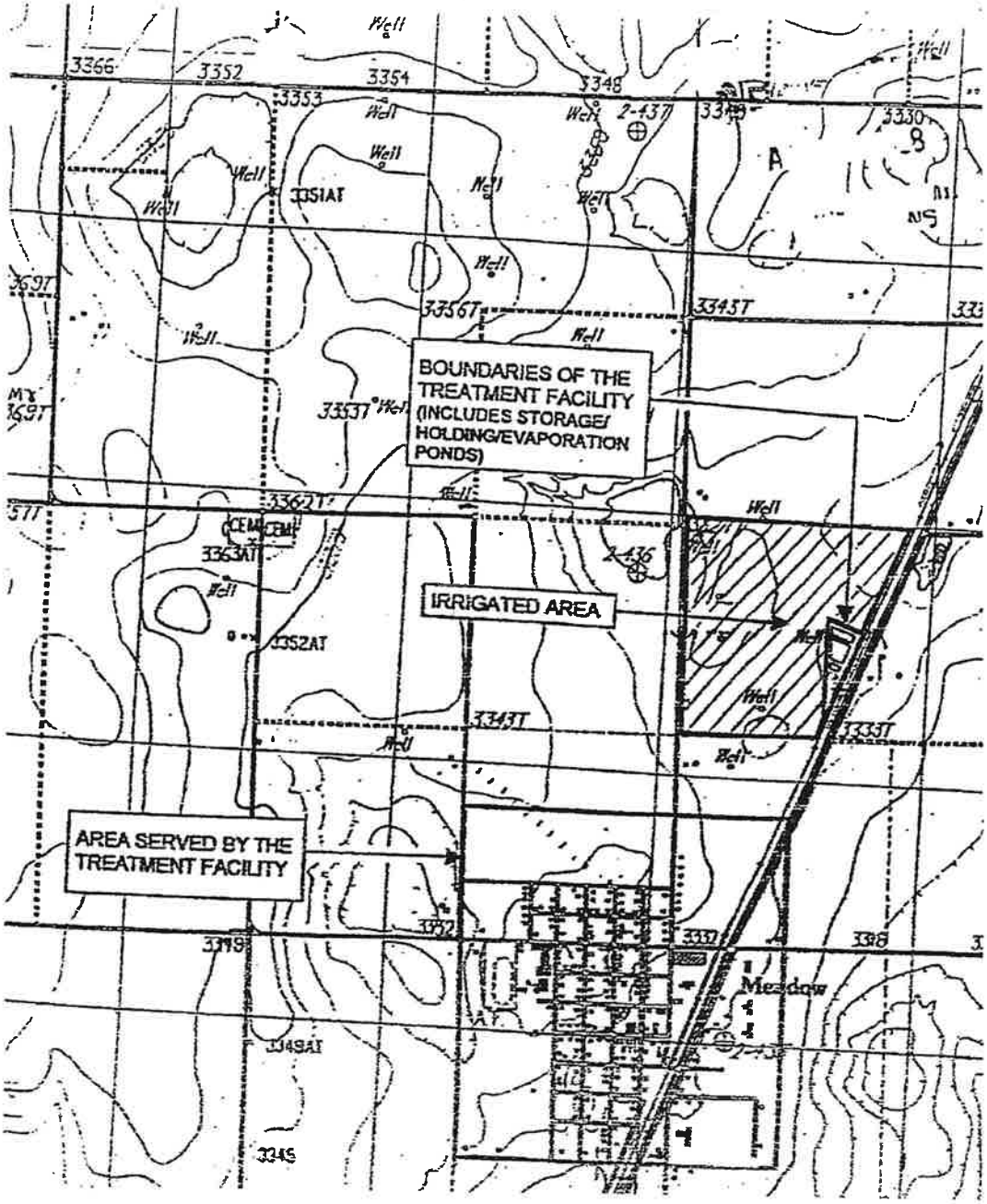
Natalie Howard, Mayor

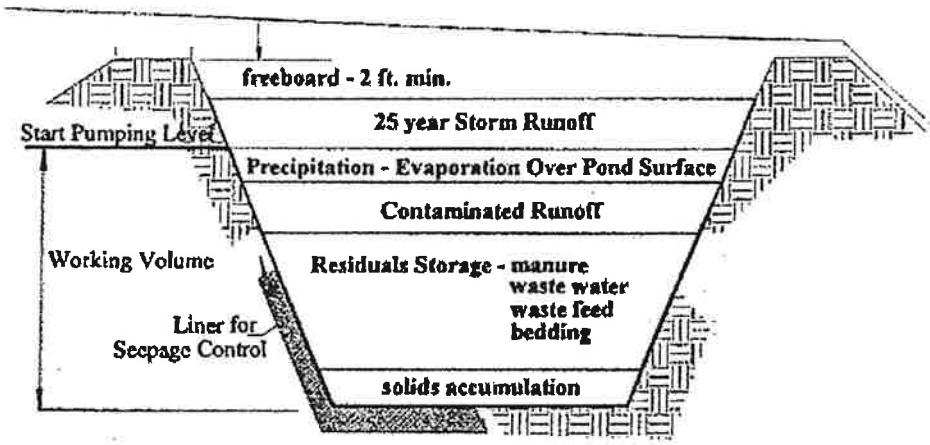
DATE: 06/21/2024

ATTEST:

City of Meadow

ATTACHMENT A
SITE PLAN




freeboard - 2 ft. min.
25 year Storm Runoff
Start Pumping Level
Precipitation - Evaporation Over Pond Surface
Contaminated Runoff
Working Volume
Residuals Storage - manure
waste water
waste feed
bedding
Liner for
Seepage Control
solids accumulation