



Technical 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. Second notice (NAPD-Notice of Preliminary Decision)
4. Application materials (**NOTE:** This application was declared Administratively Complete before June 1, 2024. Application materials are available for review at the Public Viewing Location provided in the NORI.)
5. Draft permit
6. Technical summary or fact sheet



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Wright City WSC (CN#600675284) operates Wright City WSC #1 (RN#101237063), a public water supply (facility). The facility is located at 18523 FM 2089 (approximate GPS coordinates 32.20154, -94.99400), in Overton, Smith County, Texas 75684. This is a request for a new industrial wastewater permit to discharge approximately 54,000 gallons per day of reject water. The discharge (reject water) will consist of untreated groundwater that has been processed through a nanofiltration system that removes larger molecules and ions from the water, such as organic matter, bacteria, calcium, and magnesium. This permit will not authorize a discharge of pollutants into water in the state.

The facility supports a public water supply system that filters groundwater for public use. Groundwater is collected and will go through a two-stage nanofiltration process where larger molecules and ions are stripped from the water prior to public use. The reject water that contains the larger molecules and ions will be discharged at the facility to a roadside ditch

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0005459000

APPLICATION. Wright City Water Supply Corporation, 24065 Lyles Lane, Troup, Texas 75789, which own(s) a public water supply facility, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005459000 (EPA I.D. No. TX0145963) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 54,000 gallons per day. The facility will be located at 18523 Farm-to-Market Road 2089, in the city of Overton, in Smith County, Texas 75684. The discharge route will be from the plant site to a roadside ditch; thence to an unnamed tributary; thence to Wright Branch; thence to Bowles Creek; thence to Lake Striker; thence to Striker Creek; thence to Angelina River Above Sam Rayburn Reservoir. TCEQ received this application on April 26, 2024. The permit application will be available for viewing and copying at Wright City Water Supply Corporation Office, 24065 Lyles Lane, Troup, Texas prior to the date this notice is published in the newspaper. 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=-94.993888,32.201666&level=18>

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

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

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who**

submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing. A contested case hearing is a legal proceeding similar to a civil trial in state district court.

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

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

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

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

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

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

Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Wright City Water Supply Corporation at the address stated above or by calling Mr. Charles Seale, President, at 903-859-1281.

Issuance Date: May 28, 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



COMBINED

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT AND NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR INDUSTRIAL WASTEWATER

NEW

Permit No. WQ0005459000

APPLICATION AND PRELIMINARY DECISION. Wright City Water Supply Corporation, 24065 Lyles Lane, Troup, Texas 75789, which proposes to operate Wright City Water Supply Corporation (WSC), a public water supply facility, has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit, Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005459000, to authorize the discharge of water treatment wastes at a volume not to exceed a daily average flow of 54,000 gallons per day. The TCEQ received this application on April 26, 2024.

This combined notice is to correct the initial notice which listed the discharge of “treated wastewater” as the water treatment waste is not treated.

The facility is located at 18523 Farm-to-Market 2089, in the City of Overton, Smith County, Texas 75684. This link to an electronic map of the site or facility’s general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-94.993888,32.201666&level=18>

The effluent is discharged from the plant to an unnamed ditch; thence to an unnamed tributary; thence to Wright Branch; thence to Bowles Creek; thence to Striker Creek; thence to Lake Striker; thence to Striker Creek; thence to Angelina River Above Sam Rayburn Reservoir in Segment No. 0611 of the Neches River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch and Wright Branch, limited aquatic life use for the unnamed tributary, and high aquatic life use for Bowles Creek. The designated uses for Segment No. 0611 are primary contact recreation, public water supply, and high aquatic life use.

In accordance with Title 30 Texas Administrative Code Section 307.5 and TCEQ’s *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in Bowles Creek, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Wright City Water Supply Corporation Office, 24065 Lyles Lane, Troup, Texas.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit written or oral comment or to ask questions about the application. Generally, the 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 public comments, the Executive Director will consider the comments and prepare a response to all relevant and material, or significant public comments. **The response to comments, along with the Executive Director's decision on the application, will be mailed to everyone who submitted public comments or who requested to be on a mailing list for this application. If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the Executive Director's decision.** A contested case hearing is a legal proceeding similar to a civil trial in a 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.**

EXECUTIVE DIRECTOR ACTION. The Executive Director may issue final approval of the application unless a timely contested case hearing request or a timely request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and requests to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

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 added to: (1) the permanent list for a specific applicant name and permit number; and (2) the mailing list for a specific county. If you wish to be placed on the permanent and the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or electronically at <https://www.tceq.texas.gov/goto/comment> within 30 days from the date of newspaper publication of this notice.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at <https://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. Public comments and requests must be submitted either electronically at <https://www.tceq.texas.gov/goto/comment>, 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 <https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation>. Si desea información en Español, puede llamar al 1-800-687-4040. Further information may also be obtained from Wright City Water Supply Corporation at the address stated above or by calling Mr. Charles Seale, President, at 903-859-1281.

Issued: October 24, 2025

RANGER ENVIRONMENTAL SERVICES, LLC
P.O. BOX 201179
AUSTIN, TEXAS 78720

REPORT: INDUSTRIAL WASTEWATER PERMIT APPLICATION
WRIGHT CITY WSC #1
18523 FM 2089
Overton (Smith County), Texas

CN No.: 600675284
RN No.: 101237063

Attn: Applications Review and Processing Team
Texas Commission on Environmental Quality
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78711-30876439



0005459000



COPY

April 22, 2024

Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team, MC-148
P.O. Box 13087
Austin, Texas 78711-3087

Re: Industrial Wastewater Permit Application
Wright City WSC 1
18523 FM 2089
Overton, Texas 75684

To Whom It May Concern:

Ranger Environmental Services, LLC (Ranger), on behalf of Wright City Water Supply Company, is pleased to submit the attached industrial wastewater permit application. Should you have any questions or need any additional information, please do not hesitate to contact me at 512/335-1785, ext. 128.

Sincerely,
RANGER ENVIRONMENTAL SERVICES, INC.

Max Cook, CAPM
Project Manager

Attachments

cc: Mr. Charles Seale, Wright City Water Supply Company

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

- ☒ Core Data Form (TCEQ Form No. 10400)
(Required for all applications 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
(TCEQ Form Nos. 10055 and 10411. Version dated 5/10/2019 or later.)
- ☐ Water Quality Permit Payment Submittal Form (Page 14)
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)
- ☒ 7.5 Minute USGS Quadrangle Topographic Map Attached
*(Full-size map if seeking "New" permit.
8 ½ x 11 acceptable for Renewals and Amendments.)*
- ☒ N/A ☐ Current/Non-Expired, Executed Lease Agreement or Easement Attached
- ☒ N/A ☐ Landowners Map
(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.

- ☒ N/A ☐ Landowners Cross Reference List
(See instructions for landowner requirements.)
- ☒ N/A ☐ Landowners Labels or CD-RW attached
(See instructions for landowner requirements.)
- ☒ Original signature per 30 TAC § 305.44 - Blue Ink Preferred
(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

**INDUSTRIAL WASTEWATER PERMIT
APPLICATION**

ADMINISTRATIVE REPORT

(TCEQ 10411)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: Wright City WSC 1

PERMIT NUMBER (If new, leave blank): WQ00 Click to enter text.

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

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

For TCEQ Use Only

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use the Oil and Gas Exploration and Production Administrative Report ([TCEQ Form-20893 and 20893-inst¹](#)).

Item 1. Application Information and Fees (Instructions, Page 26)

- a. Complete each field with the requested information, if applicable.

Applicant Name: Wright City WSC

Permit No.: WQ000[Click to enter text.](#)

EPA ID No.: TX0[Click to enter text.](#)

Expiration Date: [Click to enter text.](#)

- b. Check the box next to the appropriate authorization type.

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

- c. Check the box next to the appropriate facility status.

☒ Active

☐ Inactive

- d. Check the box next to the appropriate permit type.

☒ TPDES Permit

☐ TLAP

☐ TPDES with TLAP component

- e. Check the box next to the appropriate application type.

☒ New

☐ Renewal with changes

☐ Renewal without changes

☐ Major amendment with renewal

☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

- f. If applying for an amendment or modification, describe the request: [Click to enter text.](#)

For TCEQ Use Only

Segment Number _____ County _____

Expiration Date _____ Region _____

Permit Number _____

¹ https://www.tceq.texas.gov/publications/search_forms.html

g. Application Fee

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

h. Payment Information

Mailed

Check or money order No.: [Click to enter text.](#)

Check or money order amt.: [Click to enter text.](#)

Named printed on check or money order: [Click to enter text.](#)

Epay

Voucher number: 700274 & 700275

Copy of voucher attachment: 13

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN600675284

Note: Locate the customer number using the [TCEQ's Central Registry Customer Search](#)³.

b. Legal name of the entity (applicant) applying for this permit: Wright City WSC

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

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

Prefix: Mr. Full Name (Last/First Name): Seale Charles

Title: President

Credential: [Click to enter text.](#)

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

☒ Yes ☐ No

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

³ <https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch>

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

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

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

a. Legal name of the entity (co-applicant) applying for this permit: Click to enter text.

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

b. Customer Number (if applicant is an existing customer): CNClick to enter text.

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

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

Prefix: Click to enter text.

Full Name (Last/First Name): Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

☐ Yes ☐ No

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

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

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: 1

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

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

a. ☒ Administrative Contact . ☐ Technical Contact

Prefix: Ms Full Name (Last/First Name): Seale Linda

Title: Office Manager Credential: Click to enter text.

Organization Name: Wright City WSC

Mailing Address: 24065 Lyles Lane City/State/Zip: Troup, Texas 75789

Phone No: 903-859-1281 Email: wrightcitywsc@gmail.com

b. ☐ Administrative Contact ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Seale Charles

Title: President Credential: Click to enter text.

Organization Name: Wright City WSC

Mailing Address: 24065 Lyles Lane City/State/Zip: Troup, Texas 75789

Phone No: 903-859-1281

Email: cseale24113@gmail.com

Attachment: N/A

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

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

- a. Prefix: Mr. Full Name (Last/First Name): Seale Charles
Title: President Credential: Click to enter text.
Organization Name: Wright City WSC
Mailing Address: 24065 Lyles Lane City/State/Zip: Troup, Texas 75789
Phone No: 903-859-1281 Email: cseale24113@gmail.com
- b. Prefix: Mr. Full Name (Last/First Name): Sowell Chris
Title: Project Manager Credential: Click to enter text.
Organization Name: Ranger Environmental Services, LLC.
Mailing Address: 7215 Mcneil Drive City/State/Zip: Austin, Texas 78729
Phone No: 512-826-3399 Email: chris@rangerenv.com
Attachment: Click to enter text.

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

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

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

Prefix: Mr. Full Name (Last/First Name): Seale Charles
Title: President Credential: Click to enter text.
Organization Name: Wright City WSC
Mailing Address: 24065 Lyles Lane City/State/Zip: Troup, Texas 75789
Phone No: 903-859-1281 Email: wrightcitywsc@gmail.com

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

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

Prefix: Ms. Full Name (Last/First Name): Seale Linda
Title: Office Manager Credential: Click to enter text.
Organization Name: Wright City WSC
Mailing Address: 24065 Lyles Lane City/State/Zip: Troup, Texas 75789
Phone No: 903-859-1281 Email: wrightcitywsc@gmail.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms. Full Name (Last/First Name): Seale Linda

Title: Office Manager Credential: Click to enter text.

Organization Name: Wright City WSC

Mailing Address: 24065 Lyles Lane City/State/Zip: Troup, Texas 75789

Phone No: 903-859-1281 Email: wrightcitywsc@gmail.com

b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)

☒ E-mail: wrightcitywsc@gmail.com

☐ Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

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

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Seale Charles

Title: President Credential: Click to enter text.

Organization Name: Wright City WSC

Phone No: 903-859-1281 Email: wrightcitywsc@gmail.com

d. Public Viewing Location Information

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

Public building name: Wright City WSC - Office Location within the building: Wall Inside

Physical Address of Building: 24065 Lyles Lane

City: Troup County: Smith

e. Bilingual Notice Requirements

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

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

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

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

☐ Yes ☒ No

If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?
☐ Yes ☐ No
3. Do the students at these schools attend a bilingual education program at another location?
☐ Yes ☐ No
4. Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?
☐ Yes ☐ No ☐ N/A
5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? [Click to enter text.](#)
- f. Plain Language Summary Template - Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: 15
- g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: 2

Item 10. Regulated Entity and Permitted Site Information (Instructions Page 29)

- a. TCEQ issued Regulated Entity Number (RN), if available: RN101237063

Note: If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

- b. Name of project or site (the name known by the community where located): Wright City WSC 1

- c. Is the location address of the facility in the existing permit the same?

☐ Yes ☐ No ☒ N/A (new permit)

Note: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County, additional information concerning protection of the Edwards Aquifer may be required.

- d. Owner of treatment facility:

Prefix: [Click to enter text.](#) Full Name (Last/First Name): [Click to enter text.](#)

or Organization Name: Wright City WSC

Mailing Address: 24065 Lyles Lane

City/State/Zip: Troup, Texas 75789

Phone No: 903-859-1281

Email: wrightcitywsc@gmail.com

- e. Ownership of facility: ☒ Public ☐ Private ☐ Both ☐ Federal

- f. Owner of land where treatment facility is or will be: [Click to enter text.](#)

Prefix: [Click to enter text.](#) Full Name (Last/First Name): [Click to enter text.](#)

or Organization Name: Wright City WSC

Mailing Address: 24065 Lyles Lane

City/State/Zip: Troup, Texas 78789

Phone No: 903-859-1281

Email: wrightcitywsc@gmail.com

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: Click to enter text.

- g. Owner of effluent TLAP disposal site (if applicable): N/A

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text.

City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

- h. Owner of sewage sludge disposal site (if applicable):

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text.

City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

Item 11. TDPES Discharge/TLAP Disposal Information (Instructions, Page 31)

- a. Is the facility located on or does the treated effluent cross Native American Land?

☐ Yes ☒ No

- b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.

☒ One-mile radius

☒ Three-miles downstream information

☒ Applicant's property boundaries

☐ Treatment facility boundaries

☒ Labeled point(s) of discharge

☒ Highlighted discharge route(s)

☐ Effluent disposal site boundaries

☐ All wastewater ponds

☐ Sewage sludge disposal site

☐ New and future construction

Attachment: 3

- c. Is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☒ No or New Permit

If no, or a new application, provide an accurate location description: N/A

- d. Are the point(s) of discharge in the existing permit correct?

☐ Yes ☒ No or New Permit

If no, or a new application, provide an accurate location description: 32.201457, -94.994152

- e. Are the discharge route(s) in the existing permit correct?

☐ Yes ☒ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: **Roadside ditch along FM 2089, thence to an unnamed tributary, thence to Wright Branch, thence to Bowles Creek. (Segment # 0611V)**

- f. City nearest the outfall(s): Arp

- g. County in which the outfalls(s) is/are located: Smith

- h. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☒ Yes ☐ No

If yes, indicate by a check mark if: ☐ Authorization granted ☒ Authorization pending

For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: Click to enter text.

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

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

☐ Yes ☐ No or New Permit ☐ Click to enter text.

If no, or a new application, provide an accurate location description: Click to enter text.

- j. City nearest the disposal site: Click to enter text.

- k. County in which the disposal site is located: Click to enter text.

- l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: Click to enter text.

- m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.

Item 12. Miscellaneous Information (Instructions, Page 33)

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

☐ Yes ☒ No

If yes, list each person: [Click to enter text.](#)

- b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: [Click to enter text.](#)

Total amount due: [Click to enter text.](#)

- c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: [Click to enter text.](#)

Amount due: [Click to enter text.](#)

Item 13. Signature Page (Instructions, Page 33)

Permit No: W0000 Click to enter text.

Applicant Name: Wright City WSC

Certification: I, Charles Seale, 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): Charles Seale

Signatory title: President

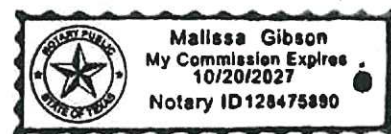
Signature: Charles Seale Date: 4-9-2024
(Use blue ink)

Subscribed and Sworn to before me by the said Charles Seale
on this 9th day of April, 20 24.
My commission expires on the October 20th day of October, 20 27.

Malin Gier
Notary Public

Smith
County, Texas

[SEAL]



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

INDUSTRIAL WASTEWATER PERMIT APPLICATION

ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

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

a. Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.

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

Attachment: 5

b. Check the box next to the format of the landowners list:

- ☐ Readable/Writeable CD
- ☐ Four sets of labels

Attachment: Click to enter text.

d. Provide the source of the landowners' names and mailing addresses:

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

- ☐ Yes
- ☒ No

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

Item 2. Original Photographs (Instructions, Page 37)

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

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

Attachment: 6

INDUSTRIAL 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: 14

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if mailing the payment. (Instructions, Page 36-37)

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Permit No: WQ000**[Click to enter text.](#)

1. Check or Money Order Number: [Click to enter text.](#)
2. Check or Money Order Amount: [Click to enter text.](#)
3. Date of Check or Money Order: [Click to enter text.](#)
4. Name on Check or Money Order: [Click to enter text.](#)

5. APPLICATION INFORMATION

Name of Project or Site: [Click to enter text.](#)

Physical Address of Project or Site: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 38)

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., or Miss): [Click to enter text.](#)

Full legal name (first, middle, and last): [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 No.: [Click to enter text.](#)

Fax No.: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

CN: [Click to enter text.](#)

**INDUSTRIAL WASTEWATER PERMIT
APPLICATION**

TECHNICAL REPORT

(TCEQ 10055)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION

TECHNICAL REPORT 1.0

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

For **additional information** or clarification on the requested information, please refer to the [Instructions for Completing the Industrial Wastewater Permit Application](https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html)¹ available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

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

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

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

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

SIC Code = 4941. Provide drinking water.

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

The facility is public water supply that will utilize a two stage nanofiltration system to filter groundwater for public use. The nanofiltration system uses membranes with very small pores to remove unwanted larger molecules and ions (bacteria, calcium, magnesium, organic matter, etc.) from the groundwater. The feed water filtered through the system will be for public use, while the reject water that contains the unwanted molecules and ions will be reject water discharged at the facility. The system will generate as much as 54,000 gallons per day of reject groundwater per day. No chemicals are added to the reject water before discharge.

¹
https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html

- c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

Materials List

Raw Materials	Intermediate Products	Final Products
Raw Water		Drinking Water

Attachment: [Click to enter text.](#)

- d. Attach a facility map (drawn to scale) with the following information:

- Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
- The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.

Attachment: 10

- e. Is this a new permit application for an existing facility?

☒ Yes ☐ No

If **yes**, provide background discussion: [Click to enter text.](#)

- f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: [Click to enter text.](#)

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: [Click to enter text.](#)

Attachment: 11

- g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?

☐ Yes ☒ No ☐ N/A (renewal only)

- h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?

☐ Yes ☐ No

If **yes**, provide the permit number: [Click to enter text.](#)

If **no**, provide an approximate date of application submittal to the USACE: [Click to enter text.](#)

Item 2. Treatment System (Instructions, Page 40)

- a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

The nanofiltration system uses membranes with very small pores to remove unwanted larger molecules and ions (bacteria, calcium, magnesium, organic matter, etc.) from the groundwater. The feed water filtered through the system will be for public use, while the reject water that contains the unwanted molecules and ions will be reject water discharged at the facility. The system will generate as much as 54,000 gallons per day of reject groundwater per day. No chemicals are added to the reject water before discharge.

- b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: 9

Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)

☐ Yes ☒ No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a - 3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a - 3.e.

- a. Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

Use Designation: Indicate the use designation for each impoundment as Treatment (T), Disposal (D), Containment (C), or Evaporation (E).

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

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

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

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

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

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

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

Impoundment Information

Parameter	Pond #	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)				
Associated Outfall Number				
Liner Type (C) (I) (S) or (A)				
Alt. Liner Attachment Reference				
Leak Detection System, Y/N				
Groundwater Monitoring Wells, Y/N				
Groundwater Monitoring Data Attachment				
Pond Bottom Located Above The Seasonal High-Water Table, Y/N				
Length (ft)				
Width (ft)				
Max Depth From Water Surface (ft), Not Including Freeboard				
Freeboard (ft)				
Surface Area (acres)				
Storage Capacity (gallons)				
40 CFR Part 257, Subpart D, Y/N				
Date of Construction				

Attachment: Click to enter text.

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

- b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.

1. Liner data

☐ Yes ☒ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☒ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☒ No ☐ Not yet designed

NOTE: Item b.3 is required if the bottom of the pond is not above the seasonal high-water table in the shallowest water-bearing zone.

Attachment: [Click to enter text.](#)

For TLAP applications: Items 3.c – 3.e are **not required**, continue to Item 4.

- c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: [Click to enter text.](#)

- d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: [Click to enter text.](#)

- e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Attachment: [Click to enter text.](#)

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

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

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

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

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
1.	32.2001360	-94.9944870

Outfall Location Description

Outfall No.	Location Description
1.	Roadside Ditch Along FM 2089

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

Outfall No.	Description of sampling point
1.	Roadside Ditch Along FM 2089

Outfall Flow Information - Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
1.			54,000 gpd		ASAP- 3/1/2025

Outfall Discharge - Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
1	Y	N	Water Meter

Outfall Discharge - Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
1	N	Y	N	24	28-31	12

Outfall Wastestream Contributions

Outfall No. [Click to enter text.](#)

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Reject Water from Nano-filtration unit	54,000 gpd	100

Outfall No. [Click to enter text.](#)

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

Outfall No. [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

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

a. Indicate if the facility currently or proposes to:

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

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

b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.

- Manufacturers Product Identification Number
- Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
- Chemical composition including CASRN for each ingredient
- Classify product as non-persistent, persistent, or bioaccumulative
- Product or active ingredient half-life
- Frequency of product use (e.g., 2 hours/day once every two weeks)
- Product toxicity data specific to fish and aquatic invertebrate organisms
- Concentration of whole product or active ingredient, as appropriate, in wastestream.

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

Attachment: [Click to enter text.](#)

c. Cooling Towers and Boilers

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

Cooling Towers and Boilers

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

Item 6. Stormwater Management (Instructions, Page 44)

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

- ☐ Yes ☒ No

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

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

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

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

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.

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

- a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?
- ☒ Yes ☐ No
- b. Has the permittee completed or planned for any improvements or construction projects?
- ☒ Yes ☐ No
- c. If **yes** to either 8.a or 8.b, provide a brief summary of the requirements and a status update: [Click to enter text.](#)

Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: [Click to enter text.](#)

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** [Click to enter text.](#)

Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

☐ Yes ☒ No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

b. Attach the following information to the application:

- List of wastes received (including volumes, characterization, and capability with on-site wastes).
- Identify the sources of wastes received (including the legal name and addresses of the generators).
- Description of the relationship of waste source(s) with the facility's activities.

Attachment: [Click to enter text.](#)

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?

☐ Yes ☐ No

If **yes**, provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity.

Attachment: [Click to enter text.](#)

d. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?

☐ Yes ☐ No

If **yes**, **Worksheet 6.0** of this application **is required**.

Item 11. Radioactive Materials (Instructions, Page 46)

a. Are/will radioactive materials be mined, used, stored, or processed at this facility?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

- b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

☐ Yes ☐ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

- a. Does the facility use or propose to use water for cooling purposes?

☐ Yes ☒ No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

- b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

☐ Yes ☐ No

If **yes**, stop here. If **no**, continue.

- c. Cooling Water Supplier

1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

Cooling Water Intake Structure(s) Owner(s) and Operator(s)

CWIS ID				
Owner				
Operator				

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: [PWS No. Click to enter text.](#)

3. Cooling water is/will be obtained from a reclaimed water source?

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: [Click to enter text.](#)

4. Cooling water is/will be obtained from an Independent Supplier

☐ Yes ☐ No

If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: [Click to enter text.](#)

d. 316(b) General Criteria

1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a cumulative design intake flow of 2 MGD or greater.

☐ Yes ☐ No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

☐ Yes ☐ No

3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in *40 CFR § 122.2*.

☐ Yes ☐ No

If **no**, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in *40 CFR § 122.2*: [Click to enter text.](#)

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f**.

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e**.

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses/proposes to use cooling towers**.

☐ Yes ☐ No

If **yes**, stop here. If **no**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ.

f. Oil and Gas Exploration and Production

1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.

☐ Yes ☐ No

If **yes**, continue. If **no**, skip to Item 12.g.

2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).

☐ Yes ☐ No

If **yes**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3.

g. Compliance Phase and Track Selection

1. Phase I - New facility subject to 40 CFR Part 125, Subpart I

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

- ☐ Track I - AIF greater than 2 MGD, but less than 10 MGD

- Attach information required by 40 CFR §§ 125.86(b)(2)-(4).

- ☐ Track I - AIF greater than 10 MGD

- Attach information required by 40 CFR § 125.86(b).

- ☐ Track II

- Attach information required by 40 CFR § 125.86(c).

Attachment: Click to enter text.

2. Phase II - Existing facility subject to 40 CFR Part 125, Subpart J

☐ Yes ☐ No

If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III - New facility subject to 40 CFR Part 125, Subpart N

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection and provide the requested information.

- ☐ Track I - Fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

- ☐ Track I - Not a fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).

- ☐ Track II - Fixed facility

- Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

Attachment: Click to enter text.

Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

- a. Is the facility requesting a **major amendment** of an existing permit?

☐ Yes ☒ No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

Click to enter text.

- b. Is the facility requesting any **minor amendments** to the permit?

☐ Yes ☒ No

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

Click to enter text.

- c. Is the facility requesting any **minor modifications** to the permit?

☐ Yes ☒ No

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

Click to enter text.

Item 14. Laboratory Accreditation (Instructions, Page 49)

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

- The laboratory is an in-house laboratory and is:
 - 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: Charles Seale

Title: President

Signature: Charles Seale

Date: 4-9-2024

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

This worksheet **is required** for all applications for TPDES permits for discharges of wastewaters subject to EPA categorical effluent limitation guidelines (ELGs).

Item 1. Categorical Industries (Instructions, Page 53)

Is this facility subject to any 40 CFR categorical ELGs outlined on page 53 of the instructions?

☐ Yes ☒ No

If **no**, this worksheet is not required. If **yes**, provide the appropriate information below.

40 CFR Effluent Guideline

Industry	40 CFR Part

Item 2. Production/Process Data (Instructions, Page 54)

NOTE: For all TPDES permit applications requesting individual permit coverage for discharges of oil and gas exploration and production wastewater (discharges into or adjacent to water in the state, falling under the Oil and Gas Extraction Effluent Guidelines - 40 CFR Part 435), see Worksheet 12.0, Item 2 instead.

a. Production Data

Provide appropriate data for effluent guidelines with production-based effluent limitations.

Production Data

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units

b. Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing Data (40 CFR Part 414)

Provide each applicable subpart and the percent of total production. Provide data for metal-bearing and cyanide-bearing wastestreams, as required by *40 CFR Part 414, Appendices A and B*.

Percentage of Total Production

Subcategory	Percent of Total Production	Appendix A and B - Metals	Appendix A - Cyanide

c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

Click to enter text.

Item 3. Process/Non-Process Wastewater Flows (Instructions, Page 54)

Provide a breakdown of wastewater flow(s) generated by the facility, including both process and non-process wastewater flow(s). Specify which wastewater flows are to be authorized for discharge under this permit and the disposal practices for wastewater flows, excluding domestic, which are not to be authorized for discharge under this permit.

A nano filtration plant will utilize groundwater and the system will need to backwash approximately 54,000gpd of water per day. Wastewater from this system will be placed onto ground. No chemicals are added before backwash process.

Item 4. New Source Determination (Instructions, Page 54)

Provide a list of all wastewater-generating processes subject to EPA categorical ELGs, identify the appropriate guideline Part and Subpart, and provide the date the process/construction commenced.

Wastewater Generating Processes Subject to Effluent Guidelines

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/ Construction Commenced

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 2.0: POLLUTANT ANALYSIS

Worksheet 2.0 is **required** for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 01/04/2024
- b. ☒ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** 12

Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** Click to enter text.

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☒ Grab

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	<2.0			
CBOD (5-day)	<2.0			
Chemical oxygen demand	35.8			
Total organic carbon	1.7			
Dissolved oxygen	10.4			
Ammonia nitrogen	0.805			
Total suspended solids	19.3			
Nitrate nitrogen	<0.3			
Total organic nitrogen	1.395			
Total phosphorus	0.83			
Oil and grease	<5.0			
Total residual chlorine	<0.1			

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total dissolved solids	730			
Sulfate	44.7			
Chloride	170			
Fluoride	0.33			
Total alkalinity (mg/L as CaCO3)	340			
Temperature (°F)	-			
pH (standard units)	8.63			

Table 2 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☒ Grab

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	3130				2.5
Antimony, total	<2.0				5
Arsenic, total	<0.5				0.5
Barium, total	42.4				3
Beryllium, total	<0.5				0.5
Cadmium, total	<1.0				1
Chromium, total	2.06				3
Chromium, hexavalent	<3.0				3
Chromium, trivalent	<3.0				N/A
Copper, total	3.42				2
Cyanide, available	<5				2/10
Lead, total	0.663				0.5
Mercury, total	0.00096				0.005/0.0005
Nickel, total	<2.0				2
Selenium, total	<2.0				5
Silver, total	<0.5				0.5
Thallium, total	<0.5				0.5
Zinc, total	7.92				5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 is required for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 is required for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene					10
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Methyl ethyl ketone					50
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(*) Indicate units if different from µg/L.

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

☐ Yes ☒ No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- ☐ Manufacturers and formulators of tributyltin or related compounds.
- ☐ Painting of ships, boats and marine structures.
- ☐ Ship and boat building and repairing.
- ☐ Ship and boat cleaning, salvage, wrecking and scaling.
- ☐ Operation and maintenance of marine cargo handling facilities and marinas.
- ☐ Facilities engaged in wood preserving.
- ☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. **E. coli (discharge to freshwater)**

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 is required for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

☒ N/A

Table 5 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

Completion of Table 6 **is required** for all **external outfalls**.

Table 6 for Outfall No.: [Click to enter text.](#)

Samples are (check one): ☐ Composite ☐ Grab

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAI (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					—
Nitrate-Nitrite (as N)	☐	☐					—
Sulfide (as S)	☐	☐					—
Sulfite (as SO3)	☐	☐					—
Surfactants	☐	☐					—
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

☒ N/A

Table 7 for Applicable Industrial Categories

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	☐ Yes	☐ Yes	☐ Yes	No
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	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 [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	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
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from µg/L.

Attachment: [Click to enter text.](#)

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

- ☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnell) CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4
- ☐ hexachlorophene (HCP) CASRN 70-30-4
- ☒ None of the above

Description: [Click to enter text.](#)

Does the applicant or anyone at the facility 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 the effluent proposed for discharge?

- ☐ Yes ☒ No

Description: [Click to enter text.](#)

If **yes** to either Items a or b, complete Table 12 as instructed.

Table 12 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					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					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 is required for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

☐ Yes ☒ No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐ Yes ☒ No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND APPLICATION OF EFFLUENT

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

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

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

- | | |
|--|--|
| ☐ Irrigation | ☐ Subsurface application |
| ☐ Evaporation | ☐ Subsurface soils absorption |
| ☐ Evapotranspiration beds | ☐ Surface application |
| ☐ Drip irrigation system | ☐ Other, specify: <u>Click to enter text.</u> |

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

Land Application Area Information

Effluent Application (gallons/day)	Irrigation Acreage (acres)	Describe land use & indicate type(s) of crop(s)	Public Access? (Y/N)

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

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

- Cool and warm season plant species
- Breakdown of acreage and percent of total acreage for each crop
- Crop growing season
- Harvesting method/number of harvests
- Minimum/maximum harvest height
- Crop yield goals
- Soils map
- Nitrogen requirements per crop
- Additional fertilizer requirements
- Supplemental watering requirements
- Crop salt tolerances
- Justification for not removing existing vegetation to be irrigated

Attachment:

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

a. Check each box to confirm the required information is shown and labeled on the attached USGS map:

- ☐ The exact boundaries of the land application area
- ☐ On-site buildings
- ☐ Waste-disposal or treatment facilities
- ☐ Effluent storage and tailwater control facilities
- ☐ Buffer zones
- ☐ All surface waters in the state onsite and within 500 feet of the property boundaries
- ☐ All water wells within ½-mile of the disposal site, wastewater ponds, or property boundaries
- ☐ All springs and seeps onsite and within 500 feet of the property boundaries

Attachment: [Click to enter text.](#)

b. List and cross reference all water wells located on or within 500 feet of the disposal site, wastewater ponds, or property boundaries in the following table. Attach additional pages as necessary to include all of the wells.

Well and Map Information Table

Well ID	Well Use	Producing? Y/N/U	Open, cased, capped, or plugged?	Proposed Best Management Practice

Attachment: [Click to enter text.](#)

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

- ☐ Yes ☐ No

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

Attachment: [Click to enter text.](#)

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

Attachment:

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

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

- ☐ USDA NRCS Soil Survey Map depicting the area to be used for land application with the locations identified by fields and crops.
- ☐ Breakdown of acreage and percent of total acreage for each soil type.
- ☐ Copies of laboratory soil analyses. **Attachment:**

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

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

Table 14 for Outfall No.: [Click to enter text.](#)

Samples are (check one): ☐

Composite

 Grab

[illegible]

Item 7. Pollutant Analysis (Instructions, Page 72)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): [Click to enter text.](#)
- b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Complete Tables 15 and 16.

Table 15 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO ₃)				
Temperature (°F)				
pH (standard units)				

Table 16 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 3.1: SURFACE LAND APPLICATION AND APPLICATION

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

Item 1. Edwards Aquifer (Instructions, Page 73)

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

☐ Yes ☒ No

If **no**, proceed to Item 2. If **yes**, complete Items 1.b and 1.c.

b. Check the box next to the subchapter applicable to the facility.

☐ 30 TAC Chapter 213, Subchapter A

☐ 30 TAC Chapter 213, Subchapter B

c. If *30 TAC Chapter 213, Subchapter A* applies, attach **either**: 1) a Geologic Assessment (if conducted in accordance with *30 TAC § 213.5*) **or** 2) a report that contains the following:

- A description of the surface geological units within the proposed land application site and wastewater pond area.
- The location and extent of any sensitive recharge features in the land application site and wastewater pond area
- A list of any proposed BMPs to protect the recharge features.

Attachment: [Click to enter text.](#)

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

a. Provide the following information on the irrigation operations:

Area under irrigation (acres): [Click to enter text.](#)

Design application rate (acre-ft/acre/yr): [Click to enter text.](#)

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

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

Design total nitrogen loading rate (lbs nitrogen/acre/year): [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.](#)

Irrigation efficiency (percent): [Click to enter text.](#)

Effluent conductivity (mmhos/cm): [Click to enter text.](#)

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

Curve number: [Click to enter text.](#)

Describe the application method and equipment: [Click to enter text.](#)

- b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance. **Attachment:** [Click to enter text.](#)

Item 3. Evaporation Ponds (Instructions, Page 74)

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

Item 4. Evapotranspiration Beds (Instructions, Page 74)

- a. Provide the following information on the evapotranspiration beds:
 - Number of beds: [Click to enter text.](#)
 - Area of bed(s) (acres): [Click to enter text.](#)
 - Depth of bed(s) (feet): [Click to enter text.](#)
 - Void ratio of soil in the beds: [Click to enter text.](#)
 - Storage volume within the beds (include units): [Click to enter text.](#)
 - Description of any lining to protect groundwater: [Click to enter text.](#)
- b. Attach a certification by a licensed Texas professional engineer that the liner meets TCEQ requirements. **Attachment:** [Click to enter text.](#)
- c. Attach a separate engineering report with water balance, storage volume calculations, and description of the liner. **Attachment:** [Click to enter text.](#)

Item 5. Overland Flow (Instructions, Page 74)

- a. Provide the following information on the overland flow:
 - Area used for application (acres): [Click to enter text.](#)
 - Slopes for application area (percent): [Click to enter text.](#)
 - Design application rate (gpm/foot of slope width): [Click to enter text.](#)
 - Slope length (feet): [Click to enter text.](#)
 - Design BOD5 loading rate (lbs BOD5/acre/day): [Click to enter text.](#)
 - Design application frequency (hours/day): [Click to enter text.](#)
 - Design application frequency (days/week): [Click to enter text.](#)
- b. Attach a separate engineering report with the method of application and design requirements according to 30 TAC § 217.212. **Attachment:** [Click to enter text.](#)

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 3.2: SUBSURFACE IRRIGATION (NON-DRIP)

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

- ☐ Check the box to confirm the Class V Injection Well Inventory/Authorization Form (Worksheet 9.0) has been submitted to the TCEQ UIC Permits Team as directed.

Item 1. Edwards Aquifer (Instructions, Page 75)

- a. The subsurface system is/will be located on the Edwards Aquifer Recharge Zone, as mapped by TCEQ?
☐ Yes ☒ No
- b. The subsurface system is/will be located on the Edwards Aquifer Transition Zone, as mapped by TCEQ?
☐ Yes ☒ No

If **yes** to Item 1.a **or** 1.b, the subsurface system may be prohibited by *30 TAC § 213.8*. Contact the Water Quality Assessment Section at (512) 239-4671 for a preapplication meeting.

Item 2. Subsurface Application (Instructions, Page 75)

- a. Check the box next to the type of subsurface land disposal system requested:
- ☐ Conventional drainfield, beds, or trenches
 - ☐ Low pressure dosing
 - ☐ Other: Click to enter text.
- b. Provide the following information on the irrigation operations:
- Application area (acres): Click to enter text.
- Area of drainfield (square feet): Click to enter text.
- Application rate (gal/square ft/day): Click to enter text.
- Depth to groundwater (feet): Click to enter text.
- Area of trench (square feet): Click to enter text.
- Dosing duration per area (hours): Click to enter text.
- Number of beds: Click to enter text.
- Dosing amount per area (inches/day): Click to enter text.
- Soil infiltration rate (inches/hour): Click to enter text.
- Storage volume (gallons): Click to enter text.
- Area of bed(s) (square feet): Click to enter text.
- Soil classification: Click to enter text.
- c. Attach a separate engineering report using *30 TAC § 309.20, Subchapter C, Land Disposal of Sewage Effluent* as guidance, excluding items b(3)(A) and b(3)(B). Include a description of the schedule of dosing basin rotation. **Attachment:** Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL SYSTEMS

This worksheet **is required** for all applications for a permit to dispose of wastewater using a subsurface area drip dispersal system (SADDs).

- ☐ Check the box to confirm the Class V Injection Well Inventory/Authorization Form (Worksheet 9.0) has been submitted to the TCEQ UIC Permits Team as directed.

Item 1. Edwards Aquifer (Instructions, Page 76)

- a. The subsurface system is/will be located on the Edwards Aquifer Recharge Zone, as mapped by TCEQ?
☐ Yes ☐ No
- b. The subsurface system is/will be located on the Edwards Aquifer Transition Zone, as mapped by TCEQ?
☐ Yes ☐ No

If **yes** to Item 1.a or 1.b, the subsurface system may be prohibited by 30 TAC § 213.8. Contact the Water Quality Assessment Section at (512) 239-4671 for a preapplication meeting.

Item 2. Administrative Information (Instructions, Page 76)

- 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: Click to enter text.
- b. The owner of the land where the WWTF is/will be located is the same as the owner of the WWTF.
☐ 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 WWTF is/will be located: Click to enter text.

- c. Provide the legal name of the owner of the SADDs: Click to enter text.
- d. The owner of the SADDs is the same as the owner of the WWTF or the site where the WWTF is/will be located.
☐ Yes ☐ No

If **no**, identify the legal name 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. Provide the legal name of the owner of the land where the SADDs is located: Click to enter text.

- f. The owner of the land where the SADDs is/will be located is the same as owner of the WWTF, the site where the WWTF is located, or the owner of the SADDs.

☐ Yes ☐ No

If **no**, provide the legal 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.

Item 3. SADDs (Instructions, Page 77)

- a. Check the box next to the type SADDs requested by this application:

☐ Subsurface drip/trickle irrigation

☐ Surface drip irrigation

☐ Other: Click to enter text.

- b. Attach a description of the SADDs proposed/used by the facility (see instructions for guidance). **Attachment:** Click to enter text.

- c. Provide the following information on the SADDs:

Application area (acres): Click to enter text.

Soil infiltration rate (inches/hour): Click to enter text.

Average slope of the application area: Click to enter text.

Maximum slope of the application area: Click to enter text.

Storage volume (gallons): Click to enter text.

Major soil series: Click to enter text.

Depth to groundwater (feet): Click to enter text.

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

- d. The facility is/will be located west of the boundary shown in 30 TAC § 222.83 **and** using a vegetative cover of non-native grasses over seeded with cool-season grasses.

☐ Yes ☐ No

If **yes**, the facility may propose a hydraulic application rate up to, but not to exceed, 0.1 gal/ft²/day.

- e. The facility is/will be located east of the boundary shown in 30 TAC § 222.83 **or** is the facility proposing 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.

- f. The facility has or plans to submit an alternative method to calculate the hydraulic application rate for approval by the ED.

☐ Yes ☐ No

If **yes**, provide the following information on the hydraulic application rates:

- Hydraulic application rate (gal/square foot/day): [Click to enter text.](#)
- Nitrogen application rate (gal/square foot/day): [Click to enter text.](#)

g. Provide the following dosing information:

Number of doses per day: [Click to enter text.](#)

Dosing duration per area (hours): [Click to enter text.](#)

Rest period between doses (hours): [Click to enter text.](#)

Dosing amount per area (inches/day): [Click to enter text.](#)

Number of zones: [Click to enter text.](#)

h. The system is/will be a surface drip irrigation system using existing native vegetation as a crop?

☐ Yes ☐ No

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

- A vegetation survey by a certified arborist describing the percent canopy cover and relative percentage of major overstory and understory plant species.

Attachment: [Click to enter text.](#)

- Attach a separate engineering report using *30 TAC § 309.20, Subchapter C, Land Disposal of Sewage Effluent* as guidance, excluding items b(3)(A) and b(3)(B). Include a description of the schedule of dosing basin rotation.

Attachment: [Click to enter text.](#)

Item 4. Required Plans (Instructions, Page 78)

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

Attachment: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

d. Provide soil sampling and testing with all information required in *30 TAC § 222.157*.

Attachment: [Click to enter text.](#)

Item 5. Flood and Run-On Protection (Instructions, Page 79)

a. Is the existing/proposed SADDs located within the 100-year frequency flood level?

☐ Yes ☐ No

Source: [Click to enter text.](#)

If **yes**, describe how the site will be protected from inundation: [Click to enter text.](#)

b. Is the existing/proposed SADDs within a designated floodway?

☐ Yes ☐ No

If **yes**, attach either the FEMA flood map or alternate information used to make this determination. **Attachment:** [Click to enter text.](#)

Item 6. Surface Waters in The State (Instructions, Page 79)

a. Attach a buffer map which shows the appropriate buffers on surface waters in the state, water wells, and springs/seeps. **Attachment:** [Click to enter text.](#)

b. The facility has or plans to request a buffer variance from water wells or waters in the state?

☐ Yes ☐ No

If **yes**, attach the additional information required in 30 TAC § 222.81(c). **Attachment:** [Click to enter text.](#)

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications.

Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

- a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

☐ Yes ☒ No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

1. The legal name of the owner of the drinking water supply intake: [Click to enter text.](#)
2. The distance and direction from the outfall to the drinking water supply intake: [Click to enter text.](#)

- b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.

☐ Check this box to confirm the above requested information is provided.

Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

- a. Width of the receiving water at the outfall: [Click to enter text.](#) feet

- b. Are there oyster reefs in the vicinity of the discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: [Click to enter text.](#)

- c. Are there sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: [Click to enter text.](#)

Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

☐ Yes ☒ No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

- a. Name of the immediate receiving waters: Unnamed Tributary
- b. Check the appropriate description of the immediate receiving waters:
- ☐ Lake or Pond
 - Surface area (acres): Click to enter text.
 - Average depth of the entire water body (feet): Click to enter text.
 - Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.
 - ☒ Man-Made Channel or Ditch
 - ☐ Stream or Creek
 - ☐ Freshwater Swamp or Marsh
 - ☐ Tidal Stream, Bayou, or Marsh
 - ☐ Open Bay
 - ☐ Other, specify:

If **Man-Made Channel or Ditch** or **Stream or Creek** were selected above, provide responses to Items 4.c – 4.g below:

- c. For **existing discharges**, check the description below that best characterizes the area **upstream** of the discharge.

For **new discharges**, check the description below that best characterizes the area **downstream** of the discharge.

- ☒ Intermittent (dry for at least one week during most years)
- ☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)
- ☐ Perennial (normally flowing)

Check the source(s) of the information used to characterize the area upstream (existing discharge) or downstream (new discharge):

- ☐ USGS flow records
- ☒ personal observation
- ☐ historical observation by adjacent landowner(s)
- ☐ other, specify: Click to enter text.

- d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Unnamed tributary, Wright Branch, Bowles Creek (Segment 0611V

- e. 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**, describe how: [Click to enter text.](#)

- f. General observations of the water body during normal dry weather conditions: [Click to enter text.](#)

Date and time of observation: [Click to enter text.](#)

- g. The water body was influenced by stormwater runoff during observations.

☐ Yes ☐ No

If **yes**, describe how: [Click to enter text.](#)

Item 5. General Characteristics of Water Body (Instructions, Page 81)

- a. Is the receiving water upstream of the existing discharge or proposed discharge site influenced by any of the following (check all that apply):

☐ oil field activities	☐ urban runoff
☐ agricultural runoff	☐ septic tanks
☐ upstream discharges	☐ other, specify: Click to enter text.

- b. Uses of water body observed or evidence of such uses (check all that apply):

☐ livestock watering	☐ industrial water supply
☐ non-contact recreation	☐ irrigation withdrawal
☐ domestic water supply	☐ navigation
☐ contact recreation	☐ picnic/park activities
☐ fishing	☐ other, specify: Click to enter text.

- c. Description which best describes the aesthetics of the receiving water and the surrounding area (check only one):

☐ **Wilderness:** outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional

☒ **Natural Area:** trees or native vegetation common; 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

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 4.1: WATERBODY PHYSICAL CHARACTERISTICS

The following information **is required** for new applications, EPA-designated Major facilities, and major amendment applications requesting to add an outfall if the receiving waters are perennial or intermittent with perennial pools (including impoundments) for a TDPEs permit.

Complete the transects downstream of the existing or proposed discharges.

Item 1. Data Collection (Instructions, Page 82)

- a. Date of study: [Click to enter text.](#) Time of study: [Click to enter text.](#)
 Waterbody name: [Click to enter text.](#)
 General location: [Click to enter text.](#)
- b. Type of stream upstream of an existing discharge or downstream of a proposed discharge (check only one):
☐ perennial ☐ intermittent with perennial pools ☐ impoundment
- c. No. of defined stream bends:
 Well: [Click to enter text.](#) Moderately: [Click to enter text.](#) Poorly: [Click to enter text.](#)
- d. No. of riffles: [Click to enter text.](#)
- e. Evidence of flow fluctuations (check one):
☐ Minor ☐ Moderate ☐ Severe
- f. Provide the observed stream uses and where there is evidence of channel obstructions/modifications: [Click to enter text.](#)
- g. Complete the following table with information regarding the transect measurements.

Stream Transect Data

Transect Location	Habitat Type*	Water Surface Width (ft)	Stream Depths (ft)**								

* riffle, run, glide, or pool

** channel bed to water surface

Item 2. Summarize Measurements (Instructions, Page 83)

Provide the following information regarding the transect measurements:

Streambed slope of entire reach (from USGS map in ft. /ft.): [Click to enter text.](#)

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

Length of stream evaluated (ft): [Click to enter text.](#)

Number of lateral transects made: [Click to enter text.](#)

Average stream width (ft): [Click to enter text.](#)

Average stream depth (ft): [Click to enter text.](#)

Average stream velocity (ft/sec): [Click to enter text.](#)

Instantaneous stream flow (ft³/sec): [Click to enter text.](#)

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

Flow fluctuations (i.e., minor, moderate, or severe): [Click to enter text.](#)

Size of pools (i.e., large, small, moderate, or none): [Click to enter text.](#)

Maximum pool depth (ft): [Click to enter text.](#)

Total number of stream bends: [Click to enter text.](#)

 Number well defined: [Click to enter text.](#)

 Number moderately defined: [Click to enter text.](#)

 Number poorly defined: [Click to enter text.](#)

Total number of riffles: [Click to enter text.](#)

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 5.0: SEWAGE SLUDGE MANAGEMENT AND DISPOSAL

The following information **is required** for all TPDES permit applications that meet the conditions as outlined in Technical Report 1.0, Item 7.

Item 1. Sewage Sludge Solids Management Plan (Instructions, Page 84)

a. Is this a new permit application or an amendment permit application?

☐ Yes ☐ No

b. Does or will the facility discharge in the Lake Houston watershed?

☐ Yes ☐ No

If **yes** to either Item 1.a or 1.b, attach a solids management plan. **Attachment:** [Click to enter text.](#)

Item 2. Sewage Sludge Management and Disposal (Instructions, Page 84)

a. Check the box next to the sludge disposal method(s) authorized under the facility's existing permit (check all that apply).

- ☐ Permitted landfill
- ☐ Marketing and distribution by the permittee, attach Form TCEQ-00551
- ☐ Registered land application site, attach Form TCEQ-00565
- ☐ Processed by the permittee, attach Form TCEQ-00744
- ☐ Surface disposal site (sludge monofill), attach Form TCEQ-00744
- ☐ Transported to another WWTP
- ☐ Beneficial land application, attach Form TCEQ-10451
- ☐ Incineration, attach Form TCEQ-00744

Based on the selection(s) made above, complete and attach the required TCEQ forms as directed. Failure to submit the required TCEQ form will result in delays in processing the application

Attachment: [Click to enter text.](#)

b. Provide the following information for each disposal site:

Disposal site name: [Click to enter text.](#)

TCEQ Permit/Registration Number: [Click to enter text.](#)

County where disposal site is located: [Click to enter text.](#)

c. Method of sewage sludge transportation:

☐ truck ☐ train ☐ pipe ☐ other: [Click to enter text.](#)

TCEQ Hauler Registration Number: [Click to enter text.](#)

d. Sludge is transported as a:

☐ liquid ☐ semi-liquid ☐ semi-solid ☐ solid

e. Purpose of land application: ☐ reclamation ☐ soil conditioning ☐ N/A

f. If sewage sludge is transported to another WWTP for treatment, attach a written statement or copy of contractual agreements confirming that the WWTP identified above will accept and be responsible for the sludge from this facility for the life of the permit (at least 5 years).

Attachment: [Click to enter text.](#)

Item 3. Authorization for Sewage Sludge Disposal (Instructions, Page 85)

If this is a new or major amendment application which requests authorization of a new sewage sludge disposal method, check the new sewage disposal method(s) requested for authorization (check all that apply):

- ☐ Marketing and distribution by the permittee, attach Form TCEQ-00551
- ☐ Processed by the permittee, attach Form TCEQ-00744
- ☐ Surface disposal site (sludge monofill), attach Form TCEQ-00744
- ☐ Beneficial land application, attach Form TCEQ-10451
- ☐ Incineration, attach Form TCEQ-00744

Based on the selection(s) made above, complete and attach any required TCEQ forms, as directed. Failure to submit the required TCEQ form will result in delays in processing the application.

Attachment: [Click to enter text.](#)

NOTE: New authorization for beneficial land application, incineration, processing, or disposal in the TPDES permit or TLAP **requires a major amendment to the permit.** New authorization for composting may require a major amendment to the permit. See the instructions to determine if a major amendment is required or if authorization for composting can be added through the renewal process.

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following information **is required** for all applications for publicly-owned treatment works (POTWs).

For an explanation of the terms used in this worksheet, refer to the General Definitions on pages 4-12 and the Definitions Relating to Pretreatment on pages 13-14 of the Instructions.

Item 1. All POTWs (Instructions, Page 86)

- a. Complete the following table with the number of each type of industrial users (IUs) that discharge to the POTW and the daily average flows from each.

Industrial User Information

Type of Industrial User	Number of Industrial Users	Daily Average Flow (gallons per day)
CIU		
SIU - Non-categorical		
Other IU		

- b. In the past three years, has the POTW experienced treatment plant interference?

☐ Yes ☐ No

If **yes**, identify the date(s), duration, nature of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IU(s) that may have caused the interference: [Click to enter text.](#)

- c. In the past three years, has the POTW experienced pass-through?

☐ Yes ☐ No

If **yes**, identify the date(s), duration, pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass-through event. Include the names of the IU(s) that may have caused the pass-through: [Click to enter text.](#)

- d. Does the POTW have, or is it required to develop, an approved pretreatment program?

☐ Yes ☐ No

If **yes**, answer all questions in Item 2 and skip Item 3.

If **no**, skip Item 2 and answer all questions in Item 3 for each SIU and CIU.

Item 2. POTWs With Approved Pretreatment Programs or Those Required To Develop A Pretreatment Program (Instructions, Page 86)

- a. Have there been any substantial modifications to the POTW's approved pretreatment program that have not been submitted to the Approval Authority (TCEQ) for approval according to 40 CFR § 403.18?

☐ Yes ☐ No

If **yes**, include an attachment which identifies all substantial modifications that have not been submitted to the TCEQ and the purpose of the modifications.

Attachment: [Click to enter text.](#)

- b. Have there been any non-substantial modifications to the POTW's approved pretreatment program that have not been submitted to the Approval Authority (TCEQ)?

☐ Yes ☐ No

If **yes**, include an attachment which identifies all non-substantial modifications that have not been submitted to the TCEQ and the purpose of the modification.

Attachment: [Click to enter text.](#)

- c. List all parameters measured above the MAL in the POTW's effluent monitoring during the last three years:

Effluent Parameters Measured Above the MAL

Pollutant	Concentration	MAL	Units	Date

Attachment: [Click to enter text.](#)

- d. Has any SIU, CIU, or other IU caused or contributed to any other problems (excluding interference or pass-through) at the POTW in the past three years?

☐ Yes ☐ No

If **yes**, provide a description of each episode, including date(s), duration, description of problems, and probable pollutants. Include the name(s) of the SIU(s)/CIU(s)/other IU(s) that may have caused or contributed to any of the problems: [Click to enter text.](#)

Item 3. Significant Industrial User and Categorical Industrial User Information (Instructions, Pages 88-87)

POTWs that **do not** have an approved pretreatment program **are required** to provide the following information for each SIU and CIU:

- a. Mr. or Ms.: [Click to enter text.](#) First/Last Name: [Click to enter text.](#)

Organization Name: [Click to enter text.](#)

SIC Code: [Click to enter text.](#)

Phone number: [Click to enter text.](#)

Email address: [Click to enter text.](#)

Physical Address: [Click to enter text.](#)

City/State/ZIP Code: [Click to enter text.](#)

Attachment: [Click to enter text.](#)

- b. Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (e.g., process and non-process wastewater): [Click to enter text.](#)

c. Provide a description of the principal products(s) or service(s) performed: [Click to enter text.](#)

d. Flow rate information

Flow Rate Information

Effluent Type	Discharge Day (gallons per day)	Discharge Frequency (Continuous, batch, or intermittent)
Process Wastewater		
Non-process Wastewater		

e. Pretreatment Standards

1. Is the SIU or CIU subject to technology-based local limits as defined in the application instructions?

☐ Yes ☐ No

2. Is the SIU subject to categorical pretreatment standards?

☐ Yes ☐ No

If **yes**, provide the category and subcategory or subcategories in the SIUs Subject To Categorical Pretreatment Standards table.

SIUs Subject to Categorical Pretreatment Standards

Category in 40 CFR	Subcategory in 40 CFR	Subcategory in 40 CFR	Subcategory in 40 CFR	Subcategory in 40 CFR

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

☐ Yes ☐ No

If **yes**, provide a description of each episode, including dates, duration, description of problems, and probable pollutants, and include the name(s) of the SIU(s)/CIU(s) that may have caused or contributed to the problem(s): [Click to enter text.](#)

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 7.0: STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES

This worksheet **is required** for all TPDES permit applications requesting individual permit coverage for discharges consisting of **either**: 1) solely of stormwater discharges associated with industrial activities, as defined in *40 CFR § 122.26(b)(14)(i-xi)*, **or** 2) stormwater discharges associated with industrial activities and any of the listed allowable non-stormwater discharges, as defined in the MSGP (TXR05000), Part II, Section A, Item 6.

Discharges of stormwater as defined in *40 CFR § 122.26 (b)(13)* are not required to obtain authorization under a TPDES permit (see exceptions at *40 CFR §§ 122.26(a)(1)* and *(9)*). Authorization for discharge may be required from a local municipal separate storm sewer system.

Item 1. Applicability (Instructions, Page 89)

Do discharges from any of the existing/proposed outfalls consist either 1) solely of stormwater discharges associated with industrial activities **or** 2) stormwater discharges associated with industrial activities and any of the allowable non-stormwater discharges?

☐ Yes ☒ No

If **no**, stop here. If **yes**, proceed as directed.

Item 2. Stormwater Coverage (Instructions, Page 89)

List each existing/proposed stormwater outfall at the facility and indicate which type of authorization covers or is proposed to cover discharges.

Authorization Coverage

Outfall	Authorization under MSGP	Authorized Under Individual Permit
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐

If **all** existing/proposed outfalls which discharge stormwater associated with industrial activities (and any of the allowable non-stormwater discharges) are **authorized under the MSGP**, **stop** here.

If **seeking authorization** for any outfalls which discharge stormwater associated with industrial activities (and any of the allowable non-stormwater discharges) **under an individual permit**, **proceed**.

NOTE: The following information is required for each existing/proposed stormwater outfall for which the facility is seeking individual permit authorization under this application

Item 3. Site Map (Instructions, Page 90)

Attach a site map or maps (drawn to scale) of the entire facility with the following information.

- the location of each stormwater outfall to be covered by the permit
- an outline of the drainage area that is within the facility's boundary and that contributes stormwater to each outfall to be covered by the permit
- connections or discharge points to municipal separate storm sewer systems
- locations of all structures (e.g. buildings, garages, storage tanks)
- structural control devices that are designed to reduce pollution in discharges of stormwater associated with industrial activities
- process wastewater treatment units (including ponds)
- bag house and other air treatment units exposed to stormwater (stormwater runoff, snow melt runoff, and surface runoff and drainage)
- landfills; scrapyards; surface water bodies (including wetlands)
- vehicle and equipment maintenance areas
- physical features of the site that may influence discharges of stormwater associated with industrial activities or contribute a dry weather flow
- locations where spills or leaks of reportable quality (as defined in 30 TAC § 327.4) have occurred during the three years before this application was submitted to obtain coverage under an individual permit
- processing areas, storage areas, material loading/unloading areas, and other locations where significant materials are exposed to stormwater (stormwater runoff, snow melt runoff, and surface runoff and drainage)

☐ Check the box to confirm all above information was provided on the facility site map(s).

Attachment: [Click to enter text.](#)

Item 4. Facility/Site Information (Instructions, Page 90)

- a. Provide the area of impervious surface and the total area drained by each stormwater outfall requested for authorization by this permit application.

Impervious Surfaces

Outfall	Area of Impervious Surface (include units)	Total Area Drained (include units)

- b. Provide the following local area rainfall information and the source of the information.
Wettest month: [Click to enter text.](#)
Average rainfall for wettest month (total inches): [Click to enter text.](#)
25-year, 24-hour rainfall (inches): [Click to enter text.](#)
Source: [Click to enter text.](#)
- c. Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. **Attachment:** [Click to enter text.](#)
- d. Attach narrative descriptions of the industrial processes and activities involving the materials in the above-listed inventory that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff (see instructions for guidance). **Attachment:** [Click to enter text.](#)
- e. Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility: [Click to enter text.](#)

Item 5. Pollutant Analysis (Instructions, Page 91)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): [Click to enter text.](#)
- b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Complete Table 17 as directed on page 92 of the Instructions.

Table 17 for Outfall No.: [Click to enter text.](#)

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled	MAL (mg/L)
pH (standard units)	(max)	—	(min)	—		—
Total suspended solids						—
Chemical oxygen demand						—
Total organic carbon						—
Oil and grease						—
Arsenic, total						0.0005
Barium, total						0.003
Cadmium, total						0.001
Chromium, total						0.003
Chromium, trivalent						—
Chromium, hexavalent						0.003
Copper, total						0.002

Item 6. Storm Event Data (Instructions, Page 93)

Provide the following data for the storm event(s) which resulted in the maximum values for the analytical data submitted:

Date of storm event: [Click to enter text.](#)

Duration of storm event (minutes): [Click to enter text.](#)

Total rainfall during storm event (inches): [Click to enter text.](#)

Number of hours between beginning of the storm measured and the end of the previous measurable storm event (hours): [Click to enter text.](#)

Maximum flow rate during rain event (gallons/minute): [Click to enter text.](#)

Total stormwater flow from rain event (gallons): [Click to enter text.](#)

Provide a description of the method of flow measurement or estimate:

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 8.0: AQUACULTURE

This worksheet is **required** for all TPDES permit applications requesting individual permit coverage for discharges of aquaculture wastewater.

Item 1. Facility/Site Information (Instructions, Page 94)

- a. Complete the following table with information regarding production ponds, raceways, and fabricated tanks at the facility.

Production Pond Descriptions

Number of Ponds	Dimensions (include units)	Area of Each Pond (include units)	Number of Ponds x Area of Ponds (include Units)
0			

Total surface area of all ponds: [Click to enter text.](#)

Raceway Descriptions

Number of Raceways	Dimensions (include units)
0	

Fabricated Tank Descriptions

Number of Tanks	Dimensions (include units)
0	

b. Does the facility have a TPWD-approved emergency plan?

☐ Yes ☒ No

If **yes**, attach a copy of the approved plan.

Attachment: [Click to enter text.](#)

c. Does the facility have an aquatic plant transplant authorization?

☐ Yes ☒ No

If **yes**, attach a copy of the authorization letter.

Attachment: [Click to enter text.](#)

d. Provide the number of aquaculture facilities located within 25-miles of this facility: [Click to enter text.](#)

Item 2. Species Identification (Instructions, Page 95)

Complete the following table regarding each species raised, source, origin, and disease status of the stock. Identify and attach copies of any current relevant authorizations or permits that authorize the species.

Stock Species Information

Species	Source of Stock	Origin of Stock	Disease Status	Authorizations

Attachment: [Click to enter text.](#)

Item 3. Stock Management Plan (Instructions, Page 95)

Attach a detailed stock management plan: [Click to enter text.](#)

Item 4. Water Treatment and Discharge Description (Instructions, Page 96)

Attach a detailed description of the discharge practices and water treatment process(es): [Click to enter text.](#)

Item 5. Solid Waste Management (Instructions, Page 96)

Attach a description of the solid waste-disposal practices: [Click to enter text.](#)

Item 6. Site Assessment Report (Instructions, Page 96)

All new and expanding commercial shrimp facilities located/to be located within the coastal zone must attach a detailed site assessment report which identifies sensitive aquatic habitats within the coastal zone: [Click to enter text.](#)

WORKSHEET 9.0

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 _____

Item 1. General Information (Instructions Page 99)

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.](#)

Item 2. Proposed Down Hole Design

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

Down Hole Design Table

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

Item 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.](#)

Item 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. Attach a list of contaminants and the levels (ppm) in contaminated aquifer as Attachment E.
9. Attach the Horizontal and Vertical extent of contamination and injection plume as Attachment F.
10. Attach Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc., 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.](#)

Item 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.
4. Previous Remediation. Attach results of any previous remediation as Attachment M.

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.

Item 6. CLASS V INJECTION WELL DESIGNATIONS

- 5A07 Heat Pump/AC return (IW used for groundwater to heat 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 Stormwater 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 groundwater 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 WTPP 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, 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)

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 10.0: QUARRIES IN THE JOHN GRAVES SCENIC RIVERWAY

This worksheet is **required** for all applications for individual permits for a municipal solid waste facility or mining facility located within a Water Quality Protection Area in the John Graves Scenic Riverway. **Note: Review 30 TAC §§ 311.71-311.82 thoroughly prior to completing any portion of this worksheet.**

Item 1. Exclusions (Instructions, Page 100)

- a. Is this a municipal solid waste facility?
☐ Yes ☐ No
- b. Has this quarry been in operation since January 1, 1994 without cessation of operation for more than 30 consecutive days and under the same ownership?
☐ Yes ☐ No
- c. Is this a coal mine?
☐ Yes ☐ No
- d. Is this facility mining clay and/or shale for use in manufacturing structural clay products?
☐ Yes ☐ No

If **yes** to **any** above question, **stop here**. The facility is required to maintain documentation, as outlined in *30 TAC § 311.72(c)*, at the facility to demonstrate the exclusion(s).

Item 2. Location of the Quarry (Instructions, Page 101)

Check the box next to the distance between the quarry and the nearest navigable water body:

- ☐ < 200 feet ☐ 200 feet – 1,500 feet ☐ 1,500 feet – 1 mile ☐ > 1 mile

NOTE: The construction or operation of any new quarry or expansion of any existing quarry is **prohibited** within 200 feet of any water body located within a Water Quality Protection Area in the John Graves Scenic Riverway.

Item 3. Additional Requirements (Instructions, Page 101)

Use the table in the Instructions to determine if additional application requirements apply to the facility based on distance between the quarry and the nearest waterway. Attach as appropriate or enter N/A.

- a. Attach a Restoration Plan: [Click to enter text.](#)
- b. Amount of Financial Assurance for Restoration: \$ [Click to enter text.](#)
Mechanism: [Click to enter text.](#)
- c. Attach a Technical Demonstration: [Click to enter text.](#)
- d. Attach a Reclamation Plan: [Click to enter text.](#)
- e. Amount of Financial Assurance for Reclamation: \$ [Click to enter text.](#)
Mechanism: [Click to enter text.](#)

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 11.0: COOLING WATER SYSTEM INFORMATION

This worksheet is **required** for all TPDES permit applications that meet the conditions outlined in Technical Report 1.0, Item 12.

Item 1. Cooling Water System Data (Instructions, Page 104)

a. Complete the following table with information regarding the cooling water system.

Cooling Water System Data

Parameter	Volume (include units)
Total DIF	
Total AIF	
Intake Flow Use(s) (%)	
Contact cooling	
Non-contact cooling	
Process Wastewater	
Other	

b. Attach the following information:

1. A narrative description of the design and annual operation of the facility's cooling water system and its relationship to the CWIS(s).
2. A scaled map depicting the location of each CWIS, impoundment, intake pipe, and canals, pipes, or waterways used to convey cooling water to, or within, the cooling water system. Provide the latitude and longitude for each CWIS and any intake pipe(s) on the map. Indicate the position of the intake pipe within the water column.
3. A description of water reuse activities, if applicable, reductions in total water withdrawals, if applicable, and the proportion of the source waterbody withdrawn (on a monthly basis).
4. Design and engineering calculations prepared by a qualified professional and data to support the information provided in above item a.
5. Previous year (a minimum of 12 months) of AIF data.
6. A narrative description of existing or proposed impingement and entrainment technologies or operation measures and a summary of their performance, including, but not limited to, reductions in impingement mortality and entrainment due to intake location and reductions in total water withdrawals and usage.

Attachment: [Click to enter text.](#)

Item 2. Cooling Water Intake Structure(s) Data (Instructions, Page 105)

- a. Complete the following table with information regarding each cooling water intake structure (this includes primary and make-up CWIS(s)).

Cooling Water Intake Structure(s) Data

CWIS ID				
DIF (include units)				
AIF (include units)				
Intake Flow Use(s) (%)				
Contact cooling				
Non-contact cooling				
Process Wastewater				
Other				
Latitude (decimal degrees)				
Longitude (decimal degrees)				

- b. Attach the following information regarding the CWIS(s):

1. A narrative description of the configuration of each CWIS, annual and daily operation, including any seasonal changes, and where it is located in the water body and in the water column.
2. Engineering calculations for each CWIS.

Attachment: [Click to enter text.](#)

Item 3. Source Water Physical Data (Instructions, Page 105)

- a. Complete the following table with information regarding the CWIS(s) source waterbody (this includes primary and make-up CWIS(s)).

Source Waterbody Data

CWIS ID				
Source Waterbody				
Mean Annual Flow				
Source				

- b. Attach the following information regarding the source waterbody.

1. A narrative description of the source water for each CWIS, including areal dimensions, depths, salinity and temperature regimes, and other documentation that supports this determination of the water body type where each cooling water intake structure is located.

2. A narrative description of the source waterbody's hydrological and geomorphological features.
3. Scaled drawings showing the physical configuration of all source water bodies used by the facility, including the source waterbody's hydrological and geomorphological features. **NOTE:** The source waterbody's hydrological and geomorphological features may be included on the map submitted for item 1.b.ii of this worksheet.
4. A description of the methods used to conduct any physical studies to determine the intake's area of influence within the waterbody and the results of such studies.

Attachment: [Click to enter text.](#)

Item 4. Operational Status (Instructions, Page 106)

- a. Is this application for a power production or steam generation facility?

☐ Yes ☐ No

If **no**, proceed to Item 4.b. If **yes**, provide the following information as an attachment:

1. Describe the operating status of each individual unit, including age, capacity utilization rate (or equivalent) for the previous five years (a minimum of 60 months), and any seasonal changes in operation.
2. Describe any extended or unusual outages or other factors which significantly affect current data for flow, impingement, entrainment.
3. Identify any operating unit with a capacity utilization rate of less than 8 percent averaged over a contiguous period of two years (a minimum of 24 months).
4. Describe any major upgrades completed within the last 15 years, including but not limited to boiler replacement, condenser replacement, turbine replacement, or changes of fuel type.

Attachment: [Click to enter text.](#)

- b. Process Units

1. Is this application for a facility which has process units that use cooling water (other than for power production or steam generation)?

☐ Yes ☐ No

If **no**, proceed to Item 4.c. If **yes**, continue.

2. Does the facility use or intend to use reductions in flow or changes in operations to meet the requirements of 40 CFR § 125.94(c)?

☐ Yes ☐ No

If **no**, proceed to Item 4.c. If **yes**, attach descriptions of the following information:

- Individual production processes and product lines
- The operating status, including age of each line and seasonal operation
- Any extended or unusual outages that significantly affect current data for flow, impingement, entrainment, or other factors

- Any major upgrades completed within the last 15 years and plans or schedules for decommissioning or replacement of process units or production processes and product lines.

Attachment: [Click to enter text.](#)

c. Is this an application for a nuclear power production facility?

☐ Yes ☐ No

If **no**, proceed to Item 4.d. If **yes**, attach a description of completed, approved, or scheduled upgrades and the Nuclear Regulatory Commission relicensing status for each unit at the facility.

Attachment: [Click to enter text.](#)

d. Is this an application for a manufacturing facility?

☐ Yes ☐ No

If **no**, proceed to Worksheet 11.1. If **yes**, attach descriptions of current and future production schedules and any plans or schedules for any new units planned within the next five years (a minimum of 60 mos)

Attachment: [Click to enter text.](#)

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 11.1: IMPINGEMENT MORTALITY

This worksheet **is required** for all TPDES permit applications **that meet the conditions outlined in Technical Report 1.0, Item 12**. Complete one copy of this worksheet for **each** individual CWIS the facility uses or proposes to use.

CWIS ID: [Click to enter text.](#)

Item 1. Impingement Compliance Technology Selection (Instructions, Page 107)

Check the box next to the method of compliance for the Impingement Mortality Standard selected by the facility.

- ☐ Closed-cycle recirculating system (CCRS) [40 CFR § 125.94(c)(1)]
- ☐ 0.5 ft/s Through-Screen Design Velocity [40 CFR § 125.94(c)(2)] - Proceed to Worksheet 11.2
- ☐ 0.5 ft/s Through Screen Actual Velocity [40 CFR § 125.94(c)(3)]
- ☐ Existing offshore velocity cap [40 CFR § 125.94(c)(4)] - Proceed to Worksheet 11.2
- ☐ Modified traveling screens [40 CFR § 125.94(c)(5)]
- ☐ System of technologies [40 CFR § 125.94(c)(6)]
- ☐ Impingement mortality performance standard [40 CFR § 125.94(c)(7)]
- ☐ De minimis rate of impingement [40 CFR § 125.94(c)(11)]
- ☐ Low capacity utilization power-generation facilities [40 CFR § 125.94(c)(12)]

If 0.5 ft/s Through-Screen Design Velocity [40 CFR § 125.94(c)(2)] or existing offshore velocity cap [40 CFR § 125.94(c)(4)] was selected, proceed to Worksheet 11.2. Otherwise, continue to Item 2.

Item 2. Impingement Compliance Technology Information (Instructions, Page 107)

Complete the following sections based on the selection made for item 1 above.

a. CCRS [40 CFR § 125.94(c)(1)]

- ☐ Check this box to confirm the CWS meets the definition of CCRS located at 40 CFR § 125.91(c) and provide a response to the following questions.

1. Does the facility use or propose to use a CWIS to replenish water losses to the CWS?

- ☐ Yes ☐ No

If **no**, proceed to item a.2. If **yes**, provide the following information as an attachment and continue.

- CWIS ID
- 12 months of intake flow data for any CWIS used for make-up intake flows to replenish cooling water losses, excluding intakes for losses due to blowdown, drift, or evaporation.

- A narrative description of any physical or operational measures taken to minimize make-up withdrawals.

Attachment: [Click to enter text.](#)

NOTE: Do not complete a separate Worksheet 11.1 for a make-up CWIS.

2. Does the facility use or propose to use cooling towers?

☐ Yes ☐ No

If **no**, proceed to Worksheet 11.2. If **yes**, provide the following information and proceed to Worksheet 11.2.

- Average number of cycles of concentration (COCs) prior to blowdown:

Average COCs Prior to Blowdown

Cooling Tower ID				
COCs				

- Attach COC monitoring data for each cooling tower from the previous year (a minimum of 12 months): [Click to enter text.](#)
- Maximum number of COCs each cooling tower can accomplish based on design of the system.

Calculated COCs Prior to Blowdown

Cooling Tower ID				
COCs				

- Describe conditions that may limit the number of COCs prior to blowdown, if any, including but not limited to permit conditions: [Click to enter text.](#)

b. 0.5 ft/s Through Screen Actual Velocity [40 CFR § 125.94(c)(3)]

Provide daily intake flow measurement monitoring data from the previous year (a minimum of 12 months) as an attachment and proceed to Worksheet 11.2.

Attachment: [Click to enter text.](#)

c. Modified traveling screens [40 CFR § 125.94(c)(5)]

Provide the following information as an attachment and proceed to Worksheet 11.2.

1. A description of the modified traveling screens and associated equipment.
2. A site-specific impingement technology performance optimization study that includes a narrative description of the biological data collection methods
3. Biological sampling data from the previous two years (a minimum of 24 months).

Attachment: [Click to enter text.](#)

d. System of technologies [40 CFR § 125.94(c)(6)] or impingement mortality performance standard [40 CFR § 125.94(c)(7)]

Provide the following information as an attachment and proceed to Worksheet 11.2.

1. A description of the system of technologies used or proposed for use by the facility to

achieve compliance with the impingement mortality standard.

2. A site-specific impingement technology performance optimization study that includes a narrative description of the biological data collection methods.
3. Biological sampling data from the previous two years (a minimum of 24 months).

Attachment: [Click to enter text.](#)

- e. De minimis rate of impingement [40 CFR § 125.94(c)(11)]

Provide the following information and proceed to Worksheet 11.2.

1. Attach monitoring data from the previous year (a minimum of 12 months) of intake flow measured at a frequency of 1/day on days of operation.

Attachment: [Click to enter text.](#)

2. If the rate of impingement caused by the CWIS is extremely low (at an organism or age-one equivalent count), attach supplemental information to Worksheet 11.0, item 1.b.6. to support this determination.

Attachment: [Click to enter text.](#)

- f. Low capacity utilization power-generation facilities [40 CFR § 125.94(c)(12)]

Attach monthly utilization data from the previous 2 years (a minimum of 24 months) for each operating unit and proceed to Worksheet 11.2.

Attachment: [Click to enter text.](#)

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 11.2: SOURCE WATER BIOLOGICAL DATA

This worksheet **is required** for all TPDES permit applications that **meet the conditions outlined in Technical Report 1.0, Item 12**. Complete one copy of this worksheet for **each** source waterbody of a CWIS for which a facility has selected an Impingement Mortality Technology Option described at *40 CFR §§ 125.94(c)(1)-(7)*.

Name of source waterbody: [Click to enter text.](#)

Item 1. Species Management (Instructions, Page 109)

- a. The facility has obtained an incidental take permit for its cooling water intake structure(s) from the USFWS or the NMFS.

☐ Yes ☐ No

If **yes**, attach any information submitted in order to obtain that permit, which may be used to supplement the permit application information requirements of paragraph *40 CFR § 125.95(f)*.

Attachment: [Click to enter text.](#)

- b. Is the facility requesting a waiver from application requirements at *40 CFR § 122.21(r)(4)* in accordance with *40 CFR § 125.95* for any CWIS(s) that withdraw from a man-made reservoir that is stocked and managed by a state or federal natural resources agency or the equivalent?

☐ Yes ☐ No

If **yes**, attach a copy of the most recent managed fisheries report to TPWD, or equivalent.

Attachment: [Click to enter text.](#)

- c. There are no federally listed threatened or endangered species or critical habitat designations within the source water body.

☐ True ☐ False

Item 2. Source Water Biological Data (Instructions, Page 109)

New Facilities (Phase I, Track I and II)

- Provide responses to all items in this section and stop.

Existing Facilities (Phase II)

- If the answer to **1.b.** above was **no**, provide responses to all items in this section and proceed to Worksheet 11.3.
- If the answer to **1.b.** was **yes** and **1.c.** was **true**, do not complete any items in this section and proceed to Worksheet 11.3.
- If the answer to **1.b.** was **yes** and **1.c.** was **false**, attach a response for any item in this section that is not contained within the most recent TPWD, or equivalent and proceed to Worksheet 11.3.

Attachment: [Click to enter text.](#)

- a. A list of the data requested at *40 CFR § 122.21(r)(4)(ii)* through *(vi)* that are not available, and efforts made to identify sources of the data.
- b. Provide a list of species (or relevant taxa) in the vicinity of the CWIS and identify the following information regarding each species listed.
 - all life stages and their relative abundance,
 - identification of all species and life stages that would be most susceptible to impingement and entrainment,
 - forage base,
 - significance to commercial fisheries,
 - significance to recreational fisheries,
 - primary period of reproduction,
 - larval recruitment, and
 - period of peak abundance for relevant taxa.
- c. Data representative of the seasonal and daily activities (e.g., feeding and water column migration) of biological organisms in the vicinity of the CWIS(s).
- d. Identify all threatened, endangered, and other protected species that might be susceptible to impingement and entrainment at the CWIS(s).
- e. Documentation of any public participation or consultation with federal or state agencies undertaken.

The following is required for existing facilities only. Include the following information with the above listed attachment.

- f. Identify any protective measures and stabilization activities that have been implemented and provide a description of how these measures and activities affected the baseline water condition in the vicinity of the intake.
- g. A list of fragile species, as defined at *40 CFR § 125.92(m)*, at the facility. The applicant need only identify those species not already identified as fragile at *40 CFR § 125.92(m)*.

NOTE: New units at an existing facility are not required to resubmit this information if the cooling water withdrawals for the operation of the new unit are from an existing intake.

INDUSTRIAL WASTEWATER PERMIT APPLICATION

WORKSHEET 11.3: ENTRAINMENT

This worksheet is **required** for all TPDES permit applications that **meet the conditions outlined in Technical Report 1.0, Item 12**. Complete one copy of this worksheet for **each** individual CWIS the facility uses or proposes to use.

CWIS ID: [Click to enter text.](#)

Item 1. Applicability (Instructions, Page 111)

Is the AIF of the CWIS identified above greater than, or equal to, 125 MGD?

☐ Yes ☐ No

- If **no** or the facility has selected **CCRS** [40 CFR § 125.94(c)(1)] for the impingement mortality compliance method, complete Item 2 and stop here.
- If **yes** and the facility is **seeking a waiver** from application requirements in accordance with 40 CFR § 125.95 for any CWIS(s) that withdraw from a man-made reservoir that is stocked and managed by a state or federal natural resources agency or the equivalent, complete item 2 and stop.
- If **yes** and the facility is **not seeking a waiver** from application requirements in accordance with 40 CFR § 125.95, complete item 2 and provide any required and completed studies listed in item 3. For any required studies in item 3 that are not complete, provide a detailed explanation for the delay and an anticipated schedule for completion and submittal.

Item 2. Existing Entrainment Performance Studies (Instructions, Page 111)

Attach any previously conducted studies or studies obtained from other facilities addressing technology efficacy, through-facility entrainment survival, and other entrainment studies.

Attachment: [Click to enter text.](#)

Item 3. Facility Entrainment Performance Studies (Instructions, Page 111)

- a. Attach an entrainment characterization study, as described at 40 CFR § 122.21(r)(9): [Click to enter text.](#)
- b. Attach a comprehensive feasibility study, as described as 40 CFR § 122.21(r)(10): [Click to enter text.](#)
- c. Attach a benefits valuation study, as described as 40 CFR § 122.21(r)(11): [Click to enter text.](#)
- d. Attach a non-water quality environmental and other impacts study, as described as 40 CFR § 122.21(r)(12): [Click to enter text.](#)
- e. Attach a peer review analysis, as described as 40 CFR § 122.21(r)(13): [Click to enter text.](#)

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 12.0: OIL AND GAS EXPLORATION, DEVELOPMENT, AND PRODUCTION WASTEWATER DISCHARGES

This worksheet **is required** for all TPDES permit applications that are subject to Effluent Limitation Guidelines in 40 CFR Part 435.

Item 1. Operational Information (Instructions, Page 112)

- a. Is the wastewater from an oil and gas exploration, development, or production facility located west of the 98th meridian?

☐ Yes ☐ No

If yes, continue to the next question. If no, skip to Item 2 relating to Production/Process Data.

- b. Provide justification for how the wastewater is/will be used for agriculture or wildlife propagation.

Click to enter text.

Item 2. Production/Process Data (Instructions, Page 112)

- a. Provide the applicable 40 CFR Part 435 Subpart(s).

Click to enter text.

- b. Describe if the permit being sought is for discharges from exploration, development, production, or for a combination of more than one of those activities.

Click to enter text.

- c. Provide information on all waste-streams generated and specify which waste-streams you are requesting to be authorized for discharge.

Wastestreams Generated

Wastestream	Requesting authorization to discharge? (Yes/No)	Volume (MGD)	% of Total Flow

- d. Describe how the facility will manage wastestreams for which discharge authorization is not being sought.

Click to enter text.

Attachment: Click to enter text.

- e. Provide information on miscellaneous discharges.

Click to enter text.

Attachment: Click to enter text.

- f. List of chemicals that are in use, or will be used, downhole. Provide the category, concentration used/to be used, and purpose of using the chemical. Attach a safety data sheet for each chemical listed.

Chemicals List

Category	Chemical Name	Concentration (include units)	Purpose

Attachment: [Click to enter text.](#)

- g. List of chemicals that are in use, or will be used, to treat the wastewater to be discharged under this authorization. Provide the concentration used/to be used and purpose of using the chemical. Attach a safety data sheet for each chemical listed.

Water Treatment Chemicals List

Category	Chemical Name	Concentration (include units)	Purpose

Attachment: [Click to enter text.](#)

Item 3. Pollutant Analysis (Instructions, Page 113)

Tables 1, 2, 6, and 7 located in Worksheet 2.0 are required. In addition, Table 19 below is required and must be completed for each outfall and submitted with this application. The remaining tables in Worksheet 2.0, are required as applicable.

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): [Click to enter text.](#)
- b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** [Click to enter text.](#)
- d. Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** [Click to enter text.](#)

Table 19 for Outfall No.: [Click to enter text.](#) Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (mg/L)*	Sample 2 (mg/L)*	Sample 3 (mg/L)*	Sample 4 (mg/L)*
Calcium				
Potassium				
Sodium				

*Indicate units if different from mg/L.

ATTACHMENT 1

CORE DATA FORM

(TCEQ 10400)



TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
☒ New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
☐ Renewal (Core Data Form should be submitted with the renewal form)		☐ Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600675284		RN 101237063

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)				
<i>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).</i>				
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)			<i>If new Customer, enter previous Customer below:</i>	
Wright City water supply company				
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)	
0023244301	32027163594			
11. Type of Customer:	☒ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited	
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other	☐ Sole Proprietorship		☐ Other:	
12. Number of Employees		13. Independently Owned and Operated?		
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher		☒ Yes ☐ No		
14. 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:	24065 Lyles Lane			
	City	Troup	State	TX
			ZIP	75956
			ZIP + 4	
16. Country Mailing Information (if outside USA)			17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code	20. Fax Number (if applicable)	

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.)

Wright City WSC 1

23. Street Address of the Regulated Entity:

18523 FM 2089

(No PO Boxes)

City

Overton

State

TX

ZIP

75684

ZIP + 4

24. County

Smith

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

25. Description to**Physical Location:****26. Nearest City**

State

Nearest ZIP Code

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

27. Latitude (N) In Decimal:

32.201555

28. Longitude (W) In Decimal:

-94.993987

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

32

12

5.5974

-94

59

38.3274

29. Primary SIC Code**30. Secondary SIC Code****31. Primary NAICS Code****32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4941

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

Provide water to Wright City

34. Mailing

24065 Lyles Lane

Address:

City

Troup

State

TX

ZIP

75789

ZIP + 4

35. E-Mail Address:

wrightcity@gmail.com

36. Telephone Number**37. Extension or Code****38. Fax Number** (if applicable)

(903) 859-1281

() -

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
				2120027
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Chris Sowell			41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(512) 335-1785		(512) 335-0527	Chris@rangerenv.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:	Wright City WSC	Job Title:	President
Name (In Print):	Charles Seale	Phone:	(903) 859- 1281
Signature:		Date:	4-9-2024

ATTACHMENT 2

PUBLIC INVOLVEMENT PLAN

(TCEQ 20960)



Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

- ☒ New Permit or Registration Application
☐ New Activity - modification, registration, amendment, facility, etc. (see instructions)

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

Section 2. Secondary Screening

- ☐ Requires public notice,
☐ Considered to have significant public interest, **and**
☐ Located within any of the following geographical locations:

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

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

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

This discharge is geographically in a rural area with minimal residents and does not require a PIP.

Section 3. Application Information

Type of Application (check all that apply):

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

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

Water Quality

- ☐ Texas Pollutant Discharge Elimination System (TPDES)
 - ☐ Texas Land Application Permit (TLAP)
 - ☐ State Only Concentrated Animal Feeding Operation (CAFO)
 - ☐ Water Treatment Plant Residuals Disposal Permit
- ☐ Class B Biosolids Land Application Permit
- ☐ Domestic Septage Land Application Registration

Water Rights New Permit

- ☐ New Appropriation of Water
- ☐ New or existing reservoir

Amendment to an Existing Water Right

- ☐ Add a New Appropriation of Water
- ☐ Add a New or Existing Reservoir
- ☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

(City)

(County)

(Census Tract)

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

☐

City

☐

County

☐

Census Tract

- (a) Percent of people over 25 years of age who at least graduated from high school
- (b) Per capita income for population near the specified location
- (c) Percent of minority population and percent of population by race within the specified location
- (d) Percent of Linguistically Isolated Households by language within the specified location
- (e) Languages commonly spoken in area by percentage
- (f) Community and/or Stakeholder Groups
- (g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

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

☐ Yes ☒ No

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

☐ Yes ☐ No

If Yes, please describe.

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

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

☐ Yes ☒ No

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

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

- ☐ Publish in alternative language newspaper
- ☐ Posted on Commissioner's Integrated Database Website
- ☐ Mailed by TCEQ's Office of the Chief Clerk
- ☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

- ☐ TCEQ Regional Office ☐ TCEQ Central Office
- ☐ Public Place (specify)

Section 7. Voluntary Submittal

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

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

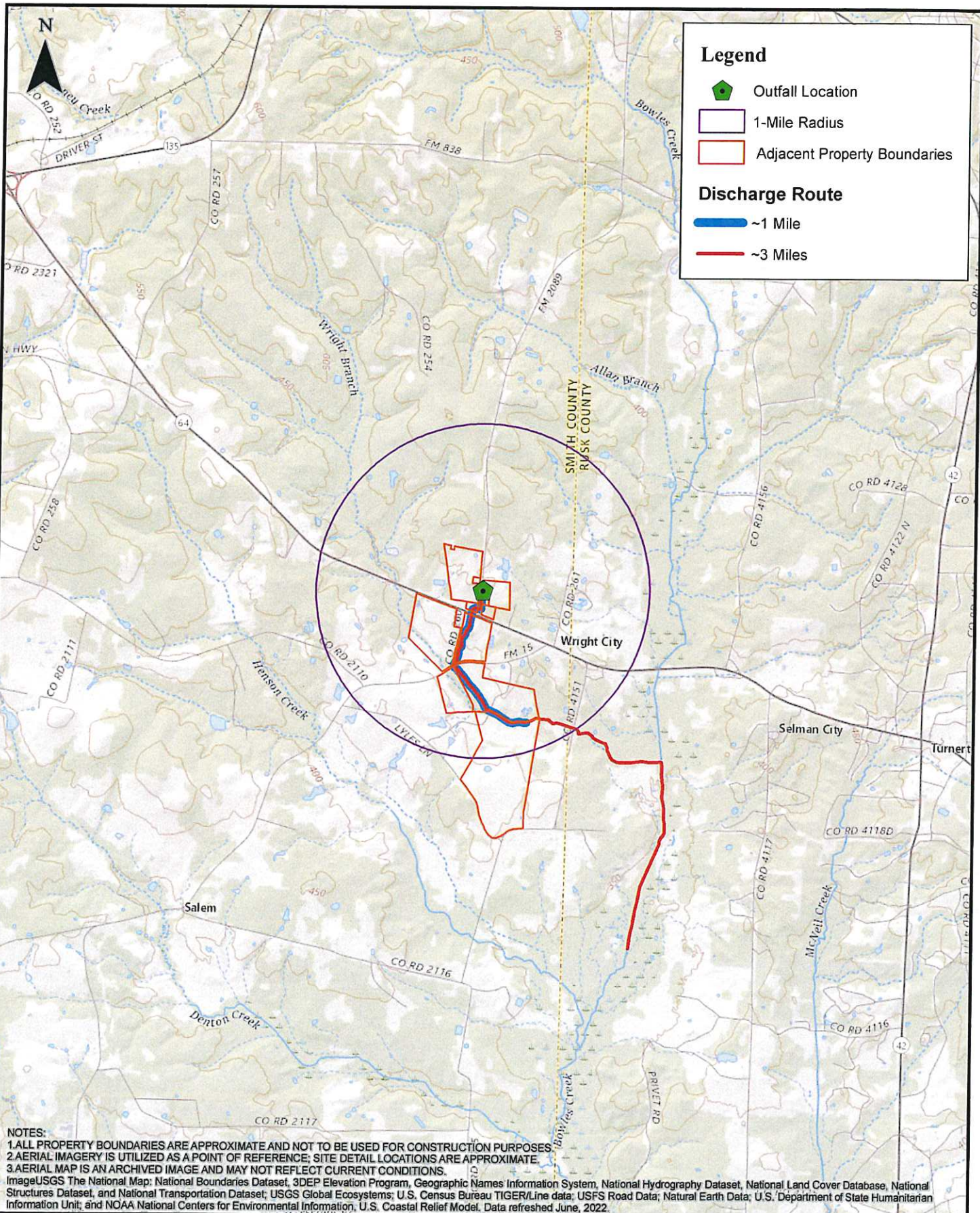
☐ Yes ☒ No

What types of notice will be provided?

- ☐ Publish in alternative language newspaper
- ☐ Posted on Commissioner's Integrated Database Website
- ☐ Mailed by TCEQ's Office of the Chief Clerk
- ☐ Other (specify)

ATTACHMENT 3

USGS TOPOGRAPHIC MAP



ATTACHMENT 4

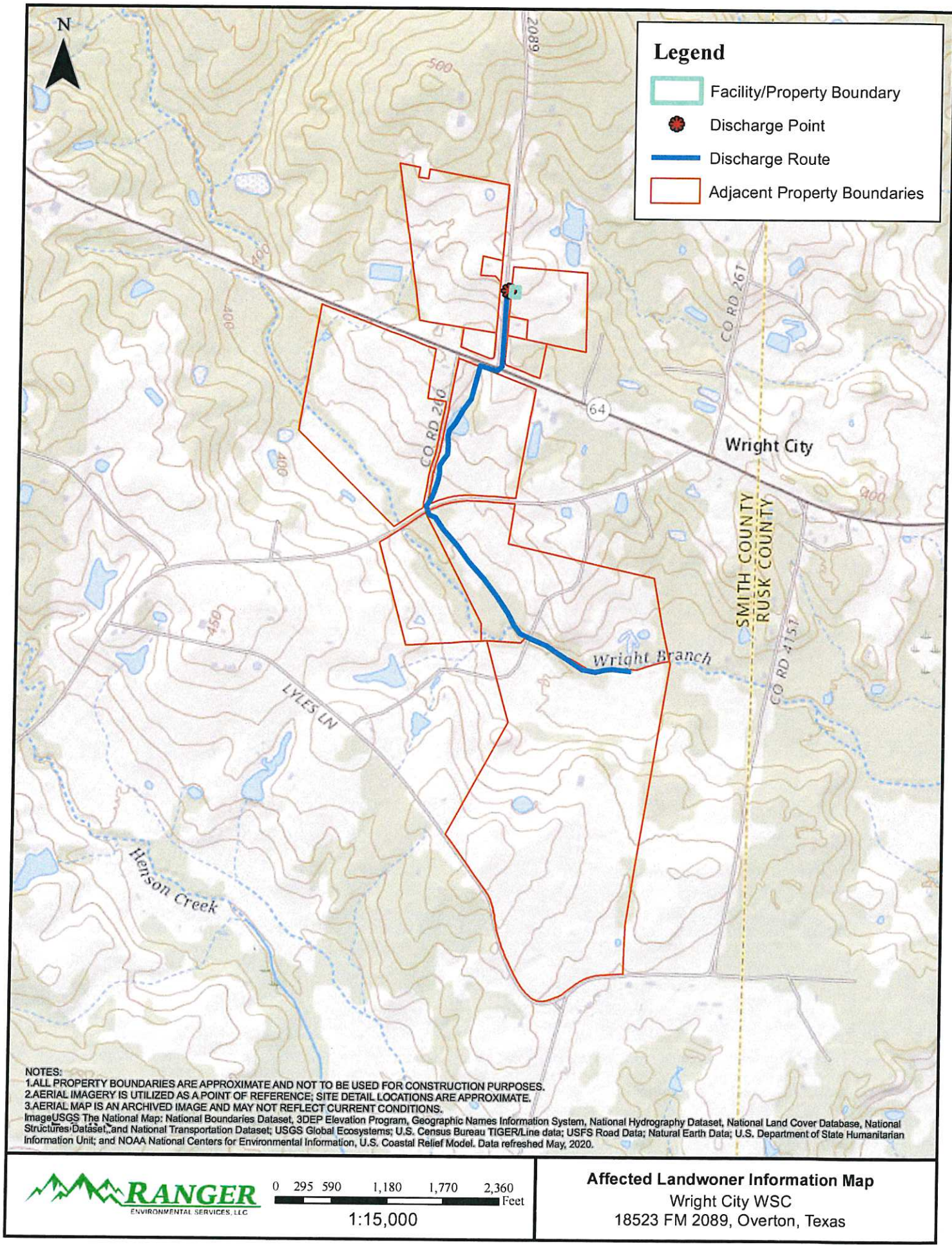
TEXAS DEPARTMENT OF TRANSPORTATION APPROVAL

TX DOT APPROVAL

The Texas Department of Transportation has been notified regarding the discharge being in their right of way and we are currently awaiting their approval.

ATTACHMENT 5

AFFECTED LANDOWNER MAP



Legend

-  Facility/Property Boundary
-  Discharge Point
-  Discharge Route
-  Adjacent Property Boundaries

NOTES:

- 1. ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
- 2. AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
- 3. AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.

ImageUSGS The National Map; National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures/Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

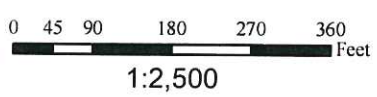
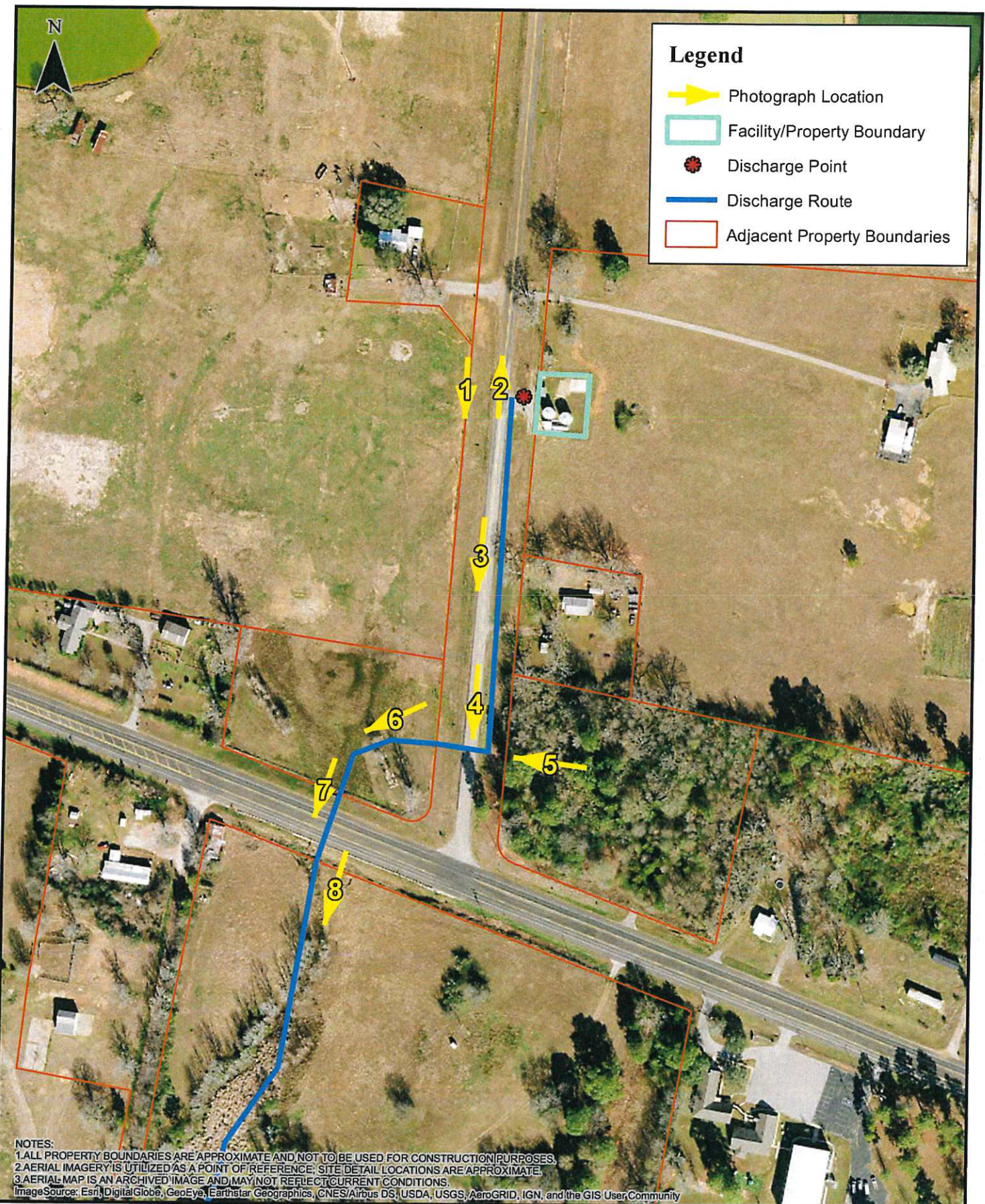


0 295 590 1,180 1,770 2,360 Feet
1:15,000

Affected Landowner Information Map
Wright City WSC
18523 FM 2089, Overton, Texas

ATTACHMENT 6

DISCHARGE PHOTOGRAPHIC LOG



Photographic Discharge Map
Wright City WSC
18523 FM 2089, Overton, Texas

**PHOTOGRAPHIC DOCUMENTATION
WRIGHT CITY WSC #1
DISCHARGE ROUTE PHOTOS**



Photograph 1



Photograph 2

**PHOTOGRAPHIC DOCUMENTATION
WRIGHT CITY WSC #1
DISCHARGE ROUTE PHOTOS**

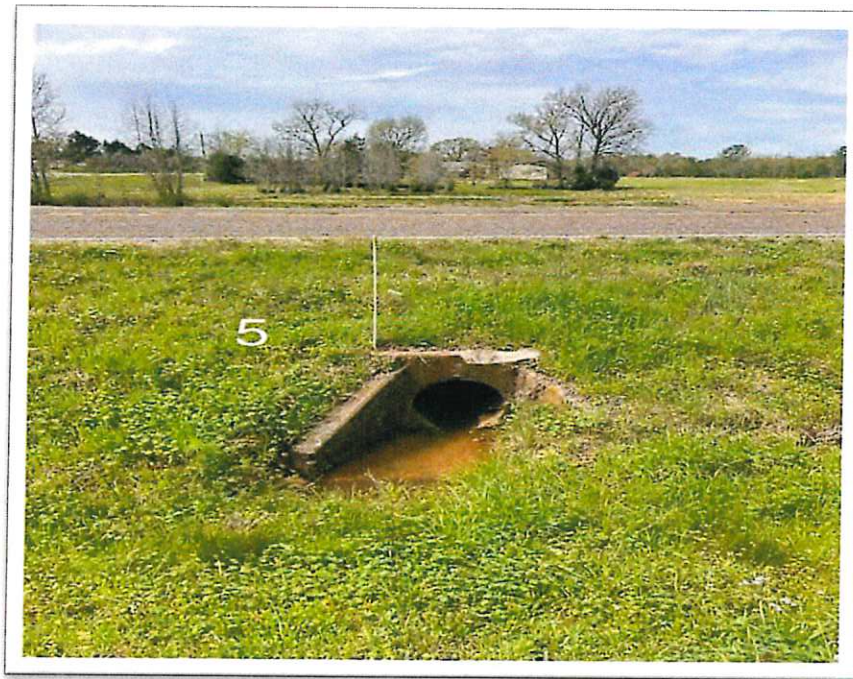


Photograph 3



Photograph 4

**PHOTOGRAPHIC DOCUMENTATION
WRIGHT CITY WSC #1
DISCHARGE ROUTE PHOTOS**



Photograph #5



Photograph #6

**PHOTOGRAPHIC DOCUMENTATION
WRIGHT CITY WSC #1
DISCHARGE ROUTE PHOTOS**



Photograph #7



Photograph #8

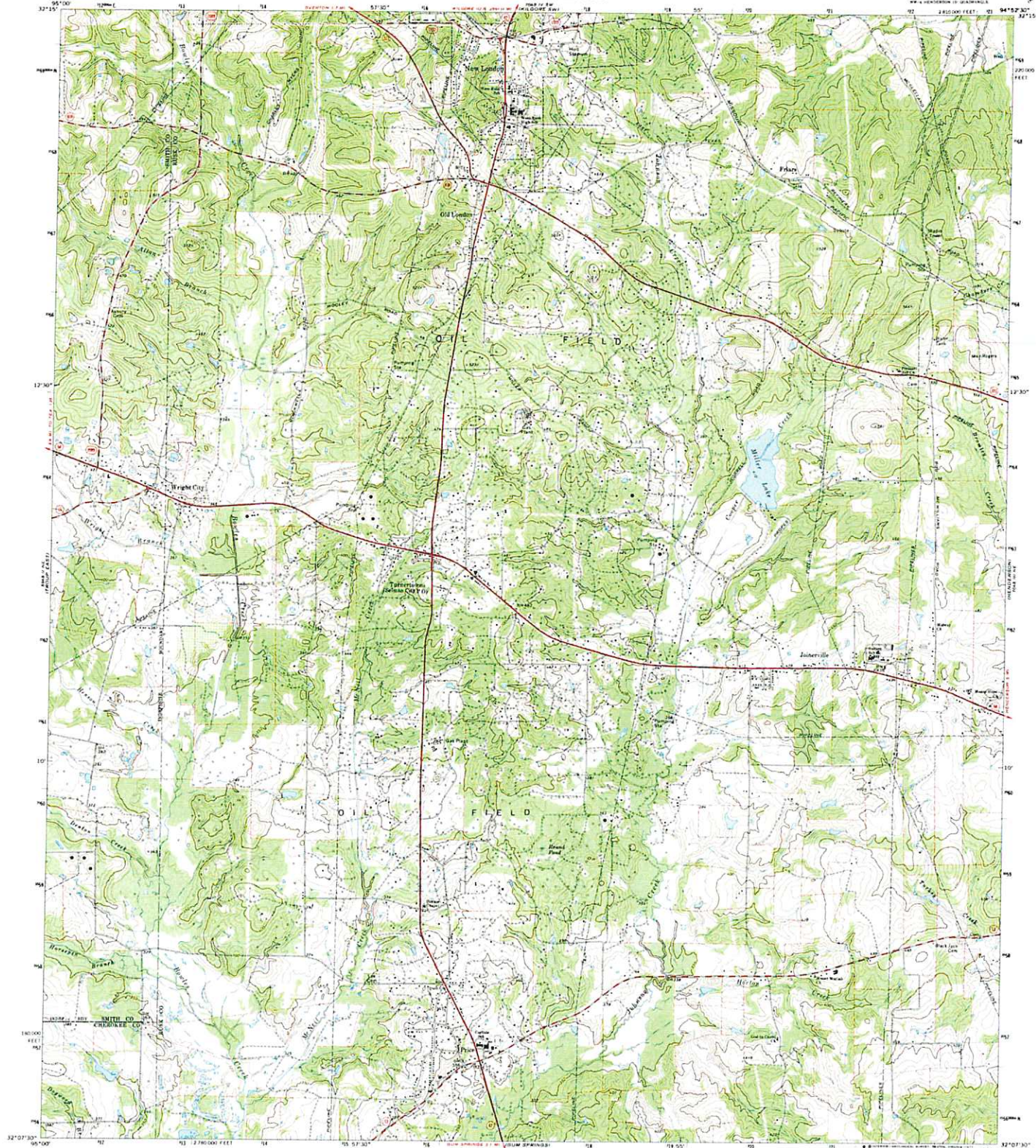
ATTACHMENT 7

TOPOGRAPHIC QUADRANGLE MAP

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF TEXAS
TEXAS WATER DEVELOPMENT BOARD

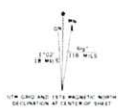
PRICE QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)



Maped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topographic by photogrammetric methods from aerial
photographs taken 1951. Fair checked 1973.
Projection and 10,000-foot grid lines. Texas
coordinate system, north central zone (Lambert conformal conic).
1900 mean Universal Transverse Mercator grid lines,
zone 15, shown in blue. 1927 North American datum.
Faint dashed lines indicate selected fence lines.



SCALE 1:24,000
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



ROAD CLASSIFICATION
Primary highway
hard surface
Secondary highway
hard surface
Light duty road, hard or
improved surface
Unimproved road
Interstate Route
U.S. Route
State Route

USGS
Historical File
Topographic Division

PRICE, TEX.
7.5 MINUTE SERIES (TOPOGRAPHIC)
1973

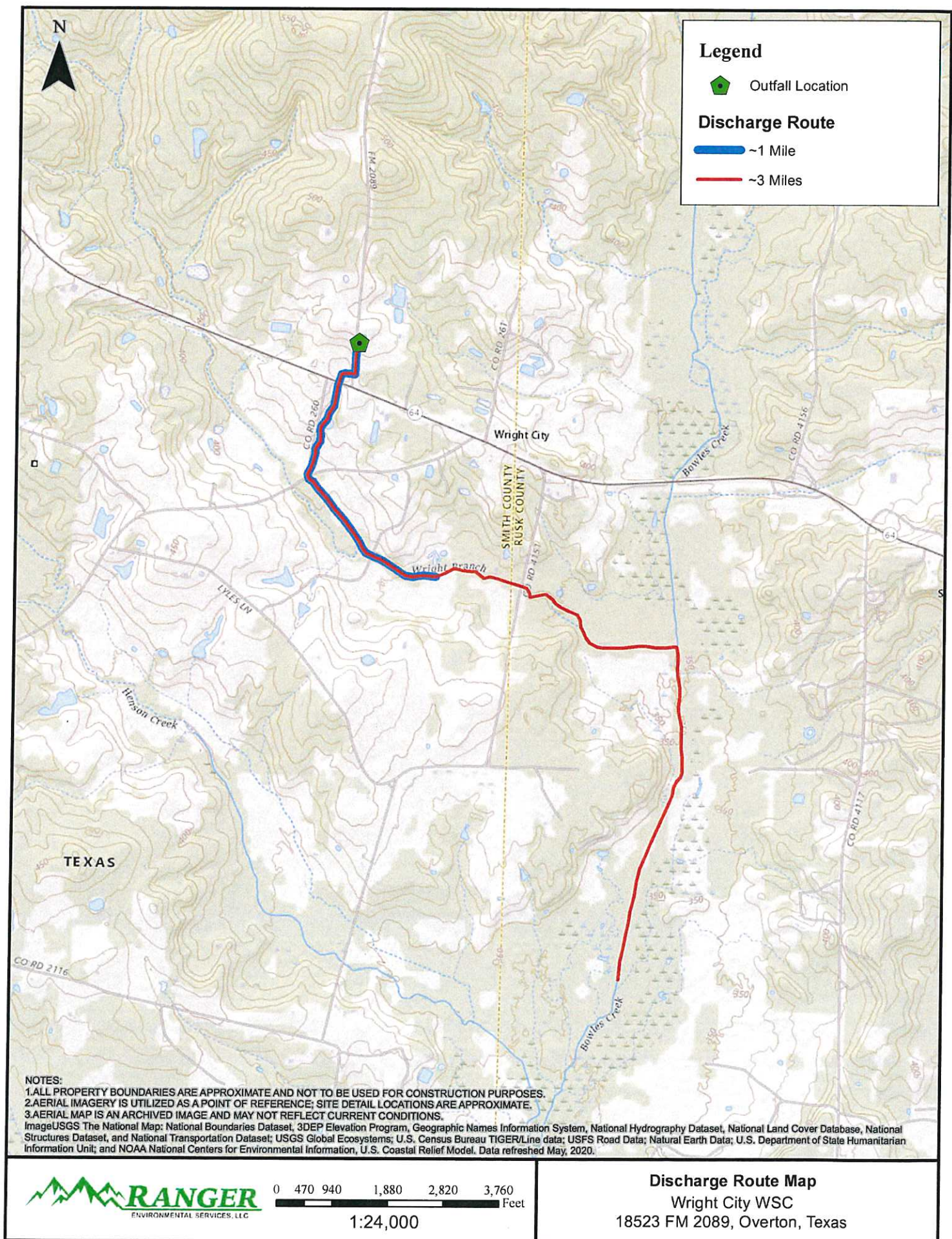
AMG FORM 10 (7-73) SERIES 1482

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

3,350
MAY 23 1977

ATTACHMENT 8

DISCHARGE ROUTE MAP



ATTACHMENT 9

FLOW DIAGRAM

nx

filtration

Projection Report

Date: 8/29/2022

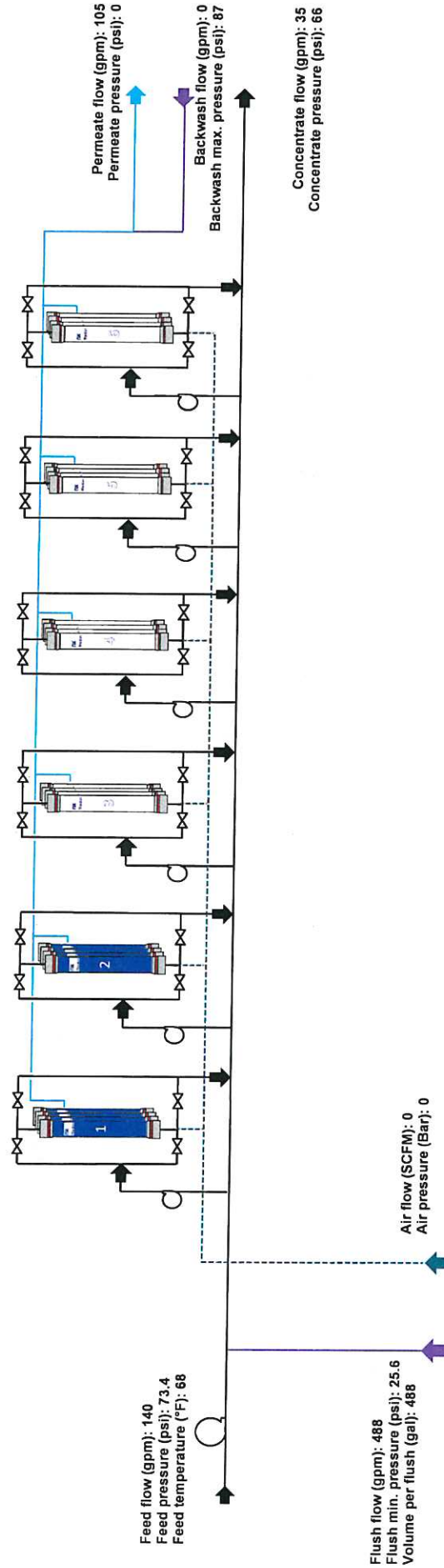
Client: Simply Aquatics

DISCLAIMER:

The use of the projection made available to you by NX Filtration B.V. (hereinafter 'NX') – and the use of all results arising thereof – is/are at the user's own risk and expense. NX makes no guarantees whatsoever regarding the contents of the projection and the results or reports generated by it. Product performance calculations are based on nominal module performance when operated on a feed water of acceptable quality. The results produced by this software are estimates of product performance only. Users of information set forth herein are responsible for determining suitability of the information and may not assume that the results are correct and reliable. No guarantee of product or system performance is expressed or implied whatsoever. NX expressly disclaims any and all liability as to any results obtained or arising from any use of the software or any reliance on such information. No warranty of fitness for any particular purpose, warranty of the merchantability or any other warranty, expressed or implied, is made concerning the software or the information provided herein, or the results arising thereof.

PROJECT DETAILS			
Client:	Simply Aquatics	Feed Water Type:	Other
Project Name:	Wright City	Case:	dNF40T68FR75
Project Number:	-	Select Design:	Feed & Bleed Design Selected
Project Location:			
Designer:	NX NKM		
Date:	8/29/2022		

PROCESS - PROPOSAL



STAGE PARAMETERS - PROPOSAL

Stage	1	2	3	4	5	6	Summary	
Modules per stage	10	10	0	0	0	0	Total	20
Recirculation flow (gpm)	489	489	0	0	0	0	Energy kWh/kgal	1.4
Pressure stage pump (psi)	7.4	7.4	0	0	0	0	Maximum	7.4
Recovery per stage (%)	37.9	59.7	0	0	0	0	Total	75

PROCESS PARAMETERS – PROPOSAL*	
Process Properties	
Module Type	WRC200-dNF40-IRD
Number of Stages	2
Total Number of Modules	20
Membrane Age (years)	3
Average membrane flux (gfd)	14
Feed Settings	
Feed flow (gpm)	140
Feed pressure (psi)	73.4
Feed temperature (°F)	68
pH	7.5
Crossflow (ft/s)	1.6
Concentrate Settings	
Concentrate flow (gpm)	35
Concentrate pressure (psi)	66
Permeate Settings	
Permeate flow (gpm)	105
Permeate pressure (psi)	0
Pass Recovery Required (%)	75
Pass Recovery Achieved (%)	75
Forward Flush + Air Scour Settings	
Flush flow (gpm)	488
Volume per flush (gal)	488
Flush min. pressure (psi)	25.6
Air Scour Flow	0
Air Scour pressure	29
Backwash Settings	
Backwash flow (gpm)	0
Volume per backwash (gal)	0
Backwash max. pressure (psi)	87

*No piping or fitting pressure losses are calculated. The pressures indicated are assumed to be pressures at the receiving module interface or caused within the module based on the process conditions.

ENERGY CONSUMPTION

Inputs			
Pump Efficiency	80	%	
Energy Unit Cost	0.1	\$/kWh	
Results			
Filtration - Common Feed Pump	115	kWh/day	
Filtration - Recirculation Pump Stage 1	46.3	kWh/day	
Filtration - Recirculation Pump Stage 2	46.3	kWh/day	
Filtration - Recirculation Pump Stage 3	0	kWh/day	
Filtration - Recirculation Pump Stage 4	0	kWh/day	
Hydraulic Clean - Flush	0.79	kWh/day	
Hydraulic Clean - Backwash	0	kWh/day	
Total Daily Energy Consumption	208	kWh/day	
Total Specific Energy Consumption	1.4	kWh/kgal	
Total Specific Energy Cost	0.14	\$/kgal	
Total Yearly Energy Consumption	75.9	MWh	

OPERATIONAL RESULTS

Grouping Volume	111	gal
Ave. Time In Filtration	23.6	hrs/day
Ave. Time In HC	0.1	hrs/day
Ave. Time In CEF	0.3	hrs/day
Filtration Availability	98.3	%
Permeate Consumption Per Day	63.6	gpd
Total Feed Per Day	201985	gpd
Net Permeate Per Day	148444	gpd
Total Waste Per Day	3968	gpd
Perm/Feed Recovery	73.5	%

CLEANING SETTINGS

HC & CEF Grouping	max	10	modules	Hydraulic Clean	every	6	hours
Base + NaOCl CEF	every	168	hours	Flush Crossflow Velocity		1.6	ft/s
Base + NaOCl CEF	downtime	30	minutes	Flush Time		60	seconds
Permeate Used For Base + NaOCl CEF		YES	<= select	Air Scour Time		0	seconds
Acid CEF	every	168	hours	Backwash Flux		0	gfd
Acid CEF	downtime	30	minutes	Backwash Time		0	seconds
Permeate Used For Acid CEF		YES	<= select	Drain + Vent Time		0	seconds

CHEMICAL CONSUMPTION						
CEF	NaOH	NaOCl	Citric Acid	H ₂ SO ₄	HCl	
Stock concentration (%)	0	0	0	0	0	
Final concentration (ppm)	0	0	0	0	0	
lb stock/CEF	0	0	0	0	0	
lb chemical/CEF	0	0	0	0	0	
gal stock/day	0	0	0	0	0	
lb stock/day	0	0	0	0	0	
lb chemical/day	0	0	0	0	0	
gal consumption stock/kgal permeate	0	0	0	0	0	
CIP	NaOH	NaOCl	Citric Acid	H ₂ SO ₄	HCl	
Stock concentration (%)	30	12.5	0	0	10	
Final concentration (ppm)	281	150	0	0	410	
lb stock/CIP	2.6	3.3	0	0	11.3	
lb chemical/CIP	0.774	0.413	0	0	1.1	
gal stock/year	12.1	17.1	0	0	67.1	
lb stock/year	134	172	0	0	587	
lb chemical/year	40.2	21.5	0	0	58.7	
gal consumption stock/kgal permeate	< 0.001	< 0.001	0	0	0.001	
Total Yearly chemicals consumption lb/year					54.6	

SCALING INDICES							
	Stage						Perm.
	Feed	I	II	III	IV	V	VI
BaF ₂	0	0	0	0	0	0	0
BaSO ₄	< 0.1	0.1	0.3	0	0	0	0
BaCO ₃	0	0	0	0	0	0	0
CaF ₂	0	0	0	0	0	0	0
CaSO ₄	< 0.1	< 0.1	< 0.1	0	0	0	0
SrF ₂	0	0	0	0	0	0	0
SrSO ₄	0	0	0	0	0	0	0
SrCO ₃	0	0	0	0	0	0	0
Langelier Saturation Index (Saturated at 0)	-0.9	-0.2	0.1	0	0	0	0

Scale prevention protocols not necessary!

WATER QUALITY EXPECTATIONS - GENERAL					
PARAMETER	UNIT	FEED	PERMEATE	CONCENTRATE	REJECTION (%)
Total Dissolved Solids	mg/l	977	737	1695	24.5
Colour	Hazen	50	2.7	192	94.6
Total Organic Carbon	mg/l	0.8	0.1	2.7	88.3
Total Hardness	mg/l CaCO ₃	3.7	2.1	8.6	43.4
Total Alkalinity	mg/l CaCO ₃	398	299	695	24.9

WATER QUALITY EXPECTATIONS - IONS					
PARAMETER	UNIT	FEED	PERMEATE	CONCENTRATE	REJECTION (%)
Ca ²⁺	mg/l	1.1	0.6	2.6	44
Mg ²⁺	mg/l	0.2	0.1	0.5	41.7
Na ⁺	mg/l	300	229	513	23.7
K ⁺	mg/l	1.4	1.1	2.5	25.9
Ba ²⁺	mg/l	< 0.1	< 0.1	0.1	45.9
Cl ⁻	mg/l	189	145	321	23.2
SO ₄ ²⁻	mg/l	4	< 0.1	15.9	99.7
NO ₃ ⁻	mg/l	0.1	< 0.1	0.1	24.9
HCO ₃ ⁻	mg/l	480	361	838	24.9
F ⁻	mg/l	1	0.6	2	35.6

The data given in the tables above are estimated based on provided information and may differ slightly from reality.

Designer's comments:

No feed pH provided, assumed feed pH of 7.5.

ATTACHMENT 10

SITE DRAWING



Legend

-  Outfall Location
-  Facility/Property Boundary
-  Adjacent Property Boundaries
-  500 lbs. Propane Tank
-  Booster Pump Room
-  Generator With Awning
-  Pressure Tank
-  Storage Room/Chlorinators
-  Water Storage Tank



NOTES:

1. ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2. AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE. SITE DETAIL LOCATIONS ARE APPROXIMATE.
3. AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.

ImageSource: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



0 4.75 9.5 19 28.5 38 Feet

1:250

Facility Layout Map

Wright City WSC
18523 FM 2089, Overton, Texas

ATTACHMENT 11

FEMA FLOOD PLAIN MAP



ATTACHMENT 12

LABORATORY REPORTS



REPORT

REPORT DATE	02/15/2024
RECEIVE DATE	01/05/2024
RECEIVE TIME	1110
WORK ORDER	N4A0514

REPORT TO

Simply Aquatics, Inc.
Nancy Fountain
PO Box 849
Kirbyville, TX 75956

REPORT FROM

Eastex Environmental Laboratory
PO Box 631375
Nacogdoches, TX 75963
936-569-8879

PROJECT

Simply Aquatics Nano Waste

Enclosed are the results of analyses for samples received by the laboratory on 01/05/24 11:10, with Lab ID Number N4A0514. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul D. Hughes, Laboratory Director

LABORATORY ANALYTICAL REPORT

Project: Simply Aquatics Nano Waste

Sample Site: Outfall Nano Waste WC#1			<u>Sample Number</u> N4A0514-01			Collector: Caleb Ross			
Sample Type: Grab						Sampled: 01/04/24 1200			
Sample Matrix: Water						Received: 01/05/24 1110			
Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed	Analyst	Method	Notes
Aluminum - Total	3130	2.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Antimony - Total	<2.00	2.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Arsenic, Total	<0.500	0.500	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Barium, Total	42.4	1.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	B
Beryllium, Total	<0.500	0.500	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Boron, Total	116	8.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Bromide	0.882	0.100	mg/L	A	B4A2387	01/15/24 1140	OCR	EPA 300.0	Cs
Cadmium, Total	<1.00	1.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Chromium, Total	2.06	1.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Cobalt, Total	<0.600	0.600	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Copper, Total	3.42	1.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Iron, Total	235	37.0	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Lead, Total	0.663	0.500	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Magnesium, Total	350	17.0	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Manganese, Total	34.6	7.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Molybdenum, Total	<1.00	1.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Nickel, Total	<2.00	2.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Nitrate+Nitrite as N	<0.02	0.02	mg/L	A	B4A3008	01/23/24 1420	TRH	SM 4500 NO3 F	Cs
Selenium, Total	<2.00	2.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Silver, Total	<0.500	0.500	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Sulfide	<0.05	0.05	mg/L	O	B4A2372	01/15/24 1445	NRJ	EPA 376.1	6, Cs
Thallium, Total	<0.500	0.500	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
Tin, Total	<5.00	5.00	ug/L	A	B4A2819	02/15/24 1603	KJH	EPA 200.8	
Titanium, Total	13.5	1.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	
TOC	1.7	1.0	mg/L	A	B4A2877	01/18/24 1112	WLS	SM 5310 C	Cs
Zinc, Total	7.92	5.00	ug/L	A	B4A2819	01/18/24 1211	KJH	EPA 200.8	

Sample Site: Outfall Nano Waste WC#1
Sample Type: Grab
Sample Matrix: Water

Sample Number
N4A0514-01

Collector: Caleb Ross
Sampled: 01/04/24 1200
Received: 01/05/24 1110

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed	Analyst	Method	Notes
Chlorine	<0.1	0.1	mg/L	N	N400176	01/05/24 1400	PDH	SM 4500 Cl F	
DO	10.4		mg/L	N	N400176	01/05/24 1400	PDH	SM 4500 O G	
Alkalinity	340	20.0	mg CaCO3/L	A	N400231	01/09/24 0930	ISR	SM 2320 B	
BOD 5	<2.0	2.0	mg/L	A	N400244	01/05/24 1200	DBR	SM 5210 B	
CBOD 5	<2.0	2.0	mg/L	A	N400243	01/05/24 0740	DBR	SM 5210 B	
Chloride	170	5	mg/L	A	N400550	01/19/24 1540	KP	SM 4500 Cl C	
Chromium, (VI)	<3	3	ug/L	A	N400330	01/11/24 1030	RJD	SM 3500 Cr B	ZZ
Chromium, Trivalent	<3	3	ug/L	N	N400325	01/22/24 1610	RJD	-	
COD	35.8	20.0	mg/L	A	N400248	01/10/24 1020	KP	EPA 410.4	
Color	20	5	Color Units	A	N400178	01/05/24 1120	RJD	SM 2120 B	27
Fluoride	0.33	0.1	mg/L	O	N400214	01/08/24 1042	ISR	SM 4500 F D	
NH3N	0.805	0.1	mg/L	A	N400333	01/11/24 1421	ISR	SM 4500 NH3 - D	
Nitrate - N	<0.3	0.3	mg/L	N	N400119	01/05/24 0900	KP	Hach 10206	
Nitrite as N	0.5825	0.05	mg/L	A	N400594	01/23/24 1400	ISR	SM 4500 NO2 B	3, 4, 42
Oil Grease, HEM	<5.0	5.0	mg/L	A	N400396	01/21/24 1000	DBR	EPA 1664A	
pH Lab	8.63		std unit	A	N400203	01/05/24 1135	KP	SM 4500 H + B	3, 6
Sulfate	44.7	5.00	mg/L	A	N400192	01/08/24 1230	ISR	ASTM D516-11	
TDS	730	10.0	mg/L	A	N400223	01/08/24 1600	RWC	SM 2540 C	
TKN	2.2	2.0	mg/L	A	N400835	02/01/24 1455	RJD	EPA 351.2	S
Total Nitrogen	3.08		mg/L	N	N400323	02/01/24 1515	RJD	-	
Total Organic Nitrogen	1.395	1	mg/L		N400588	02/01/24 1505	RJD	-	
Total Phosphorus as P	0.83	0.05	mg/L	A	N400329	01/11/24 1000	KP	SM 4500 P B.5 E	
TSS	19.3	1.0	mg/L	A	N400131	01/05/24 1740	RWC	SM 2540 D	

Hach 10206 - Quality Control
Eastex Environmental Laboratory - Nacogdoches

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch N400119 - No Prep										
Blank (N400119-BLK1)										
										Prepared & Analyzed: 01/05/24
Nitrate - N	ND	0.3	mg/L							
LCS (N400119-BS1)										
										Prepared & Analyzed: 01/05/24
Nitrate - N	3.97		mg/L	4.26		93.2	90-110			
Matrix Spike (N400119-MS1)										
										Source: N4A0230-01
										Prepared & Analyzed: 01/05/24
Nitrate - N	89.2	0.3	mg/L	50.0	37	104	80-120			
Matrix Spike Dup (N400119-MSD1)										
										Source: N4A0230-01
										Prepared & Analyzed: 01/05/24
Nitrate - N	88.2	0.3	mg/L	50.0	37	102	80-120	1.13	20	
Batch N400131 - No Prep										
Blank (N400131-BLK1)										
										Prepared & Analyzed: 01/05/24
TSS	ND	1.0	mg/L							
Duplicate (N400131-DUP1)										
										Source: N4A0156-01
										Prepared & Analyzed: 01/05/24
TSS	49.0	1.0	mg/L		47.0			4.17	10	
Batch N400178 - No Prep										
Blank (N400178-BLK1)										
										Prepared & Analyzed: 01/05/24
Color	ND	5	Color Units							27
Duplicate (N400178-DUP1)										
										Source: N4A0514-01
										Prepared & Analyzed: 01/05/24
Color	20	5	Color Units		20			0.00	20	27

ASTM D516-11 - Quality Control
Eastex Environmental Laboratory - Nacogdoches

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch N400192 - No Prep										
Blank (N400192-BLK1) Prepared & Analyzed: 01/08/24										
Sulfate	ND	5.00	mg/L							
LCS (N400192-BS1) Prepared & Analyzed: 01/08/24										
Sulfate	95.4		mg/L	100		95.4	80-120			
Matrix Spike (N400192-MS1) Source: N4A0046-01 Prepared & Analyzed: 01/08/24										
Sulfate	128	5.00	mg/L	60.0	61.3	112	80-120			
Matrix Spike Dup (N400192-MSD1) Source: N4A0046-01 Prepared & Analyzed: 01/08/24										
Sulfate	128	5.00	mg/L	60.0	61.3	111	80-120	0.158	20	
Batch N400203 - No Prep										
Duplicate (N400203-DUP1) Source: N4A0514-01 Prepared & Analyzed: 01/05/24										
pH Lab	8.61		std unit		8.63			0.232	20	3, 6
Batch N400214 - No Prep										
Blank (N400214-BLK1) Prepared & Analyzed: 01/08/24										
Fluoride	ND	0.1	mg/L							
LCS (N400214-BS1) Prepared & Analyzed: 01/08/24										
Fluoride	1.09		mg/L	1.00		109	90-110			
MRL Check (N400214-MRL1) Prepared & Analyzed: 01/08/24										
Fluoride	0.13		mg/L	0.100		130	0-200			

SM 4500 F D - Quality Control
Eastex Environmental Laboratory - Nacogdoches

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch N400214 - No Prep										
Matrix Spike (N400214-MS1)				Source: N4A0514-01			Prepared & Analyzed: 01/08/24			
Fluoride	1.34	0.1	mg/L	1.00	0.33	101	80-120			
Matrix Spike Dup (N400214-MSD1)				Source: N4A0514-01			Prepared & Analyzed: 01/08/24			
Fluoride	1.26	0.1	mg/L	1.00	0.33	93.0	80-120	6.15	20	
Batch N400223 - No Prep										
Blank (N400223-BLK1)				Prepared & Analyzed: 01/08/24						
TDS	ND	10.0	mg/L							
LCS (N400223-BS1)				Prepared & Analyzed: 01/08/24						
TDS	46.0		mg/L	50.0		92.0	90-110			
Duplicate (N400223-DUP1)				Source: N4A0176-01			Prepared & Analyzed: 01/08/24			
TDS	420	10.0	mg/L		428			1.89	10	
Batch N400231 - No Prep										
Blank (N400231-BLK1)				Prepared & Analyzed: 01/09/24						
Alkalinity	ND	20.0	mg CaCO3/L							
LCS (N400231-BS1)				Prepared & Analyzed: 01/09/24						
Alkalinity	96.0		mg CaCO3/L	100		96.0	90-110			
Duplicate (N400231-DUP1)				Source: N4A0514-01			Prepared & Analyzed: 01/09/24			
Alkalinity	336	20.0	mg CaCO3/L		340			1.18	20	

SM 5210 B - Quality Control
Eastex Environmental Laboratory - Nacogdoches

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch N400243 - No Prep										
Blank (N400243-BLK1)										
Prepared & Analyzed: 01/05/24										
CBOD 5	ND	2.0	mg/L							
LCS (N400243-BS1)										
Prepared & Analyzed: 01/05/24										
CBOD 5	175		mg/L	198		88.4	84.59-115.4			
Duplicate (N400243-DUP1)										
Source: N4A0207-01										
Prepared & Analyzed: 01/05/24										
CBOD 5	ND	2.0	mg/L		ND				30	
Batch N400244 - No Prep										
Blank (N400244-BLK1)										
Prepared & Analyzed: 01/05/24										
BOD 5	ND	2.0	mg/L							
LCS (N400244-BS1)										
Prepared & Analyzed: 01/05/24										
BOD 5	186		mg/L	198		93.9	84.59-115.4			
Duplicate (N400244-DUP1)										
Source: N4A0261-01										
Prepared & Analyzed: 01/05/24										
BOD 5	2.60	2.0	mg/L		2.80			7.41	30	
Batch N400248 - No Prep										
Blank (N400248-BLK1)										
Prepared & Analyzed: 01/10/24										
COD	ND	20.0	mg/L							
LCS (N400248-BS1)										
Prepared & Analyzed: 01/10/24										
COD	83.1		mg/L	82.4		101	80-120			

EPA 410.4 - Quality Control

Eastex Environmental Laboratory - Nacogdoches

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch N400248 - No Prep										
Matrix Spike (N400248-MS1)			Source: N4A0347-01				Prepared & Analyzed: 01/10/24			
COD	212	20.0	mg/L	200	16.5	97.8	90-110			
Matrix Spike Dup (N400248-MSD1)			Source: N4A0347-01				Prepared & Analyzed: 01/10/24			
COD	214	20.0	mg/L	200	16.5	98.8	90-110	0.985	20	
Batch N400329 - No Prep										
Blank (N400329-BLK1)			Prepared & Analyzed: 01/11/24							
Total Phosphorus as P	ND	0.05	mg/L							
LCS (N400329-BS1)			Prepared & Analyzed: 01/11/24							
Total Phosphorus as P	3.38		mg/L	3.33		102	90-110			
Matrix Spike (N400329-MS1)			Source: N4A0045-01				Prepared & Analyzed: 01/11/24			
Total Phosphorus as P	0.28	0.05	mg/L	0.250	0.06	92.0	80-120			
Matrix Spike Dup (N400329-MSD1)			Source: N4A0045-01				Prepared & Analyzed: 01/11/24			
Total Phosphorus as P	0.30	0.05	mg/L	0.250	0.06	96.4	80-120	3.79	20	
Batch N400330 - No Prep										
Blank (N400330-BLK1)			Prepared & Analyzed: 01/11/24							
Chromium, (VI)	ND	3	ug/L							
LCS (N400330-BS1)			Prepared & Analyzed: 01/11/24							
Chromium, (VI)	493		ug/L	511		96.5	95-105			

SM 3500 Cr B - Quality Control
Eastex Environmental Laboratory - Nacogdoches

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch N400330 - No Prep										
MRL Check (N400330-MRL1)						Prepared & Analyzed: 01/11/24				
Chromium, (VI)	3.19		ug/L	3000		0.106	0-200			
Matrix Spike (N400330-MS1)						Source: N4A0514-01	Prepared & Analyzed: 01/11/24			
Chromium, (VI)	30	3	ug/L	27.4	2.3	101	80-120			
Matrix Spike Dup (N400330-MSD1)						Source: N4A0514-01	Prepared & Analyzed: 01/11/24			
Chromium, (VI)	30	3	ug/L	27.4	2.3	101	80-120	0.00	20	
Batch N400333 - No Prep										
Blank (N400333-BLK1)						Prepared & Analyzed: 01/11/24				
NH3N	ND	0.1	mg/L							
LCS (N400333-BS1)						Prepared & Analyzed: 01/11/24				
NH3N	4.8		mg/L	5.00		96.0	90-120			
Matrix Spike (N400333-MS1)						Source: N4A0322-01	Prepared & Analyzed: 01/11/24			
NH3N	4.62	0.1	mg/L	5.00	ND	92.4	80-120			
Matrix Spike Dup (N400333-MSD1)						Source: N4A0322-01	Prepared & Analyzed: 01/11/24			
NH3N	4.51	0.1	mg/L	5.00	ND	90.2	80-120	2.41	20	
Batch N400396 - No Prep										
Blank (N400396-BLK1)						Prepared & Analyzed: 01/21/24				
Oil Grease, HEM	ND	5.0	mg/L							

EPA 1664A - Quality Control
Eastex Environmental Laboratory - Nacogdoches

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch N400396 - No Prep										
Blank (N400396-BLK2)										
Prepared & Analyzed: 01/21/24										
Oil Grease, HEM	ND	5.0	mg/L							
LCS (N400396-BS1)										
Prepared & Analyzed: 01/21/24										
Oil Grease, HEM	36.9		mg/L	40.0		92.2	78-114			
Matrix Spike (N400396-MS1)										
Source: N4A0342-02										
Prepared & Analyzed: 01/21/24										
Oil Grease, HEM	38.3	5.0	mg/L	40.0	ND	95.8	78-114			
Matrix Spike Dup (N400396-MSD1)										
Source: N4A0342-02										
Prepared & Analyzed: 01/21/24										
Oil Grease, HEM	35.0	5.0	mg/L	40.0	ND	87.5	78-114	9.00	18	
Batch N400550 - No Prep										
Blank (N400550-BLK1)										
Prepared & Analyzed: 01/19/24										
Chloride	ND	5	mg/L							
LCS (N400550-BS1)										
Prepared & Analyzed: 01/19/24										
Chloride	100		mg/L	100		100	90-110			
Matrix Spike (N400550-MS1)										
Source: N4A0046-01										
Prepared & Analyzed: 01/19/24										
Chloride	220	5	mg/L	100	110	110	80-120			
Matrix Spike Dup (N400550-MSD1)										
Source: N4A0046-01										
Prepared & Analyzed: 01/19/24										
Chloride	220	5	mg/L	100	110	110	80-120	0.00	20	
Batch N400594 - No Prep										
Blank (N400594-BLK1)										
Prepared & Analyzed: 01/23/24										
Nitrite as N	ND	0.05	mg/L							

SM 4500 NO2 B - Quality Control
Eastex Environmental Laboratory - Nacogdoches

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch N400594 - No Prep										
LCS (N400594-BS1)					Prepared & Analyzed: 01/23/24					
Nitrite as N	0.31		mg/L	0.300		103	90-110			
Matrix Spike (N400594-MS1)					Source: N4A0773-01		Prepared & Analyzed: 01/23/24			
Nitrite as N	0.263	0.05	mg/L	0.200	0.0501	106	80-120			
Matrix Spike Dup (N400594-MSD1)					Source: N4A0773-01		Prepared & Analyzed: 01/23/24			
Nitrite as N	0.267	0.05	mg/L	0.200	0.0501	108	80-120	1.51	20	

EPA 300.0 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2387 - No Prep										
Blank (B4A2387-BLK1)										
										Prepared & Analyzed: 01/15/24
Bromide	ND	0.100	mg/L							
LCS (B4A2387-BS1)										
										Prepared & Analyzed: 01/15/24
Bromide	0.514		mg/L	0.500		103	90-110			
Matrix Spike (B4A2387-MS1)										
										Source: C4A3602-01
										Prepared & Analyzed: 01/15/24
Bromide	2.66	0.100	mg/L	2.50	0.131	101	80-120			
Matrix Spike Dup (B4A2387-MSD1)										
										Source: C4A3602-01
										Prepared & Analyzed: 01/15/24
Bromide	2.64	0.100	mg/L	2.50	0.131	100	80-120	0.811	20	
Batch B4A2819 - EPA 200.8										
Blank (B4A2819-BLK1)										
										Prepared: 01/17/24 Analyzed: 01/18/24
Aluminum - Total	ND	2.50	ug/L							
Antimony - Total	ND	5.00	ug/L							
Arsenic, Total	ND	0.500	ug/L							
Barium, Total	ND	3.00	ug/L							
Beryllium, Total	ND	0.500	ug/L							B
Boron, Total	ND	8.00	ug/L							
Cadmium, Total	ND	1.00	ug/L							
Chromium, Total	ND	3.00	ug/L							
Cobalt, Total	ND	1.00	ug/L							
Copper, Total	ND	2.00	ug/L							
Iron, Total	ND	100	ug/L							
Lead, Total	ND	0.500	ug/L							
Magnesium, Total	ND	100	ug/L							
Manganese, Total	ND	7.00	ug/L							
Molybdenum, Total	ND	1.00	ug/L							
Nickel, Total	ND	2.00	ug/L							
Selenium, Total	ND	5.00	ug/L							
Silver, Total	ND	0.500	ug/L							
Thallium, Total	ND	0.500	ug/L							
Tin, Total	ND	1.00	ug/L							
Titanium, Total	ND	1.00	ug/L							
Zinc, Total	ND	5.00	ug/L							

EPA 200.8 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2819 - EPA 200.8										
LCS (B4A2819-BS1)										
						Prepared: 01/17/24 Analyzed: 01/18/24				
Aluminum - Total	108	2.50	ug/L	100		108	85-115			
Antimony - Total	101	5.00	ug/L	100		101	85-115			
Arsenic, Total	101	0.500	ug/L	100		101	85-115			
Barium, Total	99.1	3.00	ug/L	100		99.1	85-115			B
Beryllium, Total	107	0.500	ug/L	100		107	85-115			
Boron, Total	113	8.00	ug/L	100		113	85-115			
Cadmium, Total	100	1.00	ug/L	100		100	85-115			
Chromium, Total	101	3.00	ug/L	100		101	85-115			
Cobalt, Total	102	1.00	ug/L	100		102	85-115			
Copper, Total	103	2.00	ug/L	100		103	85-115			
Iron, Total	10100	100	ug/L	10000		101	85-115			
Lead, Total	99.5	0.500	ug/L	100		99.5	85-115			
Magnesium, Total	10200	100	ug/L	10000		102	85-115			
Manganese, Total	99.8	7.00	ug/L	100		99.8	85-115			
Molybdenum, Total	101	1.00	ug/L	100		101	85-115			
Nickel, Total	101	2.00	ug/L	100		101	85-115			
Selenium, Total	96.4	5.00	ug/L	100		96.4	85-115			
Silver, Total	104	0.500	ug/L	100		104	85-115			
Thallium, Total	103	0.500	ug/L	100		103	85-115			
Tin, Total	97.1	1.00	ug/L	100		97.1	85-115			
Titanium, Total	102	1.00	ug/L	100		102	85-115			
Zinc, Total	99.2	5.00	ug/L	100		99.2	85-115			
Matrix Spike (B4A2819-MS1)										
				Source: C4A3263-01			Prepared: 01/17/24 Analyzed: 01/18/24			
Aluminum - Total	166	2.50	ug/L	100	60.7	105	70-130			
Antimony - Total	107	5.00	ug/L	100	8.56	98.2	70-130			
Arsenic, Total	102	0.500	ug/L	100	1.17	100	70-130			
Barium, Total	151	3.00	ug/L	100	53.0	97.7	70-130			B
Beryllium, Total	98.1	0.500	ug/L	100	ND	98.1	70-130			
Boron, Total	468	8.00	ug/L	100	361	107	70-130			
Cadmium, Total	95.5	1.00	ug/L	100	ND	95.5	70-130			
Chromium, Total	97.7	3.00	ug/L	100	1.12	96.6	70-130			
Cobalt, Total	95.4	1.00	ug/L	100	0.399	95.0	70-130			
Copper, Total	94.2	2.00	ug/L	100	0.933	93.3	70-130			
Iron, Total	9790	100	ug/L	10000	ND	97.9	70-130			
Lead, Total	98.2	0.500	ug/L	100	0.0690	98.2	70-130			
Magnesium, Total	18200	100	ug/L	10000	8570	96.1	70-130			
Manganese, Total	107	7.00	ug/L	100	7.85	99.4	70-130			
Molybdenum, Total	104	1.00	ug/L	100	5.65	98.6	70-130			
Nickel, Total	93.8	2.00	ug/L	100	ND	93.8	70-130			
Selenium, Total	102	5.00	ug/L	100	ND	102	70-130			
Silver, Total	92.4	0.500	ug/L	100	ND	92.4	70-130			
Thallium, Total	101	0.500	ug/L	100	0.0400	101	70-130			
Tin, Total	112	1.00	ug/L	100	18.9	93.3	70-130			
Titanium, Total	102	1.00	ug/L	100	0.626	101	70-130			
Zinc, Total	175	5.00	ug/L	100	77.3	97.8	70-130			

EPA 200.8 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2819 - EPA 200.8										
Matrix Spike Dup (B4A2819-MSD1)			Source: C4A3263-01			Prepared: 01/17/24 Analyzed: 01/18/24				
Aluminum - Total	161	2.50	ug/L	100	60.7	100	70-130	3.29	20	
Antimony - Total	106	5.00	ug/L	100	8.56	97.8	70-130	0.374	20	
Arsenic, Total	102	0.500	ug/L	100	1.17	101	70-130	0.247	20	
Barium, Total	150	3.00	ug/L	100	53.0	96.8	70-130	0.573	20	B
Beryllium, Total	99.9	0.500	ug/L	100	ND	99.9	70-130	1.89	20	
Boron, Total	463	8.00	ug/L	100	361	102	70-130	1.12	20	
Cadmium, Total	94.9	1.00	ug/L	100	ND	94.9	70-130	0.569	20	
Chromium, Total	98.2	3.00	ug/L	100	1.12	97.1	70-130	0.486	20	
Cobalt, Total	96.7	1.00	ug/L	100	0.399	96.3	70-130	1.34	20	
Copper, Total	94.6	2.00	ug/L	100	0.933	93.6	70-130	0.399	20	
Iron, Total	9770	100	ug/L	10000	ND	97.7	70-130	0.178	20	
Lead, Total	99.0	0.500	ug/L	100	0.0690	99.0	70-130	0.830	20	
Magnesium, Total	18500	100	ug/L	10000	8570	99.6	70-130	1.89	20	
Manganese, Total	107	7.00	ug/L	100	7.85	98.8	70-130	0.507	20	
Molybdenum, Total	105	1.00	ug/L	100	5.65	98.9	70-130	0.339	20	
Nickel, Total	93.8	2.00	ug/L	100	ND	93.8	70-130	0.0352	20	
Selenium, Total	104	5.00	ug/L	100	ND	104	70-130	2.76	20	
Silver, Total	92.3	0.500	ug/L	100	ND	92.3	70-130	0.107	20	
Thallium, Total	102	0.500	ug/L	100	0.0400	102	70-130	0.853	20	
Tin, Total	112	1.00	ug/L	100	18.9	92.6	70-130	0.603	20	
Titanium, Total	104	1.00	ug/L	100	0.626	104	70-130	2.60	20	
Zinc, Total	177	5.00	ug/L	100	77.3	99.2	70-130	0.783	20	
Batch B4A2877 - No Prep										
Blank (B4A2877-BLK1)			Prepared & Analyzed: 01/18/24							
TOC	ND	1.0	mg/L							

SM 5310 C - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2877 - No Prep										
LCS (B4A2877-BS1)										
						Prepared & Analyzed: 01/18/24				
TOC	10.4		mg/L	10.0		104	90-110			
LCS Dup (B4A2877-BSD1)										
						Prepared & Analyzed: 01/18/24				
TOC	10.6		mg/L	10.0		106	90-110	1.62	20	
Matrix Spike (B4A2877-MS1)										
				Source: C4A1062-01			Prepared & Analyzed: 01/18/24			
TOC	31.2	1.0	mg/L	10.0	19.5	117	80-120			
Batch B4A3008 - No Prep										
Blank (B4A3008-BLK1)										
						Prepared & Analyzed: 01/23/24				
Nitrate+Nitrite as N	ND	0.02	mg/L							
LCS (B4A3008-BS1)										
						Prepared & Analyzed: 01/23/24				
Nitrate+Nitrite as N	0.926		mg/L	1.00		92.6	90-110			
Matrix Spike (B4A3008-MS1)										
				Source: C4A3012-01			Prepared & Analyzed: 01/23/24			
Nitrate+Nitrite as N	5.66	0.02	mg/L	1.00	3.70	196	80-120			23
Matrix Spike Dup (B4A3008-MSD1)										
				Source: C4A3012-01			Prepared & Analyzed: 01/23/24			
Nitrate+Nitrite as N	5.09	0.02	mg/L	1.00	3.70	139	80-120	10.7	20	

Notes and Definitions

ZZ	Buffer added upon receipt to extend hold time to 28 days as per method.
S	Analysis performed by subcontract lab. Report available upon request.
Cs	Analyses performed at Coldspring Laboratory.
B	Analyte detected in Method Blank.
6	Sample not received within required holding time.
42	Laboratory Error
4	Not cooled to 0-6 degrees Celsius.
3	Sample analysis performed out of holding time.
27	Sample was pre-filtered as required by the method.
23	Spike recovery outside of acceptance limits due to matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

**All Metals Analyses performed at Coldspring Laboratory, unless otherwise indicated.*

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Daniel
Eastex Environmental Laboratory Inc.
1119 South University Drive (75961)
PO BOX 631375
Nacogdoches, Texas 75963-1375

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JOB DESCRIPTION

N4A0514
010924-G

JOB NUMBER

860-65281-1

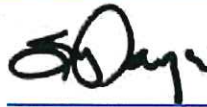
Eurofins Houston

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

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Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65281-1
SDG: 010924-G

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
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.

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

Case Narrative

Client: Eastex Environmental Laboratory Inc.
Project: N4A0514

Job ID: 860-65281-1

Job ID: 860-65281-1

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Job Narrative 860-65281-1

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 1/10/2024 10:17 AM. 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 4.2°C

Receipt Exceptions

The following sample was received outside of holding time: N4A0514-01 (860-65281-1). MBAS received out of hold

Metals

Method 1631E: The following sample was received with labels already on the vials: N4A0514-01 (860-65281-1)

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

General Chemistry

Method 5540C: The following sample was received outside of holding time: N4A0514-01 (860-65281-1).

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

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Job ID: 860-65281-1
SDG: 010924-G

Lab Sample ID: 860-65281-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Mercury	0.96		0.50		ng/L	1	1631E	Total/NA

1/18/2024

Client Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65281-1
SDG: 010924-G

Client Sample ID: N4A0514-01

Lab Sample ID: 860-65281-1

Date Collected: 01/04/24 12:00

Matrix: Water

Date Received: 01/10/24 10:17

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.96		0.50		ng/L		01/16/24 15:11	01/17/24 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	ND		0.0050		mg/L		01/15/24 17:41	01/16/24 13:16	1
Methylene Blue Active Substances (SM 5540C)	ND	H H3	0.10		mg/L			01/10/24 10:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfite (SM 4500 SO3 B)	ND	HF	5.0		mg/L			01/18/24 10:22	1



QC Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65281-1
SDG: 010924-G

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-657878/3-A
Matrix: Water
Analysis Batch: 657941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50		ng/L		01/16/24 16:00	01/17/24 09:49	1

Lab Sample ID: LCS 400-657878/4-A
Matrix: Water
Analysis Batch: 657941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.67		ng/L		93	79 - 121

Lab Sample ID: LCSD 400-657878/5-A
Matrix: Water
Analysis Batch: 657941

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 657878

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.75		ng/L		95	79 - 121	2	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 860-140722/31-A
Matrix: Water
Analysis Batch: 140791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0050		mg/L		01/15/24 17:41	01/16/24 13:42	1

Lab Sample ID: MB 860-140722/4-A
Matrix: Water
Analysis Batch: 140791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0050		mg/L		01/15/24 17:41	01/16/24 12:59	1

Lab Sample ID: LCS 860-140722/5-A
Matrix: Water
Analysis Batch: 140791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0953		mg/L		95	90 - 110

Lab Sample ID: LCSD 860-140722/33-A
Matrix: Water
Analysis Batch: 140791

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.100	0.0953		mg/L		95	90 - 110	4	20

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QC Sample Results

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65281-1
SDG: 010924-G

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LLCS 860-140722/6-A
Matrix: Water
Analysis Batch: 140791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140722

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.00500	0.00350	J	mg/L		70	50 - 150

Method: SM 4500 SO3 B - Sulfite

Lab Sample ID: MB 860-141098/1
Matrix: Water
Analysis Batch: 141098

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfite	ND		5.0		mg/L			01/18/24 10:22	1

Lab Sample ID: LCS 860-141098/2
Matrix: Water
Analysis Batch: 141098

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfite	10.0	10.0		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-141098/3
Matrix: Water
Analysis Batch: 141098

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
Sulfite	10.0	10.0		mg/L		100	80 - 120	0	20

Lab Sample ID: 860-65281-1 DU
Matrix: Water
Analysis Batch: 141098

Client Sample ID: N4A0514-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfite	ND	HF	ND		mg/L		NC	20

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MB 860-140279/3
Matrix: Water
Analysis Batch: 140279

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Blue Active Substances	ND		0.10		mg/L			01/10/24 10:27	1

Lab Sample ID: LCS 860-140279/4
Matrix: Water
Analysis Batch: 140279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Blue Active Substances	1.00	0.966		mg/L		97	90 - 110

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QC Association Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65281-1
SDG: 010924-G

Metals

Prep Batch: 657878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-65281-1	N4A0514-01	Total/NA	Water	1631E	
MB 400-657878/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-657878/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-657878/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 657941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-65281-1	N4A0514-01	Total/NA	Water	1631E	657878
MB 400-657878/3-A	Method Blank	Total/NA	Water	1631E	657878
LCS 400-657878/4-A	Lab Control Sample	Total/NA	Water	1631E	657878
LCSD 400-657878/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	657878

General Chemistry

Analysis Batch: 140279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-65281-1	N4A0514-01	Total/NA	Water	SM 5540C	
MB 860-140279/3	Method Blank	Total/NA	Water	SM 5540C	
LCS 860-140279/4	Lab Control Sample	Total/NA	Water	SM 5540C	

Prep Batch: 140722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-65281-1	N4A0514-01	Total/NA	Water	Distill/CN	
MB 860-140722/31-A	Method Blank	Total/NA	Water	Distill/CN	
MB 860-140722/4-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 860-140722/5-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCSD 860-140722/33-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
LLCS 860-140722/6-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 140791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-65281-1	N4A0514-01	Total/NA	Water	335.4	140722
MB 860-140722/31-A	Method Blank	Total/NA	Water	335.4	140722
MB 860-140722/4-A	Method Blank	Total/NA	Water	335.4	140722
LCS 860-140722/5-A	Lab Control Sample	Total/NA	Water	335.4	140722
LCSD 860-140722/33-A	Lab Control Sample Dup	Total/NA	Water	335.4	140722
LLCS 860-140722/6-A	Lab Control Sample	Total/NA	Water	335.4	140722

Analysis Batch: 141098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-65281-1	N4A0514-01	Total/NA	Water	SM 4500 SO3 B	
MB 860-141098/1	Method Blank	Total/NA	Water	SM 4500 SO3 B	
LCS 860-141098/2	Lab Control Sample	Total/NA	Water	SM 4500 SO3 B	
LCSD 860-141098/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO3 B	
860-65281-1 DU	N4A0514-01	Total/NA	Water	SM 4500 SO3 B	

Lab Chronicle

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65281-1
SDG: 010924-G

Client Sample ID: N4A0514-01

Lab Sample ID: 860-65281-1

Date Collected: 01/04/24 12:00

Matrix: Water

Date Received: 01/10/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	657878	01/16/24 15:11	VLC	EET PEN
							Completed: 01/17/24 09:20 *			
Total/NA	Analysis	1631E		1			657941	01/17/24 11:54	VLC	EET PEN
Total/NA	Prep	Distill/CN			6 mL	6 mL	140722	01/15/24 17:41	LD	EET HOU
Total/NA	Analysis	335.4		1			140791	01/16/24 13:16	LD	EET HOU
Total/NA	Analysis	SM 4500 SO3 B		1	50 mL	50 mL	141098	01/18/24 10:22	SCI	EET HOU
Total/NA	Analysis	SM 5540C		1	100 mL	100 mL	140279	01/10/24 10:56	JM	EET HOU

* This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65281-1
SDG: 010924-G

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

Method Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65281-1
SDG: 010924-G

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
335.4	Cyanide, Total	EPA	EET HOU
SM 4500 SO3 B	Sulfite	SM	EET HOU
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EET HOU
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
Distill/CN	Distillation, Cyanide	None	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65281-1
SxG:8n m9c4LG

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-65281-1	N4A0514-01	Water	01/04/24 12:00	01/10/24 10:17

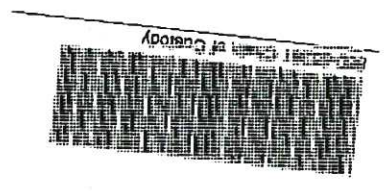


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Released By	Date & Time	Received By	Date & Time
Released By	Date & Time	Received By	Date & Time
Released By	Date & Time	Received By	Date & Time

COMMENTS:

Temp 42
C/F 10.0
IR ID: HOU-369
Corrected Temp 42



Analysis to be Performed	Due	Sample ID	Matrix	Sample Date
Cyanide, Total	01/18/2024			
Mercury LL	01/18/2024			
Sulfite	01/18/2024			
Surfactants (MBAS)	01/18/2024			
Containers Supplied				
P 125, Iced, H2SO4 (J)				
P 1000, Iced, HNO3 (L)				
P 1000, Iced, NaOH (M)				
P 1000, Iced (W)				
P 500, Iced (X)				

Sample ID N4A0514-01[none] Water Sampled, 01/04/2024 12.00
Sample Site Outfall Nano Waste WC#1

Work Order: N4A0514

PO: 010924-G

Sending Laboratory:
Eastex Environmental Laboratory - Nacogdoches
1119 South University Drive
Nacogdoches, TX 75961
Phone 936-569-8879
Fax 936-569-8951
Project Manager Paul Hughes

Subcontracted Laboratory:
Eurofins Xenco LLC
4147 Greenbriar Dr.
Stafford, TX 77477
Phone 713-690-4444
Fax 713-690-5646

SUBCONTRACT ORDER

EASTEX
ENVIRONMENTAL LABS INC

P O Box 631375 Nacogdoches Tx 75963
Website eastexlabs.com
Email, eelnac@sbclab.net
Tel. 936 569 8879

[illegible]

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-65281-1

SDG Number: 010924-G

Login Number: 65281

List Number: 1

List Source: Eurofins Houston

Creator: Torrez, Lisandra

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
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)	False	Received out of hold MBAS
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-65281-1

SDG Number: 010924-G

Login Number: 65281

List Number: 2

Creator: Pardonner, Brett

List Source: Eurofins Pensacola

List Creation: 01/13/24 11:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
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	0.2°C IR8
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Daniel
Eastex Environmental Laboratory Inc.
1119 South University Drive (75961)
PO BOX 631375
Nacogdoches, Texas 75963-1375

Generated 1/27/2024 11:25:22 PM

JOB DESCRIPTION

N4A0514

JOB NUMBER

860-65828-1

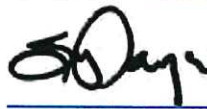
Eurofins Houston

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

Generated
1/27/2024 11:25:22 PM

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Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.
P8 jb2/SLb:dN4Aaxr 4

Job ID: 860-65828-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Case Narrative

Client: Eastex Environmental Laboratory Inc.
Project: N4A0514

Job ID: 860-65828-1

Job ID: 860-65828-1

Eurofins Houston

Job Narrative 860-65828-1

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 1/18/2024 11:07 AM. 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 0.8°C

Receipt Exceptions

Only received TKN bottle. Per client, only TKN is needed

General Chemistry

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

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Eurofins Houston

Detection Summary

Client: Eastex Environmental Laboratory Inc.
P6 jbz/S1b:4N4Aaxr 4

Job ID: 860-65828-1

Client Sample ID: N4A0514-01

Lab Sample ID: 860-65828-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	2.2		2.0		mg/L	1		351.2	Total/NA

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This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Eastex Environmental Laboratory Inc.
P6 jb2/SLb:dN4Aaxr 4

Job ID: 860-65828-1

Client Sample ID: N4A0514-01

Lab Sample ID: 860-65828-1

Date Collected: 01/04/24 12:00

Matrix: Water

Date Received: 01/18/24 11:07

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl (EPA 351.2)	2.2		2.0		mg/L		01/25/24 10:03	01/26/24 16:42	1

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QC Sample Results

Client: Eastex Environmental Laboratory Inc.
P6 j62/Slb:dN4Aaxr 4

Job ID: 860-65828-1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 860-142129/4-A
Matrix: Water
Analysis Batch: 142453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	ND		0.20		mg/L		01/25/24 10:03	01/26/24 16:38	1

Lab Sample ID: LCS 860-142129/6-A
Matrix: Water
Analysis Batch: 142453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	2.00	1.84		mg/L		92	90 - 110

Lab Sample ID: LCSD 860-142129/7-A
Matrix: Water
Analysis Batch: 142453

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142129

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	2.00	1.81		mg/L		91	90 - 110	2	20

Lab Sample ID: LLCS 860-142129/5-A
Matrix: Water
Analysis Batch: 142453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142129

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	0.200	0.194	J	mg/L		97	50 - 150

QC Association Summary

Client: Eastex Environmental Laboratory Inc.
P6 j62/SILb:dN4Aaxr 4

Job ID: 860-65828-1

General Chemistry

Prep Batch: 142129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-65828-1	N4A0514-01	Total/NA	Water	351.2	
MB 860-142129/4-A	Method Blank	Total/NA	Water	351.2	
LCS 860-142129/6-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 860-142129/7-A	Lab Control Sample Dup	Total/NA	Water	351.2	
LLCS 860-142129/5-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 142453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-65828-1	N4A0514-01	Total/NA	Water	351.2	142129
MB 860-142129/4-A	Method Blank	Total/NA	Water	351.2	142129
LCS 860-142129/6-A	Lab Control Sample	Total/NA	Water	351.2	142129
LCSD 860-142129/7-A	Lab Control Sample Dup	Total/NA	Water	351.2	142129
LLCS 860-142129/5-A	Lab Control Sample	Total/NA	Water	351.2	142129

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Lab Chronicle

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65828-1

Client Sample ID: N4A0514-01

Lab Sample ID: 860-65828-1

Date Collected: 01/04/24 12:00

Matrix: Water

Date Received: 01/18/24 11:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			2 mL	20 mL	142129	01/25/24 10:03	LD	EET HOU
Total/NA	Analysis	351.2		1			142453	01/26/24 16:42	AA	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65828-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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Method Summary

Client: Eastex Environmental Laboratory Inc.
P6 j62/SLb:dN4Aaxr 4

Job ID: 860-65828-1

Method	Method Description	Protocol	Laboratory
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Sample Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: N4A0514

Job ID: 860-65828-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-65828-1	N4A0514-01	Water	01/04/24 12:00	01/18/24 11:07





P O Box 631375 Nacogdoches Tx 75963
Website eastexlabs.com
Email. eelnac@sbcglobal.net
Tel 936 569 8879



SUBCONTRACT ORDER

Sending Laboratory:

Eastex Environmental Laboratory - Nacogdoches
1119 South University Drive
Nacogdoches, TX 75961
Phone 936-569-8879
Fax 936-569-8951

Project Manager: Paul Hughes

Subcontracted Laboratory:

Eurofins Xenco LLC
4147 Greenbriar Dr.
Stafford, TX 77477
Phone. 713-690-4444
Fax 713-690-5646

Work Order: N4A0514

PO: 011624-L

Analysis to be Performed	Due	Sample ID	Matrix	Sample Date
		Sample ID: N4A0514-01[none]	Water	Sampled 01/04/2024 12.00
		Sample Site	Outfall Nano Waste WC#1	
Cyanide, Total	STAT			
Mercury LL	01/18/2024			
Sulfite	01/18/2024			
Surfactants (MBAS)	01/18/2024			
TKN as N	01/18/2024			
Containers Supplied				
P 125, Iced, H2SO4 (J)	P 1000, Iced, HNO3 (L)	P 1000, Iced, NaOH (M)	P 250, Iced (Q)	P 1000, Iced (W)
P 500, Iced (X)				



860-65828 Chain of Custody

Temp: 0.8 IR ID: HOU-369
C/F: 0.0
Corrected Temp: 0.8

COMMENTS:

Released By	1/16/24 1630	Received By	1/16/24 1630
UPS		UPS	
Released By		Received By	1/18/24 1107
		Nucan	
Released By		Received By	

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-65828-1

Login Number: 65828

List Number: 1

List Source: Eurofins Houston

Creator: Jimenez, Nicanor

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
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.	False	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ATTACHMENT 13

EPAY VOUCHERS

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

Transaction Information

Voucher Number: 700274
Trace Number: 582EA000605405
Date: 04/05/2024 03:02 PM
Payment Method: CC - Authorization 000007529G
Voucher Amount: \$300.00
Fee Type: WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - NEW
ePay Actor: ERNESTO MAXIMILLIAN COOK
Actor Email: max@rangerenv.com
IP: 67.79.4.106

Payment Contact Information

Name: ERNESTO MAXIMILLIAN COOK
Company: RANGER ENVIRONMENTAL
Address: 7215 MCNEIL DRIVE, AUSTIN, TX 78729
Phone: 512-335-1785

Site Information

Site Name: WRIGHT CITY WSC 1
Site Address: 18523 FM 2089, OVERTON, TX 75684
Site Location: LOCATION ON E SIDE OF FM 2089 NORTH OF HIGHWAY 64

Customer Information

CN: CN600675284
Customer Name: WRIGHT CITY WSC
Customer Address: 24065 LYLES LANE, TROUP, TX 75789 5502
State Franchise Tax ID: 32027163594

[Close](#)

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

Transaction Information

Voucher Number: 700275
Trace Number: 582EA000605405
Date: 04/05/2024 03:02 PM
Payment Method: CC - Authorization 000007529G
Voucher Amount: \$50.00
Fee Type: 30 TAC 305.53B WQ NOTIFICATION FEE
ePay Actor: ERNESTO MAXIMILLIAN COOK
Actor Email: max@rangerenv.com
IP: 67.79.4.106

Payment Contact Information

Name: ERNESTO MAXIMILLIAN COOK
Company: RANGER ENVIRONMENTAL
Address: 7215 MCNEIL DRIVE, AUSTIN, TX 78729
Phone: 512-335-1785

[Close](#)

ATTACHMENT 14

**SUPPLEMENTAL PERMIT
INFORMATION FORM (SPIF)**

(TCEQ 20971)

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: Wright City WSC

Permit No. WQ00 _____

EPA ID No. TX _____

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

18523 FM 2089, Overton, Texas 75684, Smith County

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

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

First and Last Name: Charles Seale

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

Title: President

Mailing Address: 24065 Lyles Lane

City, State, Zip Code: Troup, Texas, 75789

Phone No.: 903-859-1281 Ext.: N/A Fax No.: Click here to enter text

E-mail Address: wrightcitywsc@gmail.com

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

N/A

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

Roadside ditch along FM 2089, thence to an unnamed tributary, thence to Wright Branch, thence to Bowles Creek (Segment #0611V)

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:

WSC #1 consist of a 500 Pound propane tank, booster pump room, Generator with awning, pressure tanks, storage room with chlorinators, and water storage tanks. This equipment is within native vegetation.

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:

A 20'x 28' x 10' cinder block building built to house the nanofiltration and current water treatment chemicals. No architect was involved. Built by Kenneth Orr Construction company out of Henderson, TX. They have another small building that houses their chlorination equipment and booster pumps, we do not know when it was built but it has been there at least 20 years.

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

Wright City WSC has been public water supply since 1967, this property and water well have been providing water since then.

ATTACHMENT 15

PLAIN LANGUAGE SUMMARY

(TCEQ 20972)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

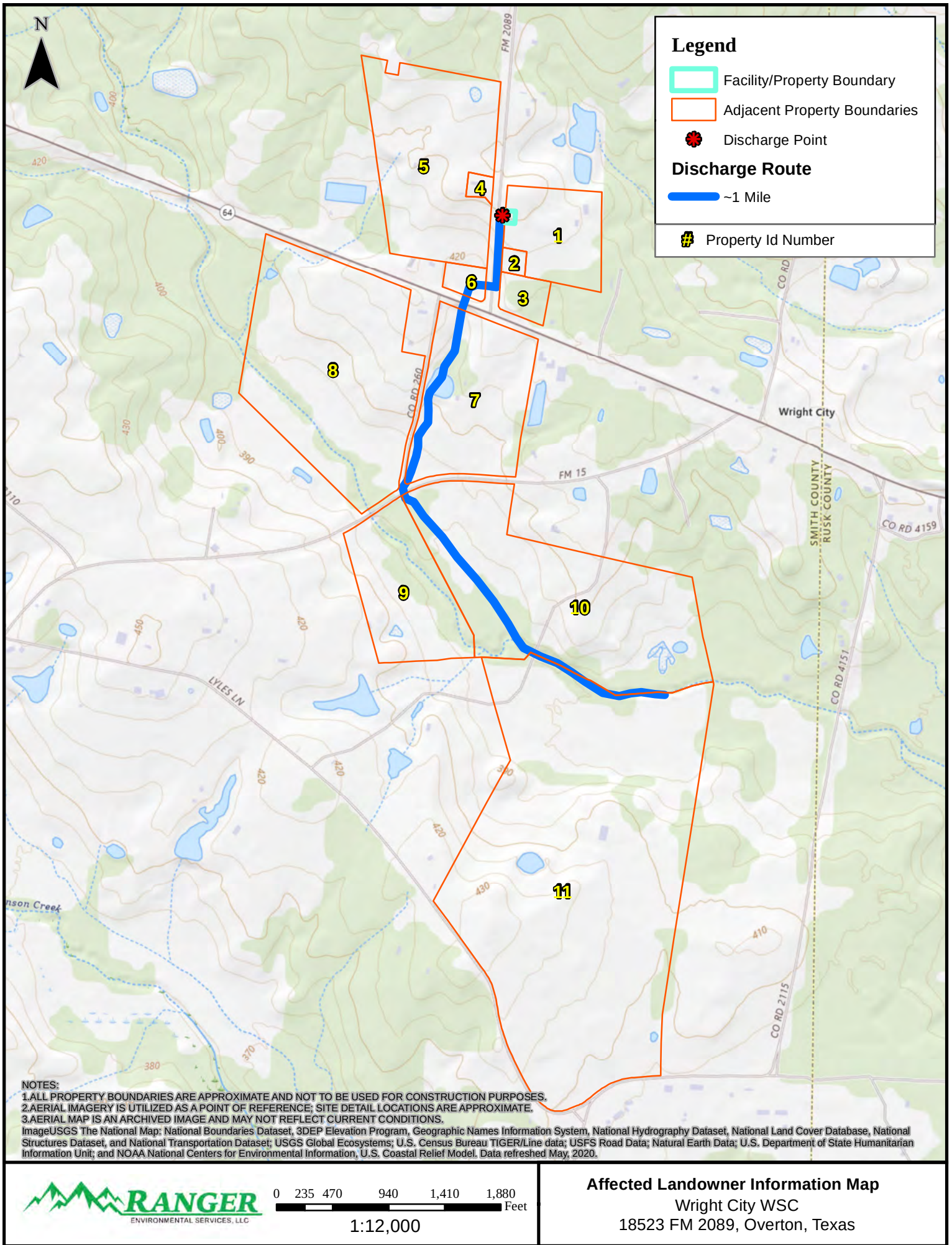
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal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

Wright City WSC (CN#600675284) operates Wright City WSC #1 (RN#101237063), a public water supply (facility). The facility is located at 18523 FM 2089 (approximate GPS coordinates 32.20154, -94.99400), in Overton, Smith County, Texas 75684. This is a request for a new industrial wastewater permit to discharge approximately 54,000 gallons per day of reject water. The discharge (reject water) will consist of untreated groundwater that has been processed through a nanofiltration system that removes larger molecules and ions from the water, such as organic matter, bacteria, calcium, and magnesium. This permit will not authorize a discharge of pollutants into water in the state.

The facility supports a public water supply system that filters groundwater for public use. Groundwater is collected and will go through a two-stage nanofiltration process where larger molecules and ions are stripped from the water prior to public use. The reject water that contains the larger molecules and ions will be discharged at the facility to a roadside ditch

along FM 2089. The discharge will then flow to an unnamed tributary which flows to Wright Branch and then to Bowles Creek (Segment Number 0611V).

Discharges from the facility are expected to contain no chemicals of concern. The reject water will be discharged only after going through a two-stage nanofiltration process; there are no chemical additives to the reject water.



NUMBERS CORRESPOND TO *AFFECTED LANDOWNER INFORMATION MAP* PROPERTY IDENTIFICATION
IDS

- 1) MICHAEL W HARDIN
18282 FM 2089
OVERTON TX 75648
- 2) DANNY PAUL STEPHENSON AND AMY INEZ
18871 FM 2089
OVERTON TX 75684-4493
- 3) DANNY P STEPHENSON AND AMY L
18871 FM 2089
OVERTON TX 75684-4493
- 4) HEATHER R AND TRACY L EVANS
17756 FM 2089
OVERTON TX 75684-4443
- 5) HEATHER R AND TRACY L EVANS
17756 FM 2089
OVERTON TX 75684
- 6) DANNY P STEPHENSON AND AMY L
18871 FM 2089
OVERTON TX 75684
- 7) JACOB D AND KORTNI R KING
24670 STATE HIGHWAY 64 E
TROUP TX 75789
- 8) CHARLES B WEITERMAN
23090 HWY 64E
TROUP TX 75789
- 9) JOHN AND SANDRA PARNELL TODD
108 HILLVIEW DR
HENDERSON TX 75652
- 10) JERRY MATHIS
25332 FM 15
TROUP TX 75789
- 11) ROY L KINGRY JR AND JULIA HWANG
8704 PALUXY DR
TYLER TX 75703-5942

MICHAEL W HARDIN
18282 FM 2089
OVERTON TX 75648

DANNY P STEPHENSON AND AMY L
18871 FM 2089
OVERTON TX 75684-4493

HEATHER R AND TRACY L EVANS
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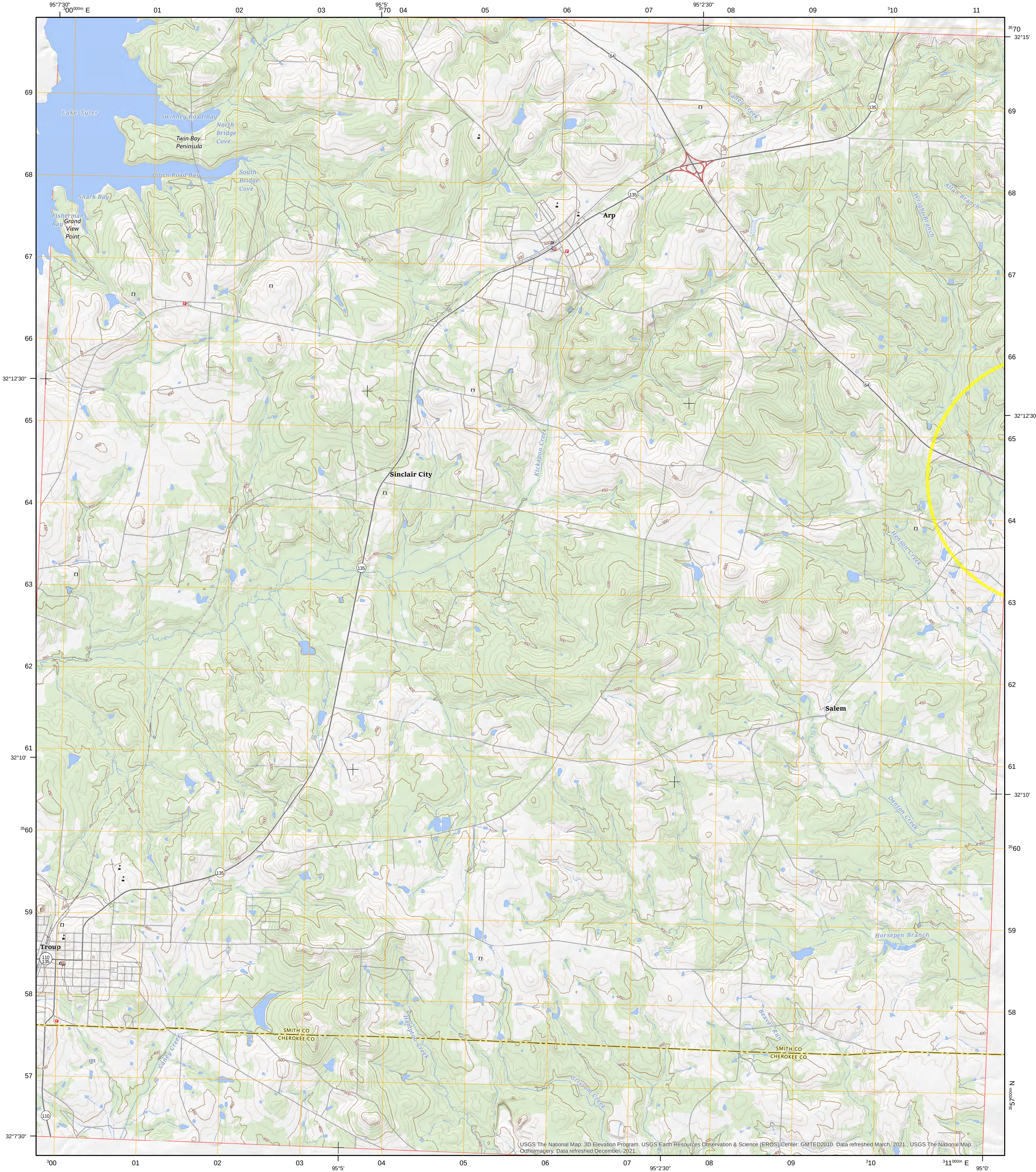
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25332 FM 15
TROUP TX 75789

ROY L KINGRY JR AND JULIA HWANG
8704 PALUXY DR
TYLER TX 75703-5942

Legend

1-Mile Radius

TROUP EAST QUADRANGLE
TEXAS
7.5-MINUTE

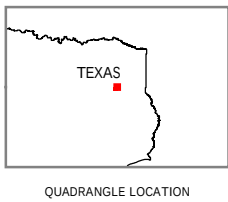
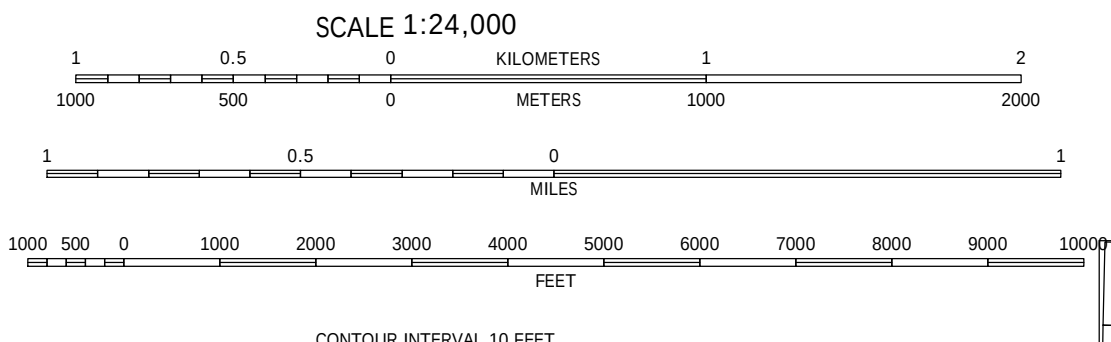
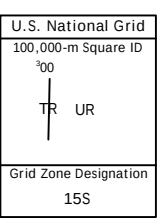


Coordinate System: NAD 1983 UTM Zone 15N
Projection: Transverse Mercator
Datum: North American 1983

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Initial styling of this Map Document was provided by the US Geological Survey. The edited content in this document are neither done by nor endorsed by the USGS.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2018
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2003 - 2018
Contours.....National Elevation Dataset, 2018
Boundaries.....Multiple Sources: see metadata file 2019 - 2021



ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp

Local Connector
Local Road
4WD

Interstate Route
US Route
State Route

Beacom	Hipe Pond	Kilgore SW
Troup West	Troup East	Price
Tucula	Griffin	Gum Springs

ADJOINING QUADRANGLES

TROUP EAST, TX
2024

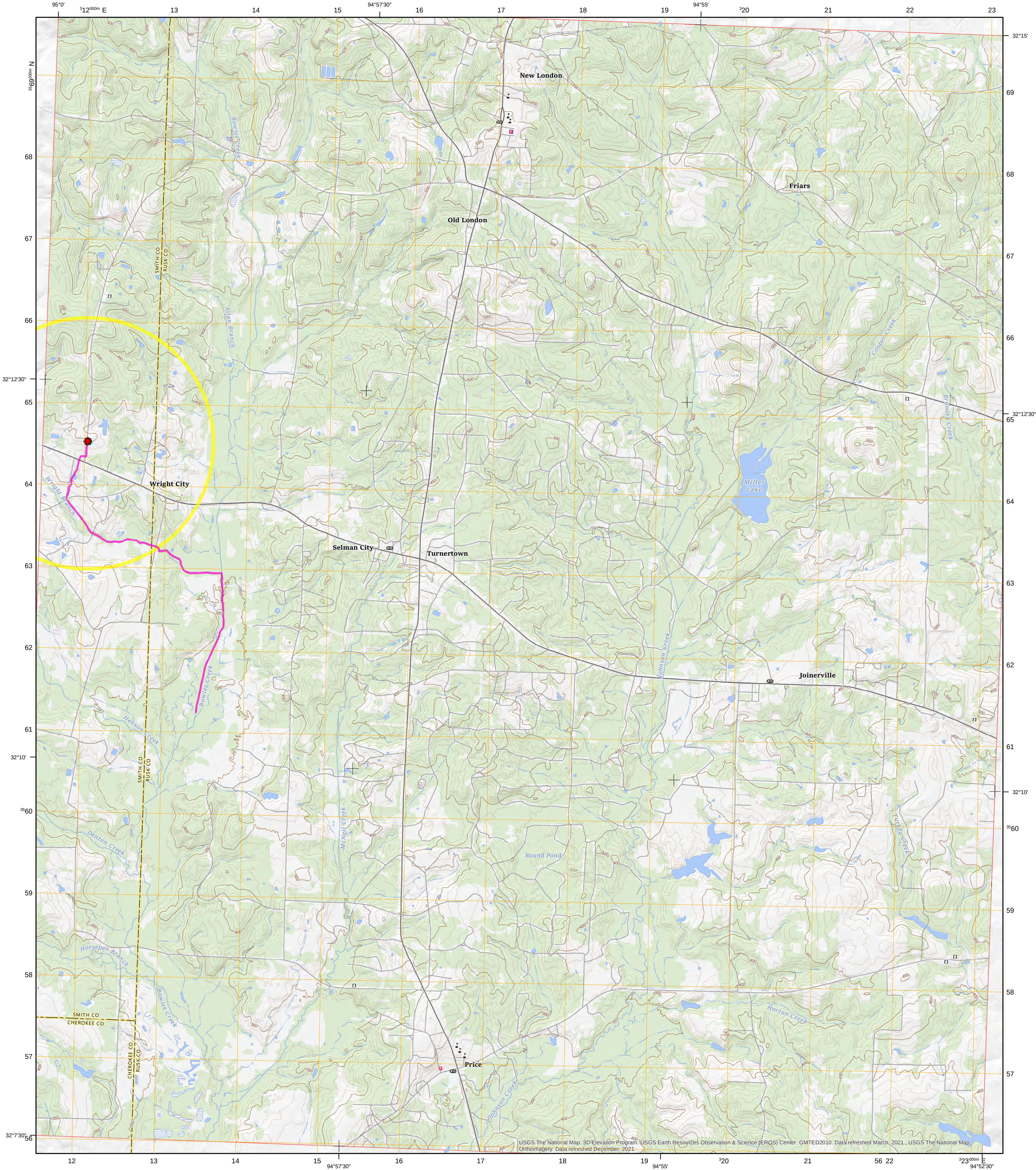
Legend

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

-  Discharge Point
 Discharge Route (~3 Miles)

-  Property/Facility Boundary  1-Mile Radius

PRINCE QUADRANGLE
TEXAS
7.5-MINUTE



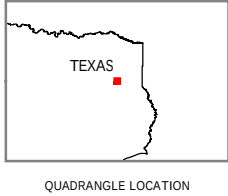
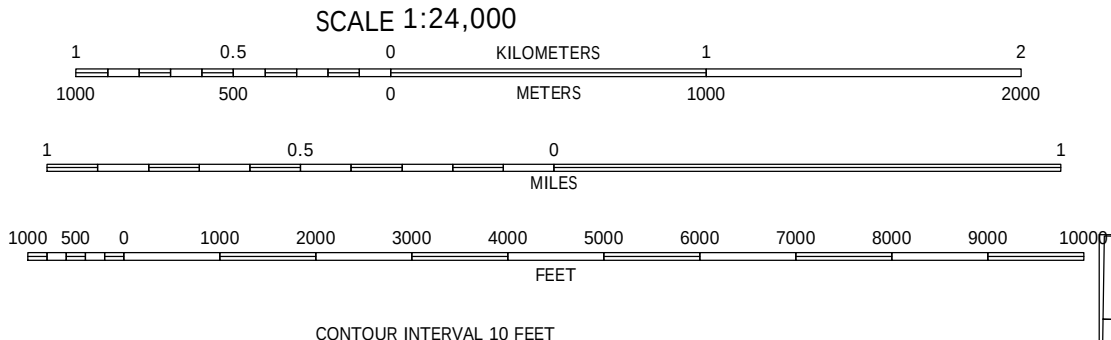
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Boundaries.....Multiple sources; see metadata file 2019 - 2021

U.S. National Grid 100,000-m Square ID
UR
Grid Zone Designation 15S



- ROAD CLASSIFICATION
- Expressway  Local Connector 
Secondary Hwy  Local Road 
Ramp  4WD 
 Interstate Route  US Route  State Route

Hope Pond	Kilgore SW	Kilgore SE
Troup East	Price	Henderson
Griffin	Gum Springs	Berryhill Creek

ADJOINING QUADRANGLES

PRINCE QUADRANGLE, TX
2024



TEXAS COMMISSION ON ENVIRONMENTAL
QUALITY

P.O. Box 13087
Austin, Texas 78711-3087

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

TPDES PERMIT NO.
WQ0005459000
*[For TCEQ office use only -
EPA I.D. No. TX0145963]*

Wright City Water Supply Corporation

whose mailing address is

24065 Lyles Lane
Troup, Texas 75789

is authorized to treat and discharge wastes from Wright City Water Supply Corporation (WSC), public water supply facility (SIC 4941)

located at 18523 Farm-to-Market 2089, in the City of Overton, Smith County, Texas 75684

from the plant to an unnamed ditch; thence to an unnamed tributary; thence to Wright Branch; thence to Bowles Creek; thence to Striker Creek; thence to Lake Striker; thence to Striker Creek; thence to Angelina River Above Sam Rayburn Reservoir in Segment No. 0611 of the Neches River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, five years from the date of permit issuance.

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge water treatment wastes ¹ subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.054 million gallons per day (MGD).

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	0.054 MGD	Report, MGD	N/A	Continuous	Record
Dissolved Aluminum ²	Report	Report	N/A	1/week	Grab
Total Aluminum ²	Report	Report	N/A	1/week	Grab
Total Dissolved Solids ²	N/A	Report	N/A	1/month	Grab
Chloride ²	N/A	Report	N/A	1/month	Grab
Sulfate ²	N/A	Report	N/A	1/month	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/week by grab sample.
3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
4. Effluent monitoring samples must be taken at the following location: At Outfall 001, at roadside ditch along Farm-to-Market 2089 Road.

¹ See Other Requirement No. 3.

² This monitoring requirement begins upon the date of issuance of permit and expires 58 months after date of permit issuance..

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC §§305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in Texas Water Code §26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

- a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder, and limited to major domestic wastewater discharge facilities with a one million gallons per day or greater permitted flow.
- b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
 - ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total

mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the “daily discharge” is calculated as the average measurement of the pollutant over the sampling day.

The “daily discharge” determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the “daily discharge” determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

- e. Bacteria concentration (Fecal coliform, *E. coli*, or Enterococci) – the number of colonies of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the n th root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substitute value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
- f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as $(\text{Flow, MGD} \times \text{Concentration, mg/L} \times 8.34)$.
- g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(c).
 - b. Grab sample - an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
 - 5. The term “sewage sludge” is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
 - 6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act; TWC Chapters 26, 27, and 28; and THSC Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR §264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
 - i. date, time, and place of sample or measurement;
 - ii. identity of individual who collected the sample or made the measurement;
 - iii. date and time of analysis;
 - iv. identity of the individual and laboratory who performed the analysis;
 - v. the technique or method of analysis; and
 - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the regional office and the Enforcement Division (MC 224).

7. Noncompliance Notification

- a. In accordance with 30 TAC §305.125(9) any noncompliance that may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the regional office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the regional office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective September 1, 2020, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. unauthorized discharges as defined in Permit Condition 2(g).
 - ii. any unanticipated bypass that exceeds any effluent limitation in the permit.
 - iii. violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
- c. In addition to the above, any effluent violation that deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the regional office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the regional office, orally or by facsimile transmission within 24 hours, and both the regional office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. one hundred micrograms per liter (100 µg/L);
 - ii. two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - iii. five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. the level established by the TCEQ.

- b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
 - i. five hundred micrograms per liter (500 µg/L);
 - ii. one milligram per liter (1 mg/L) for antimony;
 - iii. ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. the level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC §305.128 (relating to Signatories to Reports).

11. All POTWs must provide adequate notice to the Executive Director of the following:

- a. any new introduction of pollutants into the POTW from an indirect discharger that would be subject to CWA §301 or §306 if it were directly discharging those pollutants;
- b. any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
- c. for the purpose of this paragraph, adequate notice shall include information on:
 - i. the quality and quantity of effluent introduced into the POTW; and
 - ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
 - i. violation of any terms or conditions of this permit;
 - ii. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending, or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment,

revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§305.62 and 305.66 and TWC §7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC §305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility that does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA §402, or any requirement imposed in a pretreatment program approved under the CWA §§402(a)(3) or 402(b)(8).

3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC Chapter 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit, or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC §7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
 - i. the alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC §305.534 (relating to New Sources and New Dischargers); or
 - ii. the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
 - iii. the alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes that are not described in the permit application or that would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC §26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA §307(a) for a toxic pollutant that is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA §307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC §305.64 (relating to Transfer of Permits) and 30 TAC §50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to Texas Water Code Chapter 11.

8. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy.

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
 - i. the permittee;
 - ii. an entity (as that term is defined in 11 USC, §101(15)) controlling the permittee or listing the permit or permittee as property of the estate; or
 - iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.
- b. This notification must indicate:
 - i. the name of the permittee;
 - ii. the permit number(s);
 - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).
7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
 - a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion or upgrading of the domestic wastewater treatment or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment or collection facilities. In the case of a domestic wastewater treatment facility that reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
 - c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit 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 permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required 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.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
11. Facilities that generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:
- a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.
 - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
 - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. volume of waste and date(s) generated from treatment process;
 - ii. volume of waste disposed of on-site or shipped off-site;
 - iii. date(s) of disposal;

- iv. identity of hauler or transporter;
- v. location of disposal site; and
- vi. method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC Code Chapter 361.

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OTHER REQUIREMENTS

1. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 5 within 24 hours from the time the permittee becomes aware of the violation, followed by a written report within five working days to TCEQ Region 5 and Compliance Monitoring Team (MC 224): None.

Test methods used must be sensitive enough to demonstrate compliance with the permit effluent limitations. If an effluent limit for a pollutant is less than the MAL, then the test method for that pollutant must be sensitive enough to demonstrate compliance at the MAL. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit, with consideration given to the MAL for the pollutants specified above.

Pollutant	MAL¹ (mg/L)
Aluminum (Total)	0.0025
Aluminum (Dissolved)	0.0025

When an analysis of an effluent sample for a pollutant listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form:

“The reported value(s) of zero for _____ [list pollutant(s)] _____ on the self-reporting form for [monitoring period date range] _____ is based on the following conditions: (1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and (2) the analytical results contained no detectable levels above the specified MAL.”

When an analysis of an effluent sample for a pollutant indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that pollutant, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero may not be used.

2. This permit does not authorize the discharge of domestic wastewater. All domestic wastewater must be disposed of in an approved manner, such as routing to an approved on-site septic tank and drainfield system or to an authorized third party for treatment and disposal.
3. The term water treatment wastes includes, but is not limited to: cold lime water treatment wastes, demineralizer backwash, filter backwash, ion exchange water treatment system wastes, membrane regeneration wastes, and reverse osmosis reject water.
4. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.
5. Reporting requirements according to 30 TAC §§ 319.1-319.12 and any additional effluent reporting requirements contained in the permit are suspended from the effective date of the permit until plant startup or discharge, whichever occurs first, from the facility described by this permit. The permittee shall provide written notice to the TCEQ Region 5 Office, Applications Review and

¹ Minimum analytical level.

Processing Team (MC 148) of the Water Quality Division, and Compliance Monitoring Team (MC 224) at least forty-five days prior to plant startup or anticipated discharge, whichever occurs first, on Notification of Completion Form 20007.

6. Wastewater discharged via Outfall 001 must be sampled and analyzed as directed below for those parameters listed in Tables 1, 2, and 3 of Attachment A of this permit. Analytical testing for Outfall 001 must be completed within 60 days of initial discharge. Results of the analytical testing must be submitted within 90 days of initial discharge to the TCEQ Industrial Permits Team (MC 148) and Region 5 Office. Based on a technical review of the submitted analytical results, an amendment may be initiated by TCEQ staff to include additional effluent limitations, monitoring requirements, or both.

Table 1: Analysis is required for all pollutants in Table 1. Wastewater must be sampled and analyzed for those parameters listed in Table 1 for a minimum of four sampling events that are each at least one week apart.

Table 2: Analysis is required for all pollutants in Table 2. Wastewater must be sampled and analyzed for those parameters listed in Table 2 for a minimum of four sampling events that are each at least one week apart.

Table 3: For all pollutants listed in Table 3, the permittee shall indicate whether each pollutant is believed to be present or absent in the discharge. Sampling and analysis must be conducted for each pollutant believed present for a minimum of one sampling event.

The permittee shall report the flow at Outfall 001 in MGD in the attachment. The permittee shall indicate on each table whether the samples are composite (C) or grab (G) by checking the appropriate box.

7. SOURCE IDENTIFICATION AND REDUCTION STUDY PLAN

The permittee shall develop and submit a study plan to characterize the total and dissolved aluminum composition of the effluent and demonstrate that the discharge is not toxic to aquatic life with respect to total aluminum. The plan must be submitted to the TCEQ Water Quality Assessment Section (MC 150), Industrial Permits Team (MC 148), and Region 5 Office within 120 days after permit issuance. The TCEQ will review the work plan and may disapprove or modify the work plan within 60 days of receipt, with no response being equivalent to approval. The work plan to demonstrate the discharge is not toxic to aquatic life may include, but is not limited to or required to include, a partition coefficient study or a bioavailability study. The duration of the study shall be three years from the date of implementation and annual progress reports shall be submitted by Dec 31st of each year to the TCEQ Compliance Monitoring Team (MC 224).

Attachment A

Table 1

Outfall No.:	☐ C ☐ G	Effluent Concentration (mg/L)				
Pollutant		Samp.	Samp.	Samp.	Samp.	Average
Flow (MGD)						
BOD (5-day)						
CBOD (5-day)						
Chemical Oxygen Demand						
Total Organic Carbon						
Dissolved Oxygen						
Ammonia Nitrogen						
Total Suspended Solids						
Nitrate Nitrogen						
Total Organic Nitrogen						
Total Phosphorus						
Oil and Grease						
Total Residual Chlorine						
Total Dissolved Solids						
Sulfate						
Chloride						
Fluoride						
Total Alkalinity (mg/L as CaCO ₃)						
Temperature (°F)						
pH (Standard Units; min/max)						

Table 2

Pollutant	Effluent Concentration (µg/L) ²					MAL ³ (µg/L)
	Samp. 1	Samp. 2	Samp. 3	Samp. 4	Average	
Aluminum, Total						2.5
Antimony, Total						5
Arsenic, Total						0.5
Barium, Total						3
Beryllium, Total						0.5
Cadmium, Total						1
Chromium, Total						3
Chromium, Hexavalent						3
Chromium, Trivalent						N/A
Copper, Total						2
Cyanide, Free						10
Lead, Total						0.5
Mercury, Total						0.005
Nickel, Total						2
Selenium, Total						5
Silver, Total						0.5
Thallium, Total						0.5
Zinc, Total						5.0

² Indicate units if different than µg/L.³ Minimum Analytical Level.

Table 3

Outfall No.	☐ C ☐ G	Believed Present	Believed Absent	Average Conc. (mg/L)	Maximum Conc. (mg/L)	No. of Samples	MAL (mg/L)
Pollutant							
Bromide							0.400
Color (PCU)							—
Nitrate-Nitrite (as N)							—
Sulfide (as S)							—
Sulfite (as SO ₃)							—
Surfactants							—
Boron, total							0.020
Cobalt, total							0.0003
Iron, total							0.007
Magnesium, total							0.020
Manganese, total							0.0005
Molybdenum, total							0.001
Tin, total							0.005
Titanium, total							0.030

STATEMENT OF BASIS/TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant: Wright City Water Supply Corporation; Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005459000 (EPA I.D. No. TX0145963)

Regulated activity: Industrial wastewater permit

Type of application: New permit

Request: New permit

Authority: Federal Clean Water Act (CWA) §402; Texas Water Code (TWC) §26.027; 30 Texas Administrative Code (TAC) Chapter 305, Subchapters C-F, and Chapters 307 and 319; commission policies; and Environmental Protection Agency (EPA) guidelines

EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit will expire at midnight, five years from the date of permit issuance according to the requirements of 30 TAC §305.127(1)(C)(i).

REASON FOR PROJECT PROPOSED

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit.

PROJECT DESCRIPTION AND LOCATION

The applicant currently proposes to operate Wright City Water Supply Corporation (WSC), a public water supply facility.

The facility will utilize a two stage nanofiltration system to filter groundwater for public use. The nanofiltration system uses membranes with very small pores to remove unwanted larger molecules and ions (bacteria, calcium, magnesium, organic matter, etc.) from the groundwater. The feed water filtered through the system will be for public use, while the reject water that contains the unwanted molecules and ions will be reject water discharged at the facility. The system will generate as much as 54,000 gallons per day of reject groundwater per day. No chemicals are added to the reject water before discharge. Domestic wastewater is not generated on site.

The facility is located at 18523 Farm-to-Market 2089, in the City of Overton, Smith County, Texas 75684.

Discharge Route and Designated Uses

The effluent is discharged from the plant to an unnamed ditch; thence to an unnamed tributary; thence to Wright Branch; thence to Bowles Creek; thence to Striker Creek; thence to Lake Striker; thence to Striker Creek; thence to Angelina River Above Sam Rayburn Reservoir in Segment No. 0611 of the Neches River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch and Wright Branch, limited aquatic life use for the unnamed tributary, and high aquatic life use for Bowles Creek. The designated uses for Segment No. 0611 are primary contact recreation, public water supply, and high aquatic life use. The effluent limits in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and revisions.

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION
TPDES Permit No. WQ0005459000

Antidegradation Review

In accordance with 30 TAC §307.5 and TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in Bowles Creek, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

Endangered Species Review

The discharge from this permit is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and the EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS's biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Impaired Water Bodies

Segment No. 0611 is currently listed on the state's inventory of impaired and threatened waters, the 2022 CWA §303(d) list. The listing is for bacteria from the aqueduct crossing upstream to the confluence with Old River Channel in Nacogdoches County about 2.8 km downstream of County Hwy 2625 at NHD RC 12020004000039 (AU 0611_01) and from a point immediately upstream of the confluence with Mud Creek (0611C) upstream to the confluence with Barnhardt and Mill Creeks (AUs 0611_03 and 0611_04). The facility is not authorized to discharge domestic wastewater nor is bacteria anticipated to be present in the discharge from this facility based on facility processes.

Completed Total Maximum Daily Loads (TMDLs)

There are no completed TMDLs for Segment No. 0611.

Dissolved Oxygen

Due to the low levels of oxygen-demanding constituents expected from this type of waste stream, no significant dissolved oxygen depletion is anticipated in the receiving waters as a result of this discharge.

SUMMARY OF EFFLUENT DATA

Self-reporting data is not available because the facility has not been constructed.

DRAFT PERMIT CONDITIONS

The draft permit authorizes the discharge of water treatment waste at a daily average flow not to exceed 0.054 million gallons per day (MGD) via Outfall 001.

Effluent limitations are established in the draft permit as follows:

Outfall	Pollutant	Daily Average mg/L	Daily Maximum mg/L
001	Flow	0.0540 MGD	Report, MGD

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION
TPDES Permit No. WQ0005459000

Outfall	Pollutant	Daily Average mg/L	Daily Maximum mg/L
001	Dissolved Aluminum ¹	Report	Report
	Total Aluminum ¹	Report	Report
	Total Dissolved Solids (TDS) ¹	N/A	Report
	Chloride ¹	N/A	Report
	Sulfate ¹	N/A	Report
	pH	6.0 SU, minimum	9.0 SU

¹ This monitoring requirement begins upon the date of issuance of permit and expires 58 months after date of permit issuance

OUTFALL LOCATIONS

Outfall	Latitude	Longitude
001	32.200136 N	94.994487 W

Technology-Based Effluent Limitations

Regulations in Title 40 of the Code of Federal Regulations (40 CFR) require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines. Discharge of water treatment wastes is not subject to any federal effluent limitations guidelines. pH limits are based on BPJ and are typical of limits included in wastewater permits.

Water Quality-Based Effluent Limitations

Calculations of water quality-based effluent limitations for the protection of aquatic life and human health are presented in Appendix B. Aquatic life criteria established in Table 1 and human health criteria established in Table 2 of 30 TAC Chapter 307 are incorporated into the calculations, as are recommendations in the Water Quality Assessment Team's memorandum dated July 12, 2024. TCEQ practice for determining significant potential is to compare the reported analytical data from the facility against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85 percent of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

Data reported in the application was from a single sample of a like plant and screened against the calculated water quality-based effluent limitations and Other Requirement No. 6 is added to the draft permit to require a total of four samples to be tested. Self-expiring monitoring requirements for dissolved aluminum and total aluminum are placed in the draft permit. In addition, Other Requirement No. 7 is added to the draft permit to require a study to demonstrate that the effluent is not toxic to aquatic life with respect to total aluminum.

Total Dissolved Solids (TDS), Chloride, and Sulfate Screening

Concentrations of TDS, chloride, and sulfate reported in the application from the one sample are all greater than the respective criteria for Segment No. 0611; therefore, further screening is necessary. See Appendix B. Other Requirement No. 6 is added to the draft permit to require a total of four samples to be tested for reevaluation purposes. Self-expiring monitoring requirements for TDS, chloride, and sulfate are placed in the draft permit to obtain more comprehensive effluent data during the permit term.

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pH Screening

The draft permit includes pH limits of 6.0 – 9.0 SU at Outfall 001, which discharges into an unclassified water body. Consistent with the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 – 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* pH criteria. These limits have been carried forward in the draft permit.

Whole Effluent Toxicity Testing (Biomonitoring)

Biomonitoring requirements are not included in the draft permit. The discharges authorized by this permit do not meet the threshold established in the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194) to impose biomonitoring requirements.

SUMMARY OF CHANGES FROM APPLICATION

No changes were made from the application.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on April 26, 2024, and additional information received on May 24, 2024.
2. TCEQ Rules.
3. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 1, 2018, as approved by EPA Region 6.
4. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.
5. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not approved by EPA Region 6.
6. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not approved by EPA Region 6.
7. *Procedures to Implement the Texas Surface Water Quality Standards* (IPs), Texas Commission on Environmental Quality, June 2010, as approved by EPA Region 6.
8. *Procedures to Implement the Texas Surface Water Quality Standards*, Texas Commission on Environmental Quality, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.
9. Memos from the Standards Implementation Team and Water Quality Assessment Team of the Water Quality Assessment Section of the TCEQ.
10. *Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits*, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.
11. EPA Effluent Guidelines: N/A.
12. Consistency with the Coastal Management Plan: N/A
13. Letter dated May 28, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for pH evaluation procedures).
14. Letter dated June 2, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for pH evaluation procedures).
15. Guidance – Industrial Permits: Uncontaminated Stormwater Runoff, EPA, January 1997.

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PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the chief clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for reviewing and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent to the Chief Clerk, along with the Executive Director's preliminary decision contained in the technical summary or fact sheet. At that time, the Combined Notice of Receipt of Application and Intent to obtain water quality permit and the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case hearing.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ commissioners for their consideration at a scheduled commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the commission grants a contested case hearing as described above, the commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Thomas E. Starr at (512) 239-4570.

Thomas E. Starr
Thomas E. Starr, P.E.

September 3, 2025
Date

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Appendix A
Calculated Water Quality-Based Effluent Limits

TEXTOX MENU #7 - INTERMITTENT STREAM WITH PERENNIAL POOLS

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life

Table 2, 2018 Texas Surface Water Quality Standards for Human Health, Incidental Fishery

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	Wright Water Supply Corporation
TPDES Permit No.:	WQ0005459000
Outfall No.:	001
Prepared by:	Thomas Starr
Date:	September 3, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	unnamed tributary
Segment No.:	0611
TSS (mg/L):	8
pH (Standard Units):	6.5
Hardness (mg/L as CaCO ₃):	38
Chloride (mg/L):	19
Effluent Flow for Aquatic Life (MGD):	0.054
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Chronic Aquatic Life:	100
% Effluent for Acute Aquatic Life:	100
Effluent Flow for Human Health (MGD):	0.054
Harmonic Mean Flow (cfs):	0.1
% Effluent for Human Health:	45.519

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	104892.47	0.544		1.00	Assumed
Cadmium	6.60	-1.13	379759.21	0.248		1.00	Assumed
Chromium (total)	6.52	-0.93	478769.32	0.207		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	478769.32	0.207		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	224757.09	0.357		1.00	Assumed
Lead	6.45	-0.80	533983.71	0.190		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	149705.83	0.455		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	281719.76	0.307		1.00	Assumed
Zinc	6.10	-0.70	293654.74	0.299		1.00	Assumed

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AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	625	276	358	212	312	660
Cadmium	3.3	0.125	13.5	0.507	7.74	0.390	0.573	1.21
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.00400	1.38	0.00308	0.00452	0.00957
Chlorpyrifos	0.083	0.041	0.0830	0.0410	0.0476	0.0316	0.0464	0.0981
Chromium (+3)	258	34	1246	162	714	125	183	388
Chromium (+6)	15.7	10.6	15.7	10.6	9.00	8.16	11.9	25.3
Copper	5.7	4.1	16.0	11.6	9.15	8.92	13.1	27.7
Cyanide (free)	45.8	10.7	45.8	10.7	26.2	8.24	12.1	25.6
4,4'-DDT	1.1	0.001	1.10	0.00100	0.630	0.000770	0.00113	0.00239
Demeton	N/A	0.1	N/A	0.100	N/A	0.0770	0.113	0.239
Diazinon	0.17	0.17	0.170	0.170	0.0974	0.131	0.143	0.302
Dicofol	59.3	19.8	59.3	19.8	34.0	15.2	22.4	47.4
Dieldrin	0.24	0.002	0.240	0.00200	0.138	0.00154	0.00226	0.00478
Diuron	210	70	210	70.0	120	53.9	79.2	167
Endosulfan I (alpha)	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endosulfan II (beta)	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endosulfan sulfate	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endrin	0.086	0.002	0.0860	0.00200	0.0493	0.00154	0.00226	0.00478
Guthion	N/A	0.01	N/A	0.0100	N/A	0.00770	0.0113	0.0239
Heptachlor	0.52	0.004	0.520	0.00400	0.298	0.00308	0.00452	0.00957
Hexachlorocyclohexane (Lindane)	1.126	0.08	1.13	0.0800	0.645	0.0616	0.0905	0.191
Lead	22	0.87	117	4.56	67.1	3.51	5.16	10.9
Malathion	N/A	0.01	N/A	0.0100	N/A	0.00770	0.0113	0.0239
Mercury	2.4	1.3	2.40	1.30	1.38	1.00	1.47	3.11
Methoxychlor	N/A	0.03	N/A	0.0300	N/A	0.0231	0.0339	0.0718
Mirex	N/A	0.001	N/A	0.00100	N/A	0.000770	0.00113	0.00239
Nickel	207	22.9	454	50.4	260	38.8	57.0	120
Nonylphenol	28	6.6	28.0	6.60	16.0	5.08	7.47	15.8
Parathion (ethyl)	0.065	0.013	0.0650	0.0130	0.0372	0.0100	0.0147	0.0311
Pentachlorophenol	5.3	4.0	5.28	4.05	3.02	3.12	4.44	9.40
Phenanthrene	30	30	30.0	30.0	17.2	23.1	25.2	53.4
Polychlorinated Biphenyls (PCBs)	2.0	0.014	2.00	0.0140	1.15	0.0108	0.0158	0.0335
Selenium	20	5	20.0	5.00	11.5	3.85	5.65	11.9
Silver	0.8	N/A	5.45	N/A	3.12	N/A	4.59	9.71
Toxaphene	0.78	0.0002	0.780	0.000200	0.447	0.000154	0.000226	0.000478
Tributyltin (TBT)	0.13	0.024	0.130	0.0240	0.0745	0.0185	0.0271	0.0574
2,4,5 Trichlorophenol	136	64	136	64.0	77.9	49.3	72.4	153
Zinc	52	52	173	174	99.1	134	145	308

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HUMAN HEALTH (APPLIES FOR INCIDENTAL FRESHWATER FISH TISSUE)

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1150	2526	2350	3453	7307
Aldrin	1.147E-04	0.000252	0.000234	0.000344	0.000728
Anthracene	13170	28933	26908	39554	83682
Antimony	10710	23529	21882	32166	68052
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	5810	12764	11870	17449	36917
Benzidine	1.07	2.35	2.19	3.21	6.79
Benzo(a)anthracene	0.25	0.549	0.511	0.750	1.58
Benzo(a)pyrene	0.025	0.0549	0.0511	0.0750	0.158
Bis(chloromethyl)ether	2.745	6.03	5.61	8.24	17.4
Bis(2-chloroethyl)ether	428.3	941	875	1286	2721
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phtha	75.5	166	154	226	479
Bromodichloromethane [Dichlorobromomethane]	2750	6041	5619	8259	17473
Bromoform [Tribromomethane]	10600	23287	21657	31835	67353
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	460	1011	940	1381	2922
Chlordane	0.025	0.0549	0.0511	0.0750	0.158
Chlorobenzene	27370	60129	55920	82202	173910
Chlorodibromomethane [Dibromochloromethane]	1830	4020	3739	5496	11627
Chloroform [Trichloromethane]	76970	169095	157258	231169	489072
Chromium (hexavalent)	5020	11028	10256	15076	31897
Chrysene	25.2	55.4	51.5	75.6	160
Cresols [Methylphenols]	93010	204333	190029	279343	590991
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.02	0.0439	0.0409	0.0600	0.127
4,4'-DDE	0.0013	0.00286	0.00266	0.00390	0.00826
4,4'-DDT	0.004	0.00879	0.00817	0.0120	0.0254
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenprothrin]	4730	10391	9664	14205	30054
1,2-Dibromoethane [Ethylene Dibromide]	42.4	93.1	86.6	127	269
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	5950	13071	12156	17870	37806
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	32990	72475	67402	99081	209620
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	22.4	49.2	45.8	67.2	142
1,2-Dichloroethane	3640	7997	7437	10932	23128
1,1-Dichloroethylene [1,1-Dichloroethene]	551140	1210793	1126038	1655275	3501977
Dichloromethane [Methylene Chloride]	133330	292911	272407	400438	847187
1,2-Dichloropropane	2590	5690	5292	7778	16457
1,3-Dichloropropene [1,3-Dichloropropylene]	1190	2614	2431	3574	7561
Dicofol [Kelthane]	3	6.59	6.13	9.01	19.0
Dieldrin	2.0E-04	0.000439	0.000409	0.000600	0.00127
2,4-Dimethylphenol	84360	185330	172356	253364	536028
Di- <i>n</i> -Butyl Phthalate	924	2030	1888	2775	5871
Dioxins/Furans [TCDD Equivalents]	7.97E-07	0.0000018	0.0000016	0.0000024	0.0000051
Endrin	0.2	0.439	0.409	0.600	1.27
Epichlorohydrin	20130	44223	41128	60457	127907
Ethylbenzene	18670	41016	38145	56072	118630
Ethylene Glycol	1.68E+08	369077333	343241920	504565622	1067482371
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.001	0.00220	0.00204	0.00300	0.00635
Heptachlor Epoxide	0.0029	0.00637	0.00593	0.00870	0.0184
Hexachlorobenzene	0.0068	0.0149	0.0139	0.0204	0.0432
Hexachlorobutadiene	2.2	4.83	4.49	6.60	13.9

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<i>Parameter</i>	<i>Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Hexachlorocyclohexane (<i>alpha</i>)	0.084	0.185	0.172	0.252	0.533
Hexachlorocyclohexane (<i>beta</i>)	2.6	5.71	5.31	7.80	16.5
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	3.41	7.49	6.97	10.2	21.6
Hexachlorocyclopentadiene	116	255	237	348	737
Hexachloroethane	23.3	51.2	47.6	69.9	148
Hexachlorophene	29	63.7	59.3	87.0	184
4,4'-Isopropylidenediphenol [Bisphenol A]	159820	351107	326529	479998	1015506
Lead	38.3	444	413	606	1282
Mercury	0.122	0.268	0.249	0.366	0.775
Methoxychlor	30	65.9	61.3	90.1	190
Methyl Ethyl Ketone	9.92E+06	21793138	20267618	29793398	63032292
Methyl <i>tert</i> -butyl ether [MTBE]	104820	230278	214158	314812	666032
Nickel	11400	55039	51186	75243	159189
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	18730	41148	38267	56253	119011
N-Nitrosodiethylamine	21	46.1	42.9	63.0	133
N-Nitroso-di- <i>n</i> -Butylamine	42	92.3	85.8	126	266
Pentachlorobenzene	3.55	7.80	7.25	10.6	22.5
Pentachlorophenol	2.9	6.37	5.93	8.70	18.4
Polychlorinated Biphenyls [PCBs]	6.40E-03	0.0141	0.0131	0.0192	0.0406
Pyridine	9470	20805	19348	28441	60172
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.4	5.27	4.90	7.20	15.2
1,1,2,2-Tetrachloroethane	263.5	579	538	791	1674
Tetrachloroethylene [Tetrachloroethylene]	2800	6151	5721	8409	17791
Thallium	2.3	5.05	4.70	6.90	14.6
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.11	0.242	0.225	0.330	0.698
2,4,5-TP [Silvex]	3690	8107	7539	11082	23446
1,1,1-Trichloroethane	7843540	17231386	16025189	23557027	49838337
1,1,2-Trichloroethane	1660	3647	3392	4985	10547
Trichloroethylene [Trichloroethene]	719	1580	1469	2159	4568
2,4,5-Trichlorophenol	18670	41016	38145	56072	118630
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	165	362	337	495	1048

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Aquatic Life	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Aldrin	1.76	2.14
Aluminum	584	709
Arsenic	218	265
Cadmium	0.401	0.487
Carbaryl	1.17	1.43
Chlordane	0.00316	0.00384
Chlorpyrifos	0.0324	0.0394
Chromium (+3)	128	155
Chromium (+6)	8.39	10.1
Copper	9.18	11.1
Cyanide (free)	8.47	10.2
4,4'-DDT	0.000792	0.000962
Demeton	0.0792	0.0962
Diazinon	0.100	0.121
Dicofol	15.6	19.0
Dieldrin	0.00158	0.00192
Diuron	55.4	67.3
Endosulfan (alpha)	0.0443	0.0538
Endosulfan (beta)	0.0443	0.0538
Endosulfan sulfate	0.0443	0.0538
Endrin	0.00158	0.00192
Guthion	0.00792	0.00962
Heptachlor	0.00316	0.00384
Hexachlorocyclohexane (Lindane)	0.0633	0.0769
Lead	3.61	4.38
Malathion	0.00792	0.00962
Mercury	1.03	1.25
Methoxychlor	0.0237	0.0288
Mirex	0.000792	0.000962
Nickel	39.9	48.4
Nonylphenol	5.22	6.34
Parathion (ethyl)	0.0103	0.0125
Pentachlorophenol	3.11	3.77
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls (PCBs)	0.0110	0.0134
Selenium	3.96	4.81
Silver	3.21	3.90
Toxaphene	0.000158	0.000192
Tributyltin (TBT)	0.0190	0.0230
2,4,5 Trichlorophenol	50.7	61.5
Zinc	101	123

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
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Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Acrylonitrile	2417	2935
Aldrin	0.000241	0.000292
Anthracene	27688	33621
Antimony	22516	27341
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	12214	14832
Benzidine	2.24	2.73
Benzo(a)anthracene	0.525	0.638
Benzo(a)pyrene	0.0525	0.0638
Bis(chloromethyl)ether	5.77	7.00
Bis(2-chloroethyl)ether	900	1093
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phtha	158	192
Bromodichloromethane [Dichlorobromomethane]	5781	7020
Bromoform [Tribromomethane]	22284	27060
Cadmium	N/A	N/A
Carbon Tetrachloride	967	1174
Chlordane	0.0525	0.0638
Chlorobenzene	57541	69871
Chlorodibromomethane [Dibromochloromethane]	3847	4671
Chloroform [Trichloromethane]	161818	196493
Chromium (hexavalent)	10553	12815
Chrysene	52.9	64.3
Cresols [Methylphenols]	195540	237441
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0420	0.0510
4,4'-DDE	0.00273	0.00331
4,4'-DDT	0.00840	0.0102
2,4'-D	N/A	N/A
Danitol [Fenprothrin]	9944	12075
1,2-Dibromoethane [Ethylene Dibromide]	89.1	108
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	12509	15189
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	69356	84218
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	47.0	57.1
1,2-Dichloroethane	7652	9292
1,1-Dichloroethylene [1,1-Dichloroethene]	1158692	1406984
Dichloromethane [Methylene Chloride]	280307	340373
1,2-Dichloropropane	5445	6611
1,3-Dichloropropene [1,3-Dichloropropylene]	2501	3037
Dicofol [Kelthane]	6.30	7.65
Dieldrin	0.000420	0.000510
2,4-Dimethylphenol	177354	215359
Di- <i>n</i> -Butyl Phthalate	1942	2358
Dioxins/Furans [TCDD Equivalents]	0.0000017	0.0000020
Endrin	0.420	0.510
Epichlorohydrin	42320	51389
Ethylbenzene	39251	47661
Ethylene Glycol	353195935	428880779
Fluoride	N/A	N/A
Heptachlor	0.00210	0.00255
Heptachlor Epoxide	0.00609	0.00740
Hexachlorobenzene	0.0142	0.0173
Hexachlorobutadiene	4.62	5.61

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Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Hexachlorocyclohexane (<i>alpha</i>)	0.176	0.214
Hexachlorocyclohexane (<i>beta</i>)	5.46	6.63
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	7.16	8.70
Hexachlorocyclopentadiene	243	296
Hexachloroethane	48.9	59.4
Hexachlorophene	60.9	74.0
4,4'-Isopropylidenediphenol [Bisphenol A]	335998	407998
Lead	424	515
Mercury	0.256	0.311
Methoxychlor	63.0	76.5
Methyl Ethyl Ketone	20855379	25324388
Methyl <i>tert</i> -butyl ether [MTBE]	220369	267590
Nickel	52670	63957
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	39377	47815
N-Nitrosodiethylamine	44.1	53.6
N-Nitroso-di- <i>n</i> -Butylamine	88.2	107
Pentachlorobenzene	7.46	9.06
Pentachlorophenol	6.09	7.40
Polychlorinated Biphenyls [PCBs]	0.0134	0.0163
Pyridine	19909	24175
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	5.04	6.12
1,1,2,2-Tetrachloroethane	553	672
Tetrachloroethylene [Tetrachloroethylene]	5886	7148
Thallium	4.83	5.87
Toluene	N/A	N/A
Toxaphene	0.231	0.280
2,4,5-TP [Silvex]	7757	9420
1,1,1-Trichloroethane	16489919	20023473
1,1,2-Trichloroethane	3489	4237
Trichloroethylene [Trichloroethene]	1511	1835
2,4,5-Trichlorophenol	39251	47661
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	346	421

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TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life

Table 2, 2018 Texas Surface Water Quality Standards for Human Health

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	Wright City Water Supply Corporation
TPDES Permit No.:	WQ0005459000
Outfall No.:	001
Prepared by:	Thomas Starr
Date:	September 3, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Bowles Creek
Segment No.:	0611
TSS (mg/L):	8
pH (Standard Units):	6.5
Hardness (mg/L as CaCO ₃):	38
Chloride (mg/L):	19
Effluent Flow for Aquatic Life (MGD):	N/A
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Chronic Aquatic Life (Mixing Zone):	N/A
% Effluent for Acute Aquatic Life (ZID):	N/A
Effluent Flow for Human Health (MGD):	0.054
Harmonic Mean Flow (cfs):	0.2
% Effluent for Human Health:	29.47
Human Health Criterion (select: PWS, FISH, or INC)	FISH

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	104892.47	0.544		1.00	Assumed
Cadmium	6.60	-1.13	379759.21	0.248		1.00	Assumed
Chromium (total)	6.52	-0.93	478769.32	0.207		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	478769.32	0.207		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	224757.09	0.357		1.00	Assumed
Lead	6.45	-0.80	533983.71	0.190		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	149705.83	0.455		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	281719.76	0.307		1.00	Assumed
Zinc	6.10	-0.70	293654.74	0.299		1.00	Assumed

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
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HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Water and Fish Criterion</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	390	363	533	1128
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.0000389	0.0000362	0.0000532	0.000112
Anthracene	1109	1317	13170	4470	4157	6110	12927
Antimony	6	1071	10710	3635	3380	4969	10512
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	1972	1834	2695	5702
Benzidine	0.0015	0.107	1.07	0.363	0.338	0.496	1.05
Benzo(a)anthracene	0.024	0.025	0.25	0.0848	0.0789	0.115	0.245
Benzo(a)pyrene	0.0025	0.0025	0.025	0.00848	0.00789	0.0115	0.0245
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.932	0.866	1.27	2.69
Bis(2-chloroethyl)ether	0.60	42.83	428.3	145	135	198	420
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	25.6	23.8	35.0	74.1
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	933	868	1275	2699
Bromoform [Tribromomethane]	66.9	1060	10600	3597	3346	4918	10404
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	156	145	213	451
Chlordane	0.0025	0.0025	0.025	0.00848	0.00789	0.0115	0.0245
Chlorobenzene	100	2737	27370	9289	8639	12698	26865
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	621	578	849	1796
Chloroform [Trichloromethane]	70	7697	76970	26122	24293	35711	75552
Chromium (hexavalent)	62	502	5020	1704	1584	2329	4927
Chrysene	2.45	2.52	25.2	8.55	7.95	11.6	24.7
Cresols [Methylphenols]	1041	9301	93010	31566	29356	43153	91296
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00679	0.00631	0.00927	0.0196
4,4'-DDE	0.00013	0.00013	0.0013	0.000441	0.000410	0.000603	0.00127
4,4'-DDT	0.0004	0.0004	0.004	0.00136	0.00126	0.00185	0.00392
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	1605	1493	2194	4642
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	14.4	13.4	19.6	41.6
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	2019	1878	2760	5840
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	11196	10412	15306	32382
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	7.60	7.07	10.3	21.9
1,2-Dichloroethane	5	364	3640	1235	1149	1688	3572
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	187045	173952	255708	540989
Dichloromethane [Methylene Chloride]	5	13333	133330	45249	42082	61860	130874
1,2-Dichloropropane	5	259	2590	879	817	1201	2542
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	404	376	552	1168
Dicofol [Kelthane]	0.30	0.30	3	1.02	0.947	1.39	2.94
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000679	0.0000631	0.0000927	0.000196
2,4-Dimethylphenol	444	8436	84360	28630	26626	39139	82806
Di- <i>n</i> -Butyl Phthalate	88.9	92.4	924	314	292	428	906
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	2.70E-07	2.52E-07	3.69E-07	7.82E-07
Endrin	0.02	0.02	0.2	0.0679	0.0631	0.0927	0.196
Epichlorohydrin	53.5	2013	20130	6832	6353	9339	19759
Ethylbenzene	700	1867	18670	6336	5893	8662	18326
Ethylene Glycol	46744	1.68E+07	1.68E+08	57015467	53024384	77945844	164905834
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000339	0.000316	0.000463	0.000981
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000984	0.000915	0.00134	0.00284
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00231	0.00215	0.00315	0.00667
Hexachlorobutadiene	0.21	0.22	2.2	0.747	0.694	1.02	2.15

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<i>Parameter</i>	<i>Water and Fish Criterion</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Hexachlorocyclohexane (<i>alpha</i>)	0.0078	0.0084	0.084	0.0285	0.0265	0.0389	0.0824
Hexachlorocyclohexane (<i>beta</i>)	0.15	0.26	2.6	0.882	0.821	1.20	2.55
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.2	0.341	3.41	1.16	1.08	1.58	3.34
Hexachlorocyclopentadiene	10.7	11.6	116	39.4	36.6	53.8	113
Hexachloroethane	1.84	2.33	23.3	7.91	7.35	10.8	22.8
Hexachlorophene	2.05	2.90	29	9.84	9.15	13.4	28.4
4,4'-Isopropylidenediphenol	1092	15982	159820	54239	50443	74150	156876
Lead	1.15	3.83	38.3	68.5	63.7	93.6	198
Mercury	0.0122	0.0122	0.122	0.0414	0.0385	0.0566	0.119
Methoxychlor	2.92	3.0	30	10.2	9.47	13.9	29.4
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	3366628	3130964	4602516	9737296
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	35574	33083	48632	102889
Nickel	332	1140	11400	8502	7907	11623	24591
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	6357	5912	8690	18385
N-Nitrosodiethylamine	0.0037	2.1	21	7.13	6.63	9.74	20.6
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	14.3	13.3	19.4	41.2
Pentachlorobenzene	0.348	0.355	3.55	1.20	1.12	1.64	3.48
Pentachlorophenol	0.22	0.29	2.9	0.984	0.915	1.34	2.84
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.00217	0.00202	0.00296	0.00628
Pyridine	23	947	9470	3214	2989	4393	9295
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.815	0.757	1.11	2.35
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	89.4	83.2	122	258
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	950	884	1299	2748
Thallium	0.12	0.23	2.3	0.781	0.726	1.06	2.25
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0373	0.0347	0.0510	0.107
2,4,5-TP [Silvex]	50	369	3690	1252	1165	1712	3622
1,1,1-Trichloroethane	200	784354	7843540	2661923	2475589	3639115	7699080
1,1,2-Trichloroethane	5	166	1660	563	524	770	1629
Trichloroethylene [Trichloroethene]	5	71.9	719	244	227	333	705
2,4,5-Trichlorophenol	1039	1867	18670	6336	5893	8662	18326
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	56.0	52.1	76.5	161

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TPDES Permit No. WQ0005459000

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Acrylonitrile	373	453
Aldrin	0.0000372	0.0000452
Anthracene	4277	5193
Antimony	3478	4223
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	1886	2291
Benidine	0.347	0.421
Benzo(a)anthracene	0.0811	0.0985
Benzo(a)pyrene	0.00811	0.00985
Bis(chloromethyl)ether	0.891	1.08
Bis(2-chloroethyl)ether	139	168
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	24.5	29.7
Bromodichloromethane [Dichlorobromomethane]	893	1084
Bromoform [Tribromomethane]	3442	4180
Cadmium	N/A	N/A
Carbon Tetrachloride	149	181
Chlordane	0.00811	0.00985
Chlorobenzene	8889	10793
Chlorodibromomethane [Dibromochloromethane]	594	721
Chloroform [Trichloromethane]	24997	30354
Chromium (hexavalent)	1630	1979
Chrysene	8.18	9.93
Cresols [Methylphenols]	30207	36680
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00649	0.00788
4,4'-DDE	0.000422	0.000512
4,4'-DDT	0.00129	0.00157
2,4'-D	N/A	N/A
Danitol [Fenprothrin]	1536	1865
1,2-Dibromoethane [Ethylene Dibromide]	13.7	16.7
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	1932	2346
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	10714	13010
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	7.27	8.83
1,2-Dichloroethane	1182	1435
1,1-Dichloroethylene [1,1-Dichloroethene]	178996	217352
Dichloromethane [Methylene Chloride]	43302	52581
1,2-Dichloropropane	841	1021
1,3-Dichloropropene [1,3-Dichloropropylene]	386	469
Dicofol [Kelthane]	0.974	1.18
Dieldrin	0.0000649	0.0000788
2,4-Dimethylphenol	27397	33268
Di- <i>n</i> -Butyl Phthalate	300	364
Dioxins/Furans [TCDD Equivalents]	2.58E-07	3.14E-07
Endrin	0.0649	0.0788
Epichlorohydrin	6537	7938
Ethylbenzene	6063	7362
Ethylene Glycol	54562091	66253967
Fluoride	N/A	N/A
Heptachlor	0.000324	0.000394
Heptachlor Epoxide	0.000941	0.00114
Hexachlorobenzene	0.00220	0.00268
Hexachlorobutadiene	0.714	0.867

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
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TPDES Permit No. WQ0005459000

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Hexachlorocyclohexane (<i>alpha</i>)	0.0272	0.0331
Hexachlorocyclohexane (<i>beta</i>)	0.844	1.02
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	1.10	1.34
Hexachlorocyclopentadiene	37.6	45.7
Hexachloroethane	7.56	9.18
Hexachlorophene	9.41	11.4
4,4'-Isopropylidenediphenol	51905	63028
Lead	65.5	79.6
Mercury	0.0396	0.0481
Methoxychlor	9.74	11.8
Methyl Ethyl Ketone	3221761	3912139
Methyl <i>tert</i> -butyl ether [MTBE]	34042	41337
Nickel	8136	9880
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	6083	7386
N-Nitrosodiethylamine	6.82	8.28
N-Nitroso-di- <i>n</i> -Butylamine	13.6	16.5
Pentachlorobenzene	1.15	1.40
Pentachlorophenol	0.941	1.14
Polychlorinated Biphenyls [PCBs]	0.00207	0.00252
Pyridine	3075	3734
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.779	0.946
1,1,2,2-Tetrachloroethane	85.5	103
Tetrachloroethylene [Tetrachloroethylene]	909	1104
Thallium	0.746	0.907
Toluene	N/A	N/A
Toxaphene	0.0357	0.0433
2,4,5-TP [Silvex]	1198	1455
1,1,1-Trichloroethane	2547380	3093247
1,1,2-Trichloroethane	539	654
Trichloroethylene [Trichloroethene]	233	283
2,4,5-Trichlorophenol	6063	7362
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	53.5	65.0

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Appendix B
TDS, Chloride, and Sulfate Screening Calculations

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate
Menu 7 - Discharge to an Intermittent Stream with Perennial Pools

Screen the Perennial Pool Characteristics of the Stream

Applicant Name:	Wright City Water Supply Co.
Permit Number, Outfall:	05459-000, 001
Segment Number:	0611

Enter values needed for screening:		Data Source (edit if different)
QE - Average effluent flow	0.054 MGD	
QS - Stream harmonic mean flow	0.10 cfs	Critical conditions memo
QE - Average effluent flow	0.0836 cfs	Calculated
CA - TDS - ambient segment concentration	134 mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	19 mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	22 mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	250 mg/L	Latest EPA approved TSWQS, Appendix A
CC - chloride - segment criterion	125 mg/L	Latest EPA approved TSWQS, Appendix A
CC - sulfate - segment criterion	50 mg/L	Latest EPA approved TSWQS, Appendix A
CE - TDS - average effluent concentration	730 mg/L	Permit application
CE - chloride - average effluent concentration	170 mg/L	Permit application
CE - sulfate - average effluent concentration	44.7 mg/L	Permit application

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)] / [QE + QS]$$

Permit Limit Calculations

TDS

Calculate the WLA	WLA = [CC(QE+QS) - (QS)(CA)]/QE	388.84	
Calculate the LTA	LTA = WLA * 0.93	361.62	
Calculate the daily average	Daily Avg. = LTA * 1.47	531.58	
Calculate the daily maximum	Daily Max. = LTA * 3.11	1124.64	
Calculate 70% of the daily average	70% of Daily Avg. =	372.11	
Calculate 85% of the daily average	85% of Daily Avg. =	451.84	
No permit limitations needed if:	730 ≤	372.11	
Reporting needed if:	730 >	372.11	but ≤
Permit limits may be needed if:	730 >	451.84	

Permit limits may be needed for TDS

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Chloride

Calculate the WLA	WLA = $[CC(QE+QS) - (QS)(CA)]/QE$	251.87		
Calculate the LTA	LTA = WLA * 0.93	234.24		
Calculate the daily average	Daily Avg. = LTA * 1.47	344.33		
Calculate the daily maximum	Daily Max. = LTA * 3.11	728.48		
Calculate 70% of the daily average	70% of Daily Avg. =	241.03		
Calculate 85% of the daily average	85% of Daily Avg. =	292.68		
No permit limitations needed if:	170	≤	241.03	
Reporting needed if:	170	>	241.03	but ≤ 292.68
Permit limits may be needed if:	170	>	292.68	

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA = $[CC(QE+QS) - (QS)(CA)]/QE$	83.51		
Calculate the LTA	LTA = WLA * 0.93	77.67		
Calculate the daily average	Daily Avg. = LTA * 1.47	114.17		
Calculate the daily maximum	Daily Max. = LTA * 3.11	241.54		
Calculate 70% of the daily average	70% of Daily Avg. =	79.92		
Calculate 85% of the daily average	85% of Daily Avg. =	97.04		
No permit limitations needed if:	44.7	≤	79.92	
Reporting needed if:	44.7	>	79.92	but ≤ 97.04
Permit limits may be needed if:	44.7	>	97.04	

No permit limitations needed for sulfate

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Appendix C
Comparison of Effluent Limits

The following table is a summary of technology-based effluent limitations calculated/assessed in the draft permit (Technology-Based) and calculated/ assessed water quality-based effluent limitations (Water Quality-Based. Effluent limitations appearing in bold are the most stringent of the three and are included in the draft permit.

Outfall	Pollutant	Technology-Based		Water Quality-Based	
		Daily Avg	Daily Max	Daily Avg	Daily Max
		mg/L	mg/L	mg/L	mg/L
001	Flow, MGD	0.0540 MGD	Report, MGD	-	-
	Dissolved Aluminum ¹	-	-	Report	Report
	Total Aluminum ¹	-	-	Report	Report
	TDS ¹	N/A	Report	-	-
	Chloride ¹	N/A	Report	-	-
	Sulfate ¹	N/A	Report	-	-
	pH	6.0 SU, minimum	9.0 SU	-	-

¹ This monitoring requirement begins upon the date of issuance of permit and expires 58 months after date of permit issuance.