

This file contains the following documents:

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



Este archivo contiene los siguientes documentos:

- 1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
 - Inglés
 - Idioma alternativo (español)
- 2. Primer aviso (NORI, por sus siglas en inglés)
 - Inglés
 - Idioma alternativo (español)
- 3. Solicitud original

TCEQ

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 DOMESTIC WASTEWATER/STORMWATER

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

North Texas Municipal Water District (CN601365448) operates Sabine Creek Wastewater Treatment Plant (RN103888020), a domestic wastewater treatment plant. The facility is located at 1513 Crenshaw Road, in Royse City, Rockwall County, Texas 75189. The application is for a major amendment to request an expansion of the permitted flow from 7 MGD to 20 MGD.

Discharges from the facility are expected to contain Carbonaceous Biochemical Oxygen Demand (CBOD), Total Suspendid Solids (TSS, Ammonia Nitrogen, and E. coli. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7 Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application. Domestic wastewater is treated by fine screens, grit chambers, primary clarifiers, aeration basins, secondary clarifiers, tertiary disc filters, U.V. disinfection. Sludge from the clarifiers is processed with sludge holding tanks and screw presses. The dewatered sludge is disposed at the NTMWD 121 Regional Disposal Facility.

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

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

North Texas Municipal Water District (CN601365448) opera Sabine Creek Wastewater Treatment Plant (RN103888020), una planta de tratamiento de aguas residuals domesticas. La instalación está ubicada en 1513 Crenshaw Road, en Royse City, Condado de Rockwall, Texas 75189. La solicitud es para una enmienda importante para solicitor una expansión del flujo permitido de 7 MGD a 20 MGD.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonosa de cinco dias (CBOD5), total de solidos en suspensión (TSS), nitrógeno amoniacal, bacterias coliformes (E. coli). Los contaminantes potenciales adicionales se incluyen en el Informe técnico domestico 1.0, Sección 7. Análisis de Contaminantes de Efluentes Tratados y Hoja de Trabajo Domestico 4.0 en el paquete de solicitud de permiso. Aguas residuals domésticas está tratado por cribas finas, cámaras de arena, clarificadores primarios, cubetas de aireación, clarificadores secundarios, filtros de disco terciarios, desinfección UV. Los lodos de los clarificadores se procesan con tanques de retención de lodos y prensas de tornillo. Los lodos deshidratados se eliminan en la instalación regional de eliminación NTMWD 121.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0014469001

APPLICATION. North Texas Municipal Water District, P.O. Box 2408, Wylie, Texas 75098, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014469001 (EPA I.D. No. TX0126110) to authorize an increase in the discharge of treated wastewater to a volume not to exceed an annual average flow of 20,000,000 gallons per day. The domestic wastewater treatment facility is located at 1513 Crenshaw Drive, Royse City, in Rockwall County, Texas 75189. The discharge route is from the plant site to Parker Creek; thence to South Fork Sabine River; thence to Lake Tawakoni. TCEQ received this application on March 6, 2025. The permit application will be available for viewing and copying at C.F. Goodwin Public Library, Front Desk, 309 North Arch Street, Royse City, in Rockwall County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.32,32.923333&level=18

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from North Texas Municipal Water District at the address stated above or by calling Mr. Jerry Allen, Permitting Manager, at 469-626-4634.

Issuance Date: May 1, 2025

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0014469001

SOLICITUD. North Texas Municipal Water District, P.O. Box 2408, Wylie, Texas 75098, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEO) para modificar el Permiso No. WQ0014469001 (EPA I.D. No. TX 0126110) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 20,000,000 galones por día. La planta está ubicada en 1513 Crenshaw Drive, Royse City, en el Condado de Rockwall, Texas 75189. La ruta de descarga es del sitio de la planta al Parker Creek; de allí a South Fork Sabine River; de allí al lago Tawakoni. La TCEQ recibió esta solicitud el 6 de marzo de 2025. La solicitud para el permiso está disponible para leerla y copiarla en la Biblioteca Pública de C.F. Goodwin, 309 North Arch Street, Royse City, Texas. La solicitud (cualquier actualización y aviso inclusivo) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-<u>applications</u>. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.32,32.923333&level=18

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el

Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a

intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del North Texas Municipal Water District a la dirección indicada arriba o llamando a Mr. Jerry Allen, Permitting Manager, al 469-626-4634.

Fecha de emisión 1 de mayo de 2025



Regional. Reliable. Everyday.

March 12, 2025

Abesha Michael
Wastewater Permitting Section (MC-148)
Water Quality Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

VIA ELECTRONIC MAIL

Abesha.Michael@tceq.texas.gov

Re: Response to TCEQ Notice of Deficiency

Applicant Name: North Texas Municipal Water District (CN601365448)

Permit Number: WQ0014469001 (EPA I.D. No. TX0126110)

Site Name: Sabine Creek WWTP (RN103888020)

Type of Application: Major Amendment with Renewal

Dear Ms. Michael:

This letter is submitted regarding the above-referenced TPDES Domestic Wastewater Permit Application ("Application") associated with the North Texas Municipal Water District's ("NTMWD's") Sabine Creek Wastewater Treatment Plant ("Sabine Creek WWTP") in response to items noted in the March 10, 2025 Notice of Deficiency letter addressed to Jerry Allen. NTMWD offers the following comments for your consideration:

Request 1 (Section 1, item B, the cross-referenced affected landowners mailing list on page 12 of the administrative report: Thank you for the cross-reference, separate mailing list page, However, the mailing list shows 9 affected landowners names and mailing addresses while the landowners map delineated 7 affected landowners only. Please submit a revised mailing list or map. Please email a revised mailing labels accordingly, in Microsoft word format.)

Response:

The Landowners Map (Domestic Attachment 5) and the Landowners Cross-Reference List (Domestic Attachment 6), both depict 9 parcels. Parcels on the map are labeled 1-9 and the cross-reference list lists the 9 parcels and corresponding landowners. There are only 7 mailing labels because parcels 4, 5, and 6 are owned by the same landowner. In reference to the landowner mailing labels, the *Instruction for Completing the Domestic Wastewater Permit Application (TCEQ-10053-ins)* state: "Please eliminate duplicate names and addresses." Therefore, duplicate mailing labels were eliminated.

Regional Service Through Unity...Meeting Our Region's Needs Today and Tomorrow

Ms. Abesha Michael March 12, 2025 Page **2**

Request 2 (Review the portion of the NORI provided and indicate if it contains any errors or omissions.)

Response:

NTMWD has reviewed the portion of the NORI provided. The portion of the NORI stating the discharge route states: "The discharge route is from the plant site to Parker Creek; thence to South Fork Sabine River; thence to Lake Tawakoni (pending RWA confirmation)."

Please edit the statement as follows: "The discharge route is from the plant site to Parker Creek; thence to South Fork Sabine River; thence to Lake Tawakoni in Segment 0507 of the Sabine River Basin."

Request 3 (Please provide the translated Spanish NORI in a Microsoft Word document.)

A translated Spanish NORI, in Microsoft Word document format, has been attached to the NTMWD response email with this letter.

Should you have any questions or need additional information please contact me at jallen@ntmwd.com or 469-626-4634.

Sincerely

Jerry Allen

Permitting Manager

JA/sb

Enclosures

cc: Hunter Stephens, NTMWD
Joel Nickerson, NTMWD
R.J. Muraski, NTMWD

Lauren Kalisek, Lloyd Gosselink Rochelle & Townsend, P.C. Lora Naismith, Lloyd Gosselink Rochelle & Townsend, P.C.

Comisión de Calidad Ambiental del Estado de Texas



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

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

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hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones

de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del North Texas Municipal Water District a la dirección indicada arriba o llamando a Mr. Jerry Allen, Permitting Manager, al 469-626-4634.

Fecha de emisión	Date	notice	issued	\int
------------------	------	--------	--------	--------

Brooke T. Paup, *Chairwoman*Bobby Janecka, *Commissioner*Catarina R. Gonzales, *Commissioner*Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 6, 2025

Re: Confirmation of Submission of the Major Amendment with Renewal for Public Domestic Wastewater Authorization.

Dear Applicant:

This is an acknowledgement that you have successfully completed Major Amendment with Renewal for the Public Domestic Wastewater authorization.

ER Account Number: ER080008

Application Reference Number: 718630 Authorization Number: WQ0014469001

Site Name: Sabine Creek WWTP

Regulated Entity: RN103888020 - Sabine Creek Wastewater Treatment Plant

Customer(s): CN601365448 - North Texas Municipal Water District

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely, Applications Review and Processing Team Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit WQ0014469001

Site Information (Regulated Entity)

What is the name of the site to be authorized?

SABINE CREEK WWTP

Does the site have a physical address?

Yes

Physical Address

Number and Street 1513 CRENSHAW DR

City ROYSE CITY

State TX

ZIP 75189

County ROCKWALL

Latitude (N) (##.#####) 32.923333

Longitude (W) (-###.#####) -96.32

Primary SIC Code 4952

Secondary SIC Code

Primary NAICS Code 221320

Secondary NAICS Code

Regulated Entity Site Information

What is the Regulated Entity's Number (RN)? RN103888020

What is the name of the Regulated Entity (RE)?

SABINE CREEK WASTEWATER

TREATMENT PLANT

Does the RE site have a physical address?

Physical Address

Number and Street 1513 CRENSHAW DR

City ROYSE CITY

State TX

ZIP 75189

County ROCKWALL
Latitude (N) (##.#####) 32.923265

Longitude (W) (-###.#####) -96.320077

Facility NAICS Code

What is the primary business of this entity?

DOMESTIC WASTEWATER

TREATMENT

North T-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?

Owner

What is the applicant's Customer Number (CN)? CN601365448

Type of Customer Local Government

Full legal name of the applicant:

Legal Name North Texas Municipal Water District

Texas SOS Filing Number

Federal Tax ID 756004258

State Franchise Tax ID

State Sales Tax ID

Local Tax ID

DUNS Number 77608933

Number of Employees 501+

Independently Owned and Operated? Yes

I certify that the full legal name of the entity applying for this permit

Yes

has been provided and is legally authorized to do business in Texas.

Responsible Authority Contact

Organization Name North Texas Municipal Water District

Prefix

First JENNAFER

Middle P

Last COVINGTON

Suffix

Credentials PE

Title EXECUTIVE DIRECTOR/GENERAL

MANAGER

https://ida.tceq.texas.gov/steersstaff/index.cfm

Responsible Authority Mailing Address

Enter new address or copy one from list:

Address Type Domestic

Mailing Address (include Suite or Bldg. here, if applicable) PO BOX 2408

Routing (such as Mail Code, Dept., or Attn:)

City WYLIE

State TX

ZIP 75098

Phone (###-####) 9724425405

Extension

Alternate Phone (###-###-###)

Fax (###-###-###)

E-mail JCOVINGTON@NTMWD.COM

Billing Contact

Responsible contact for receiving billing statements:

Select the permittee that is responsible for payment of the annual fee. CN601365448, North Texas Municipal

Water District

Organization Name NORTH TEXAS MUNICIPAL WATER

DISTRICT

Prefix

First HUNTER

Middle

Last STEPHENS

Suffix

Credentials

Title DIRECTOR OF WASTEWATER

Enter new address or copy one from list:

Mailing Address

Address Type Domestic

Mailing Address (include Suite or Bldg. here, if applicable) PO BOX 2408

Routing (such as Mail Code, Dept., or Attn:)

City WYLIE

State TX

ZIP 75098

Phone (###-####) 4696264921

Extension

Alternate Phone (###-###-###)

Fax (###-###-###)

E-mail HSTEPHENS@NTMWD.COM

Application Contact

Person TCEQ should contact for questions about this application:

Same as another contact?

Organization Name NORTH TEXAS MUNICIPAL WATER

DISTRICT

Prefix MR

First JERRY

Middle

Last ALLEN

Suffix

Credentials

Title PERMITTING MANAGER

Enter new address or copy one from list:

Mailing Address

https://ida.tceq.texas.gov/steersstaff/index.cfm

Address Type Domestic

Mailing Address (include Suite or Bldg. here, if applicable) PO BOX 2408

Routing (such as Mail Code, Dept., or Attn:)

City

State TX

ZIP 75098

Phone (###-####) 4696264634

Extension

Alternate Phone (###-###-###)

Fax (###-###-###)

E-mail JALLEN@NTMWD.COM

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?

Application Contact

Organization Name NORTH TEXAS MUNICIPAL WATER

DISTRICT

Prefix MR

First JERRY

Middle

Last ALLEN

Suffix

Credentials

Title PERMITTING MANAGER

Enter new address or copy one from list:

Mailing Address

Address Type Domestic

Mailing Address (include Suite or Bldg. here, if applicable) PO BOX 2408

Routing (such as Mail Code, Dept., or Attn:)

City WYLIE

State TX

ZIP 75098

Phone (###-###) 4696264634

Extension

Alternate Phone (###-###-###)

Fax (###-###-###)

E-mail JALLEN@NTMWD.COM

DMR Contact

Person responsible for submitting Discharge Monitoring Report

Same as another contact?

Billing Contact

Organization Name NORTH TEXAS MUNICIPAL WATER

DISTRICT

Prefix

First HUNTER

Middle

Last STEPHENS

Suffix

Credentials

Title DIRECTOR OF WASTEWATER

Enter new address or copy one from list:

Mailing Address:

Address Type Domestic

Mailing Address (include Suite or Bldg. here, if applicable) PO BOX 2408

Routing (such as Mail Code, Dept., or Attn:)

City WYLIE
State TX

ZIP 75098

Phone (###-####) 4696264921

Extension

Alternate Phone (###-###-###)

Fax (###-###-###)

E-mail HSTEPHENS@NTMWD.COM

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact? Technical Contact

2) Organization Name NORTH TEXAS MUNICIPAL WATER

DISTRICT

3) Prefix MR

4) First JERRY

5) Middle

6) Last ALLEN

7) Suffix

8) Credentials

9) Title PERMITTING MANAGER

Mailing Address

10) Enter new address or copy one from list

11) Address Type Domestic

11.1) Mailing Address (include Suite or Bldg. here, if applicable) PO BOX 2408

11.2) Routing (such as Mail Code, Dept., or Attn:)

11.3) City WYLIE

11.4) State TX

11.5) ZIP 75098

12) Phone (###-###) 4696264634

13) Extension

14) Alternate Phone (###-###-###)

15) Fax (###-###-###)

16) E-mail JALLEN@NTMWD.COM

Section 2# Permit Contact

Permit Contact#: 2

Person TCEQ should contact throughout the permit term.

1) Same as another contact?

2) Organization Name NORTH TEXAS MUNICIPAL WATER

DISTRICT

3) Prefix

4) First SARAH

5) Middle

6) Last BURNS

7) Suffix

8) Credentials

9) Title PERMITTING SUPERVISOR

Mailing Address

10) Enter new address or copy one from list

11) Address Type Domestic

11.1) Mailing Address (include Suite or Bldg. here, if applicable) PO BOX 2408

11.2) Routing (such as Mail Code, Dept., or Attn:)

11.3) City WYLIE

11.4) State TX

11.5) ZIP 75098

12) Phone (###-####) 4696264632

13) Extension

14) Alternate Phone (###-###-###)

15) Fax (###-###-###)

16) E-mail SBURNS@NTMWD.COM

Owner Information

Owner of Treatment Facility

- 1) Prefix
- 2) First and Last Name

3) Organization Name NORTH TEXAS MUNICIPAL WATER

DISTRICT

WYLIE

4) Mailing Address P.O. BOX 2408

5) City

6) State TX

7) Zip Code 75098

8) Phone (###-####) 9724425405

9) Extension

10) Email JCOVINGTON@NTMWD.COM

11) What is ownership of the treatment facility? Public

Owner of Land (where treatment facility is or will be)

12) Prefix

13) First and Last Name

14) Organization Name NORTH TEXAS MUNICIPAL WATER

DISTRICT

15) Mailing Address P.O. BOX 2408

16) City WYLIE

17) State TX

18) Zip Code 75098

19) Phone (###-####) 9724425405

20) Extension

21) Email JCOVINGTON@NTMWD.COM

22) Is the landowner the same person as the facility owner or co-

applicant?

General Information Renewal-Amendment

1) Current authorization expiration date: 06/22/2026

2) Current Facility operational status: Active

3) Is the facility located on or does the treated effluent cross American No

Indian Land?

4) What is the application type that you are seeking?

Major Amendment with Renewal

4.1) Describe the proposed changes: Amend the currently permitted flow

from 7 MGD to 20 MGD. The

requested phasing includes Existing/ Interim I 7 MGD, Interim II 11 MGD,

Final Phase 20 MGD

Public Domestic Wastewater 5) Current Authorization type:

5.1) What is the proposed total flow in MGD discharged at the facility? 20

5.2) Select the applicable fee >= 1.0 MGD - Major Amendment -

\$2,050

Yes

Yes

No

6) What is the classification for your authorization? **TPDES**

6.1) What is the EPA Identification Number? TX0126110

accurate?

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

6.4) City nearest the outfall(s): Royse City

6.5) County where the outfalls are located: **ROCKWALL**

6.6) Is or will the treated wastewater discharge to a city, county, or No state highway right-of-way, or a flood control district drainage ditch?

6.7) Is the daily average discharge at your facility of 5 MGD or more? Yes

6.7.1) Provide the names of all counties located within 100 statute HUNT|ROCKWALL|VAN ZANDT|

miles downstream of the point(s) of discharge: WOODISMITH

company and get paid for service regarding this application?

6.2) Is the wastewater treatment facility location in the existing permit

7) Did any person formerly employed by the TCEQ represent your

Public Notice Information

Individual Publishing the Notices

1) Prefix

2) First and Last Name JERRY ALLEN

3) Credential

PERMITTING MANAGER 4) Title

5) Organization Name

6) Mailing Address PO BOX 2408

7) Address Line 2

8) City **WYLIE**

TX 9) State

10) Zip Code 75098

11) Phone (###-###-###) 4696264634

12) Extension

13) Fax (###-###-###)

14) Email JALLEN@NTMWD.COM

Contact person to be listed in the Notices

15) Prefix MR

16) First and Last Name JERRY ALLEN

17) Credential

18) Title PERMITTING MANAGER

19) Organization Name

20) Phone (###-####) 4696264634

21) Fax (###-###-###)

22) Email JALLEN@NTMWD.COM

Bilingual Notice Requirements

23) Is a bilingual education program required by the Texas Education Yes
Code at the elementary or middle school nearest to the facility or

proposed facility?

23.1) Are the students who attend either the elementary school or the Yes

middle school enrolled in a bilingual education program at that school?

23.2) Do the students at these schools attend a bilingual education No program at another location?

23.3) 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)?

23.4) Which language is required by the bilingual program? SPANISH

Section 1# Public Viewing Information

County#: 1

1) County ROCKWALL

2) Public building name C.F. GOODWIN PUBLIC LIBRARY

No

3) Location within the building FRONT DESK

4) Physical Address of Building 309 NORTH ARCH STREET

5) City ROYSE CITY

6) Contact Name HERLDINE RADLEY

7) Phone (###-###) 9726352772

8) Extension

9) Is the location open to the public?

Plain Language

1) Plain Language

[File Properties]

File Name LANG_AR-1 Plain Language Summary.pdf

Hash 7BA0AA039CA7C407CF8E034AE65D00B9E6C304B4D979FECDF115A9342728FF9B

MIME-Type application/pdf

https://ida.tceq.texas.gov/steersstaff/index.cfm

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)

[File Properties]

File Name SPIF_AR-2 SPIF.pdf

Hash 8B476CD8541312355FB755BC9899C2D2E1F5BC8F527A352A8E545DBF23A986E4

MIME-Type application/pdf

Domestic Attachments

1) Attach an 8.5"x11", reproduced portion of the most current and original USGS Topographic Quadrangle Map(s) that meets the 1:24,000 scale.

[File Properties]

File Name MAP Domestic Attachment 1 - USGS

Topographic Map.pdf

Hash D2C4661FBC06A7B62B64A395590E0BC1731B7543F8F86AA254E82ECBBAE067EB

MIME-Type application/pdf

2) Public Involvement Plan attachment (TCEQ Form 20960)

[File Properties]

File Name PIP Domestic Attachment 2 - PIP Form.pdf

Hash A2F2B8CCC84C86E43DD927B3827EF3CE610FC91411975F34E5BAED235053549B

MIME-Type application/pdf

3) Administrative Report 1.1

[File Properties]

File Name ARPT Domestic Attachment 3 - Administrative

Report 1.1.pdf

Hash 2761FE64521C64B2F39545BF302B8EFFEBE0BC6F459A947A60C0DBA9A0F08854

MIME-Type application/pdf

4) I confirm that all required sections of Technical Report 1.0 are Yes

complete and will be included in the Technical Attachment.

4.1) I confirm that Technical Report 1.1 is complete and included in the

Technical Attachment.

4.2) I confirm that Worksheet 2.0 (Receiving Waters) is complete and Yes

included in the Technical Attachment.

4.3) Are you planning to include Worksheet 2.1 (Stream Physical Yes

Characteristics) in the Technical Attachment?

4.4) Are you planning to include Worksheet 4.0 (Pollutant Analyses Yes

Requirements) in the Technical Attachment?

4.5) Are you planning to include Worksheet 5.0 (Toxicity Testing

Requirements) in the Technical Attachment?

4.6) I confirm that Worksheet 6.0 (Industrial Waste Contribution) is

complete and included in the Technical Attachment.

4.7) Are you planning to include Worksheet 7.0 (Class V Injection Well

Inventory/Authorization Form) in the Technical Attachment?

4.8) Technical Attachment

[File Properties]

File Name TECH_Domestic Attachment 4 - Technical

Reports.pdf

Yes

Yes

No

Hash E2902289E04BE9BD84C023AF96366141C0E3F0CF6E6E9CF5521D374E159D8A05

MIME-Type application/pdf

5) Affected Landowners Map

[File Properties]

File Name LANDMP_Domestic Attachment 5- Landowners

Map.pdf

Hash E406E04C25B7D3F42B391BB36D0711AD7DEE2F0A9B08DA36FC07E5AA0E087E2D

MIME-Type application/pdf

6) Landowners Cross Reference List

[File Properties]

File Name LANDCRL_Domestic Attachment 6 - Landowner

Cross Reference List.pdf

Hash 1BA16A56C030120F23973E889EA48024E0A3D0D55FE9DA33FDD3851BA70562F8

MIME-Type application/pdf

7) Landowner Avery Template

[File Properties]

File Name LANDAT_Sabine Creek WWTP Landowner

Labels.docx

Hash F6919FAE9200FEDBF2154B4A0D9131F08991593368B4957D90354FD59B4222FF

MIME-Type application/vnd.openxmlformats-

officedocument.wordprocessingml.document

8) Buffer Zone Map

[File Properties]

File Name BUFF_ZM_Domestic Attachment 8 - Buffer Zone

Map.pdf

Hash F1727EB1AD864BE1DB6D7864F34EF3229A51262DA929A2DA0AE15CD3B0D21D7B

MIME-Type application/pdf

9) Flow Diagram

[File Properties]

File Name FLDIA_Domestic Attachment 9 - Flow

Diagram.pdf

Hash CA0E40250788C151000EEE12CE01398A647C80B7F0637406259DEE7255A97B3A

MIME-Type application/pdf

10) Site Drawing

[File Properties]

File Name SITEDR_Domestic Attachment 10 - Site

Drawing.pdf

Hash 7F49AB029D73CE0ED22769E9F3B78AFEC117FFAB5C9BFAB5CEFC5687E41E8222

MIME-Type application/pdf

11) Original Photographs

[File Properties]

File Name ORIGPH_Domestic Attachment 11 - Original

Photographs.pdf

Hash 99E4C5FFC8E708B41979BB7F2AAEDFBE9AA4FB931782265EAFC508C2B7F3B41F

MIME-Type application/pdf

12) Design Calculations

[File Properties]

File Name DES_CAL_Domestic Attachment 12 - Design

Calculations.pdf

Hash 3A61461C6CD1E4ABCFF469F4C3734A0852C003E61E8A3E18706472415EBB3181

MIME-Type application/pdf

13) Solids Management Plan

[File Properties]

File Name SMP_Domestic Attachment 13 - Solids

Management Plan.pdf

Hash 3422A3AC8243B53CFA490E6647A70D94D3512DD362C6E25FDB83492319059069

MIME-Type application/pdf

14) Water Balance

[File Properties]

File Name WB_Domestic Attachment 14 - Water

Balance.pdf

Hash A50E9AEBDE6E9567F32A9C27573BFBD9A4D77899E2A6969802EE05D32F8ABAD6

MIME-Type application/pdf

15) Other Attachments

[File Properties]

File Name OTHER_Domestic Attachment 15 - Other

Attachments.pdf

Hash EF57CFAE530073E1B717ABDFCA04718C32C4BC96C5891C9CE9D76494678B0A55

MIME-Type application/pdf

Certification

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

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

- 1. I am Jennafer Covington, the owner of the STEERS account ER108121.
- 2. I have the authority to sign this data on behalf of the applicant named above.
- 3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
- 4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
- 5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
- 6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
- 7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
- 8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0014469001.
- 9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Jennafer Covington OWNER

Customer Number: CN601365448

Legal Name: North Texas Municipal Water District

Account Number: ER108121
Signature IP Address: 174.244.35.5

Signature Date: 2025-03-05

Signature Hash: B27378DF90A45F1EE5D3A76C993DFA2A477E4EAF0E92A4826303FA58ED8725E5

Form Hash Code at time 7F37BD67C7E3A788BBBD4B3EDF67F171E724EF648C8511CA76750D5127E1A87B

of Signature:

Fee Payment

Transaction by: The application fee payment transaction was

made by JOEL NICKERSON

Paid by: The application fee was paid by JOEL

NICKERSON

Fee Amount: \$2000.00

Paid Date: The application fee was paid on 2024-12-20

Transaction/Voucher number: The transaction number is 582EA000640336

and the voucher number is 737435

Submission

Reference Number: The application reference number is 718630

Submitted by: The application was submitted by ER080008/

Sarah Burns

Submitted Timestamp: The application was submitted on 2025-03-06 at

09:21:37 CST

Submitted From: The application was submitted from IP address

209.116.250.114

Confirmation Number: The confirmation number is 637295

Steers Version: The STEERS version is 6.88

Permit Number: The permit number is WQ0014469001

Additional Information

Application Creator: This account was created by Sarah Burns

DOMESTIC ATTACHMENT 3 ADMINISTRATIVE REPORT 1.1

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A.		ndicate by a check mark that the landowners map or drawing, with scale, includes the Collowing information, as applicable: See Domestic Attachment 5					
	\boxtimes	The applicant's property boundaries					
	\boxtimes	The facility site boundaries within the applicant's property boundaries					
	\boxtimes	The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone					
		The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)					
	\boxtimes	The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream					
		The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge					
		The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides					
		The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property					
		The property boundaries of all landowners surrounding the effluent disposal site					
		The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located					
		The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located					
В.	⊠ addr	Indicate by a check mark that a separate list with the landowners' names and mailing resses cross-referenced to the landowner's map has been provided. See Domestic Attachment 6					
C.	Indi	cate by a check mark in which format the landowners list is submitted:					
		☐ USB Drive ☐ Four sets of labels ☐ See Domestic Attachment 7					
D.	Prov	ride the source of the landowners' names and mailing addresses: Rockwall County CAD					
E.	As required by <i>Texas Water Code § 5.115</i> , is any permanent school fund land affected by this application?						
		□ Yes ⊠ No					

	If you	es, provide the location and foreseeable impacts and effects this application has on the l(s):
	N/A	
Se	ctic	on 2. Original Photographs (Instructions Page 38)
		original ground level photographs. Indicate with checkmarks that the following ation is provided. See Domestic Attachment 11
	\boxtimes	At least one original photograph of the new or expanded treatment unit location
		At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
		At least one photograph of the existing/proposed effluent disposal site
	\boxtimes	A plot plan or map showing the location and direction of each photograph
Se	ctic	on 3. Buffer Zone Map (Instructions Page 38)
A.	info	Ger zone map. Provide a buffer zone map on 8.5×11 -inch paper with all of the following rmation. The applicant's property line and the buffer zone line may be distinguished by ag dashes or symbols and appropriate labels. See Domestic Attachment 8
		The required buffer zone; and Each treatment unit; and
В.		Fer zone compliance method. Indicate how the buffer zone requirements will be met. ck all that apply.
		⊠ Ownership
		⊠ Restrictive easement
	[Nuisance odor control
	[□ Variance
C.		uitable site characteristics. Does the facility comply with the requirements regarding uitable site characteristic found in 30 TAC § 309.13(a) through (d)?
	[⊠ Yes □ No

ATTACHMENT AR-1 PLAIN LANGUAGE SUMMARY

TFXAS 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 <u>Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H</u>. 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 DOMESTIC WASTEWATER/STORMWATER

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

North Texas Municipal Water District (CN601365448) operates Sabine Creek Wastewater Treatment Plant (RN103888020), a domestic wastewater treatment plant. The facility is located at 1513 Crenshaw Road, in Royse City, Rockwall County, Texas 75189. The application is for a major amendment to request an expansion of the permitted flow from 7 MGD to 20 MGD.

Discharges from the facility are expected to contain Carbonaceous Biochemical Oxygen Demand (CBOD), Total Suspendid Solids (TSS, Ammonia Nitrogen, and E. coli. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7 Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application. Domestic wastewater is treated by fine screens, grit chambers, primary clarifiers, aeration basins, secondary clarifiers, tertiary disc filters, U.V. disinfection. Sludge from the clarifiers is processed with sludge holding tanks and screw presses. The dewatered sludge is disposed at the NTMWD 121 Regional Disposal Facility.

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

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

North Texas Municipal Water District (CN601365448) opera Sabine Creek Wastewater Treatment Plant (RN103888020), una planta de tratamiento de aguas residuals domesticas. La instalación está ubicada en 1513 Crenshaw Road, en Royse City, Condado de Rockwall, Texas 75189. La solicitud es para una enmienda importante para solicitor una expansión del flujo permitido de 7 MGD a 20 MGD.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonosa de cinco dias (CBOD5), total de solidos en suspensión (TSS), nitrógeno amoniacal, bacterias coliformes (E. coli). Los contaminantes potenciales adicionales se incluyen en el Informe técnico domestico 1.0, Sección 7. Análisis de Contaminantes de Efluentes Tratados y Hoja de Trabajo Domestico 4.0 en el paquete de solicitud de permiso. Aguas residuals domésticas está tratado por cribas finas, cámaras de arena, clarificadores primarios, cubetas de aireación, clarificadores secundarios, filtros de disco terciarios, desinfección UV. Los lodos de los clarificadores se procesan con tanques de retención de lodos y prensas de tornillo. Los lodos deshidratados se eliminan en la instalación regional de eliminación NTMWD 121.

DOMESTIC ATTACHMENT 2 PUBLIC INVOLVEMENT PLAN FORM

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

New Permit or Registration Application

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

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

Section 2. Secondary Screening

Requires public notice,

Considered to have significant public interest, and

Located within any of the following geographical locations:

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

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

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

TCEQ-20960 (02-09-2023)

Section 3. Application Information

Type of Application (check all that apply):

Air Initial Federal Amendment Standard Permit Title V

Waste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire

Radioactive Material Licensing Underground Injection Control

Water Quality

Texas Pollutant Discharge Elimination System (TPDES)

Texas Land Application Permit (TLAP)

State Only Concentrated Animal Feeding Operation (CAFO)

Water Treatment Plant Residuals Disposal Permit

Class B Biosolids Land Application Permit

Domestic Septage Land Application Registration

Water Rights New Permit

New Appropriation of Water

New or existing reservoir

Amendment to an Existing Water Right

Add a New Appropriation of Water

Add a New or Existing Reservoir

Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

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

Section 5. Community and Demographic Information

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

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

language notice is necessary. Please provide the following information.				
(City)				
(County)				
(Census Tract) Please indicate which City	h of these three is the County	ne level used for gathering the following information. Census Tract		
(a) Percent of people	e over 25 years of age	e who at least graduated from high school		
-		r the specified location ercent of population by race within the specified location		
(d) Percent of Lingui	stically Isolated Hous	seholds by language within the specified location		
(e) Languages comm	only spoken in area b	by percentage		
(f) Community and/o	or Stakeholder Group	ps		
(g) Historic public in	iterest or involvemen	nt		

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

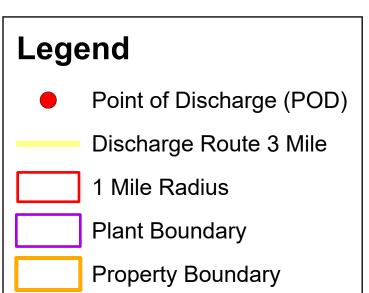
Other (specify)

DOMESTIC ATTACHMENT 1 USGS TOPOGRAPHIC MAP



Sabine Creek WWTP USGS Topographic Map





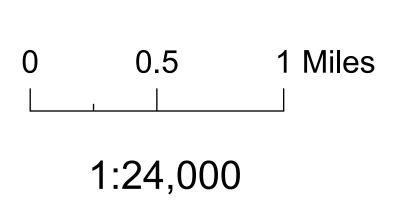
1 000-meter grid:Universal Transverse Mercator, Zone 14S This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government

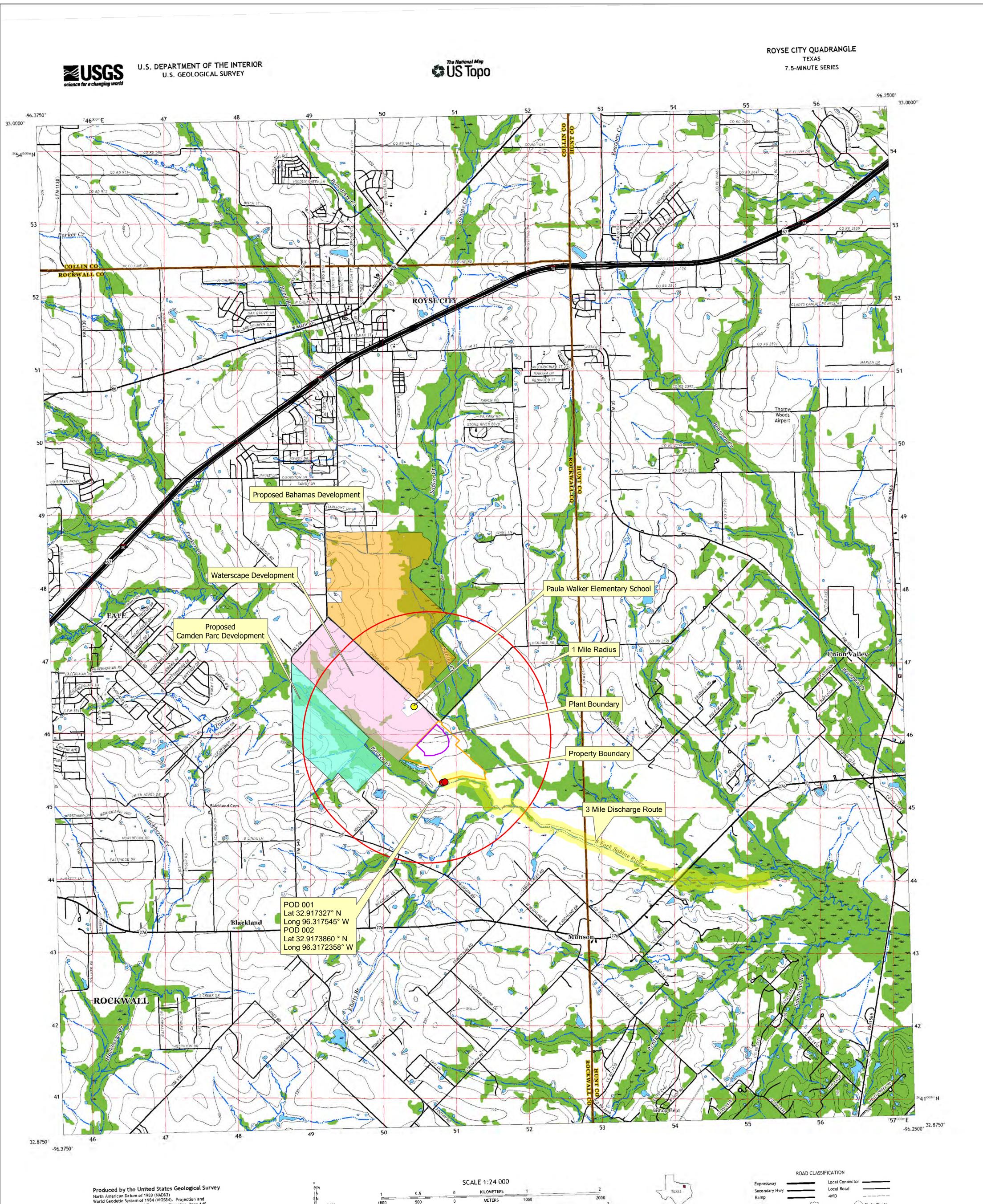
reservations may not be shown. Obtain permission before

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

entering private lands.

Note: There are no springs, monitoring wells or sewage treatment facilities located within one mile of the Sabine Creek WWTP. There are no effluent disposal sites, sludge disposal, or storage/evaporation/holding ponds associated with this WWTP.





FEET

CONTOUR INTERVAL 10 FEET

This map was produced to conform with the

National Geospatial Program US Topo Product Standard, 2011.

A metadata file associated with this product is draft version 0.6.18

QUADRANGLE LOCATION

ADJOINING QUADRANGLES

2 Josephine 3 Greenville SW

4 Rockwall 5 Quinlan 6 Forney North

7 Terrell North 8 Poetry

ROYSE CITY, TX

2019

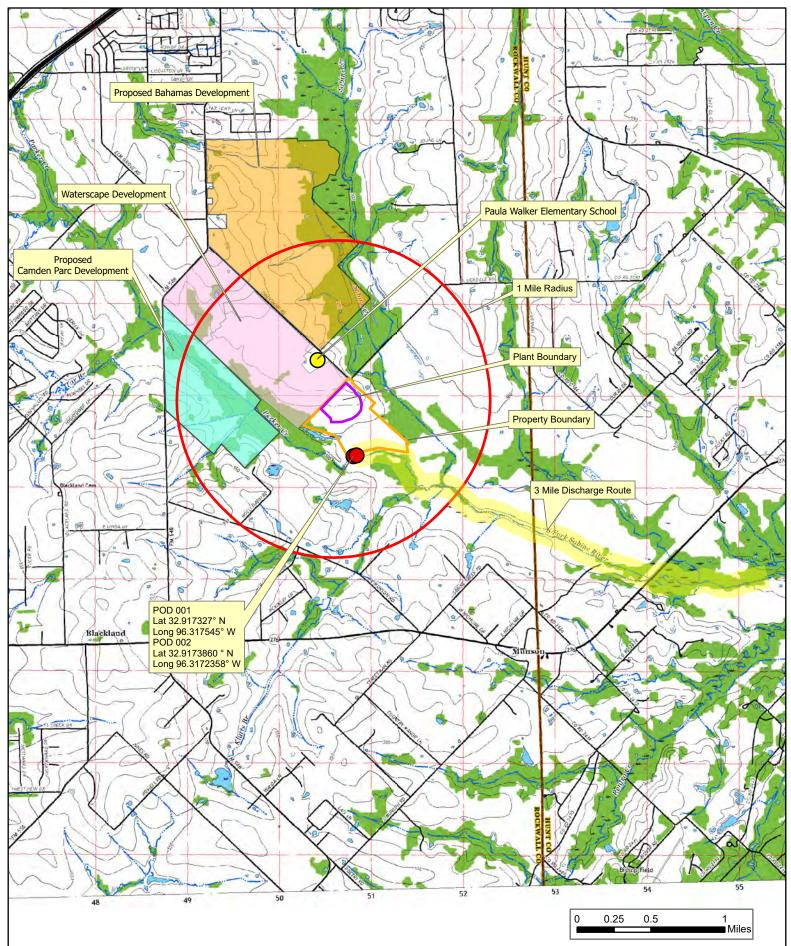




Sabine Creek WWTP USGS Topographic Map



Note: There are no springs, monitoring wells or sewage treatment facilities located within one mile of the Sabine Creek WWTP. There are no effluent disposal sites, sludge disposal, or storage/evaporation/holding ponds associated with this WWTP.



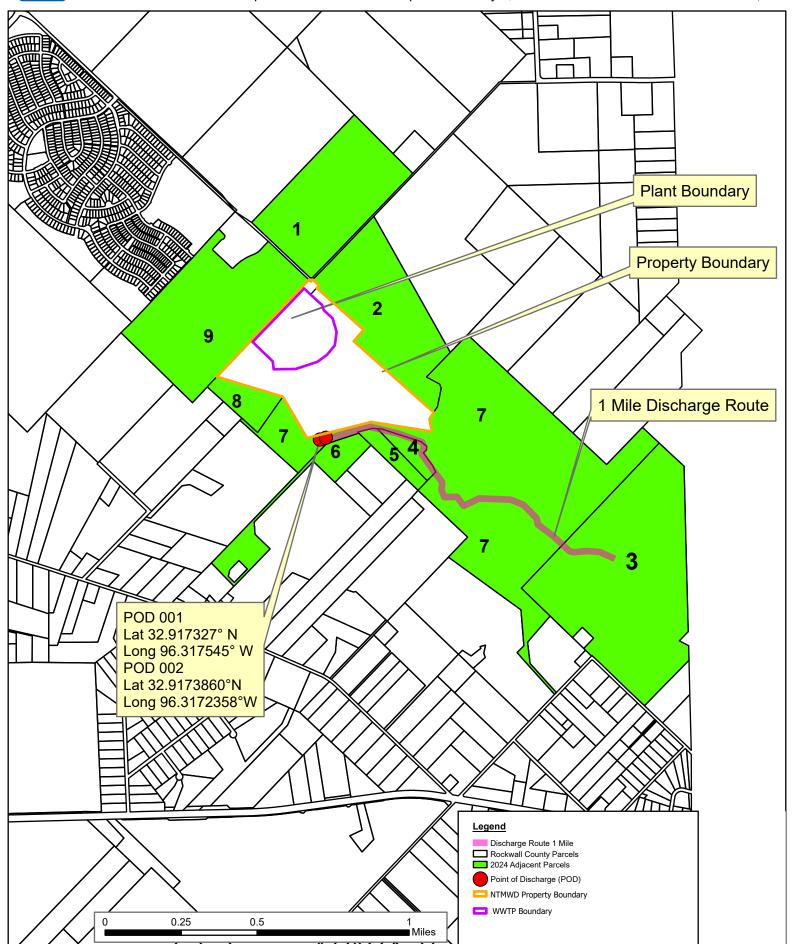
ATTACHMENT 5 LANDOWNERS MAP



Sabine Creek WWTP Adjacent Landowners Map



This map was created using Rockwall CAD parcel data that was last updated on May 9, 2024.

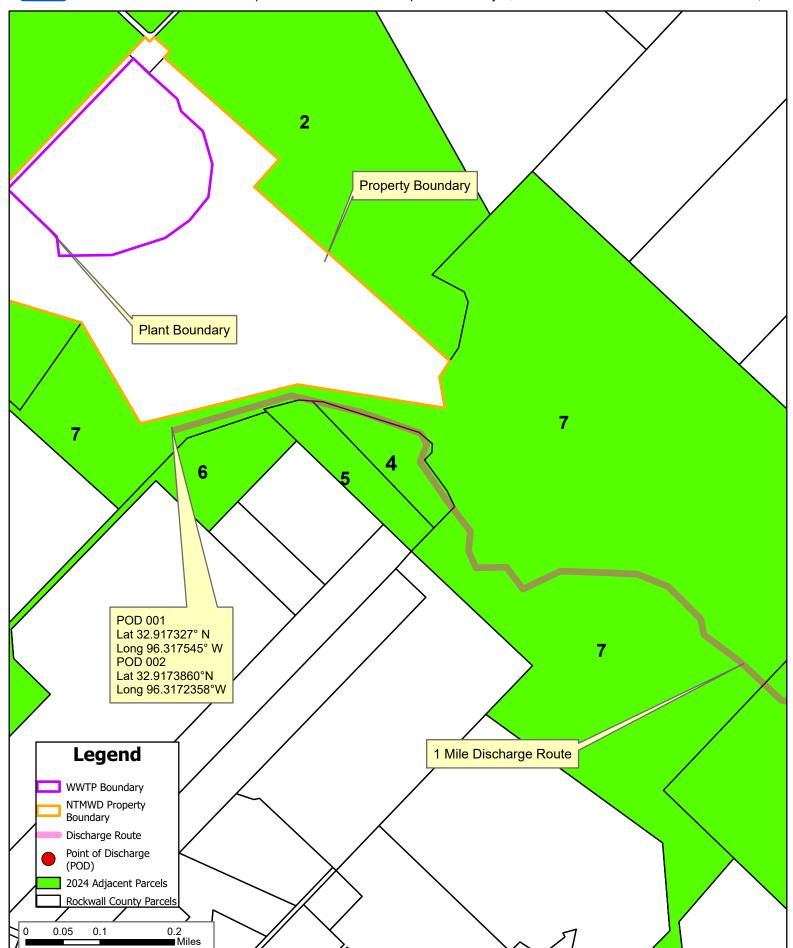




Sabine Creek WWTP Adjacent Landowners Map (Zoom)



This map was created using Rockwall CAD parcel data that was last updated on May 9, 2024.



ATTACHMENT 6 LANDOWNER CROSS REFERENCE LIST

SABINE CREEK WWTP Cross-referenced Landowners List						
MapID	Property ID	OWNER NAME	MAILING ADDRESS	CITY	STATE	ZIP
1	10421	CRENSHAW JOHN WESLEY	PO BOX 905	FORNEY	TX	75126
2	11172	BOYD DAVID D & LORENA G BOYD	2613 SPRING RAIN DR	MESQUITE	TX	75181
3	112925	MCKOWN MIKE & KAY	780 SABINE CREEK RD	ROYSE CITY	TX	75189
4	32774	HARVEY JASON AND NICOLE AND GARY HARVEY AND KENETA HARVEY AND CLAY AINLEY AND LETHA	1076 N MUNSON RD	ROYSE CITY	TX	75189
5	32775	HARVEY JASON AND NICOLE AND GARY HARVEY AND KENETA HARVEY AND CLAY AINLEY AND LETHA	1076 N MUNSON RD	ROYSE CITY	TX	75189
6	11842	HARVEY JASON AND NICOLE AND GARY HARVEY AND KENETA HARVEY AND CLAY AINLEY AND LETHA	1076 N MUNSON RD	ROYSE CITY	TX	75189
7	11573	HIDDEN LAKE @ SABINE CREEK LLC	1237 WALES DRIVE	ROCKWALL	TX	75032
8	50007	CARSON ROBERT C & EDITH L	700 HOLLI DAWN	ROYSE CITY	TX	75189
9	11701	WATERSCAPE 4 LLC	8200 DOUGLAS AVE S TE 300	DALLAS	TX	75225

This list was created on May 10, 2024 using Rockwall CAD parcel data that was last updated on May 9, 2024.

APPLICANT: NORTH TEXAS MUNICIPAL WATER DISTRICT [SABINE CREEK WWTP] PERMIT: WQ0014469001

HIDDEN LAKE @ SABINE CREEK 1237 WALES DR ROCKWALL TX 75032

> MIKE & KAY MCKOWN 780 SABINE CREEK RD ROYSE CITY TX 75189

DAVID & LORENA BOYD 2613 SPRING RAIN DR MESQUITE TX 75181

JASON & NICOLE HARVEY GARY & KENETA HARVEY CLAY & LETHLA AINLEY 1076 N MUNSON RD ROYSE CITY TX 75189

JOHN WESLEY CRENSHAW PO BOX 905 FORNEY TX 75126 WATERSCAPE 4 LLC 8200 DOUGLAS AVE SUITE 300 DALLAS TX 75225

ROBERT & EDITH CARSON 700 HOLLI DAWN RD ROYSE CITY TX 75189

ATTACHMENT 11 ORIGINAL PHOTOGRAPHS

Photo #1



Photo #2



*7 MGD construction in progress

Photo #3



*7 MGD construction in progress

Photo #4



*7 MGD construction in progress



*7 MGD construction in progress



*7 MGD construction in progress



*7 MGD construction in progress

Photo #8: New Outfall (Upstream)

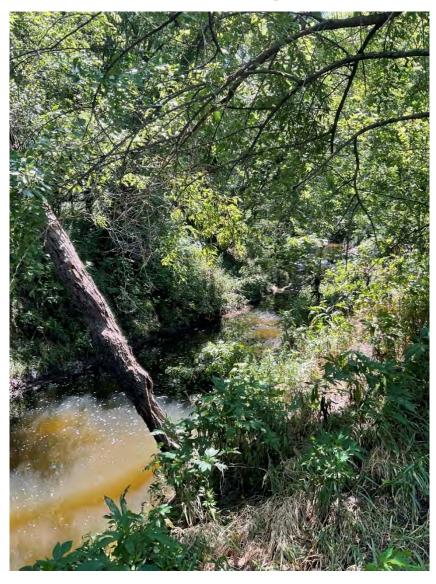


Photo #9: New Outfall (Downstream)

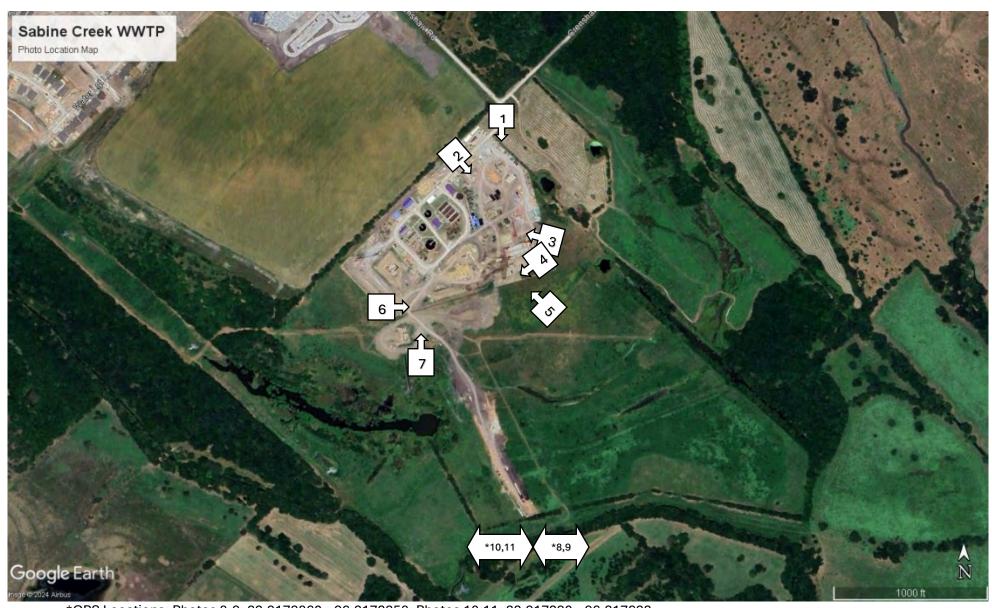


Photo # 10: Existing Outfall (Upstream)



Photo #11: Existing Outfall (Downstream)





*GPS Locations: Photos 8-9: 32.9173860, -96.3172358; Photos 10-11: 32.917290, -96.317632
Sabine Creek Wastewater Treatment Plant
2025 Domestic Wastewater Permit Application for Major Amendment with Renewal

ATTACHMENT AR-2 SUPPLEMENTAL PERMIT INFORMATION FORM

DOMESTIC WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: See Attachment AR-2

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

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:	
Application type:RenewalMajor AmendmentMinor Amen	dmentNew
County: Segment Number:	
Admin Complete Date:	
Agency Receiving SPIF:	
Texas Historical Commission U.S. Fish and Wildl	ife
Texas Parks and Wildlife Department U.S. Army Corps of	Engineers
This form applies to TPDES permit applications only. (Instructions, Pag	ge 53)
Complete this form as a separate document. TCEQ will mail a copy to each our agreement with EPA. If any of the items are not completely addressed is needed, we will contact you to provide the information before issuing teach item completely.	or further information
Do not refer to your response to any item in the permit application for attachment for this form separately from the Administrative Report of the application will not be declared administratively complete without this Stranger completed in its entirety including all attachments. Questions or comment may be directed to the Water Quality Division's Application Review and I email at	

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: Jerry Allen

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: <u>Permitting Manager</u> Mailing Address: <u>P.O. Box</u>

City, State, Zip Code: Wylie, Texas 75098

Phone No.: <u>469-626-4634</u> Ext.: <u>N/A</u> Fax No.: <u>N/A</u>

E-mail Address: <u>jallen@ntmwd.com</u>

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

please list the owner of the property.		
<u>N/A</u>		

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.

Sabine WWTP discharges into Parker Creek. Approximately 0.8 miles downstream from the outfall, Parker Creek converges with Sabine Creek at the South Fork Sabine River (Segment No. 0507G); thence to Lake Tawakoni (Segment No. 0507).

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). See Attachment 1

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):

About 30 acres will be impacted during construction and the depth of excavation will be about 25 feet in depth. There are no caves or karst features on the property.

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

The property is a wastewater treatment plant and is actively under construction to expand the WWTP to the permitted 7 MGD. The areas not impacted by construction have grass covering unpaved areas within fenced boundaries. Unpaved roads exist at the site providing access to buildings and facilities. The portion of the property without facilities or active construction is comprised of grass covering and the remaining area with trees, shrubs and ponds.

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:

The plant was originally constructed in 2006 with 1.5 MGD annual average daily flow (AADF) capacity, and subsequently expanded to 3 MGD AADF with a 9.0 MGD peak two-hour flow (P2HF) in 2019. The plant is currently under construction to expand to the permitted 7 MGD. Before the construction of the WWTP, the property contained no structures and was used as crop and pastureland.

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

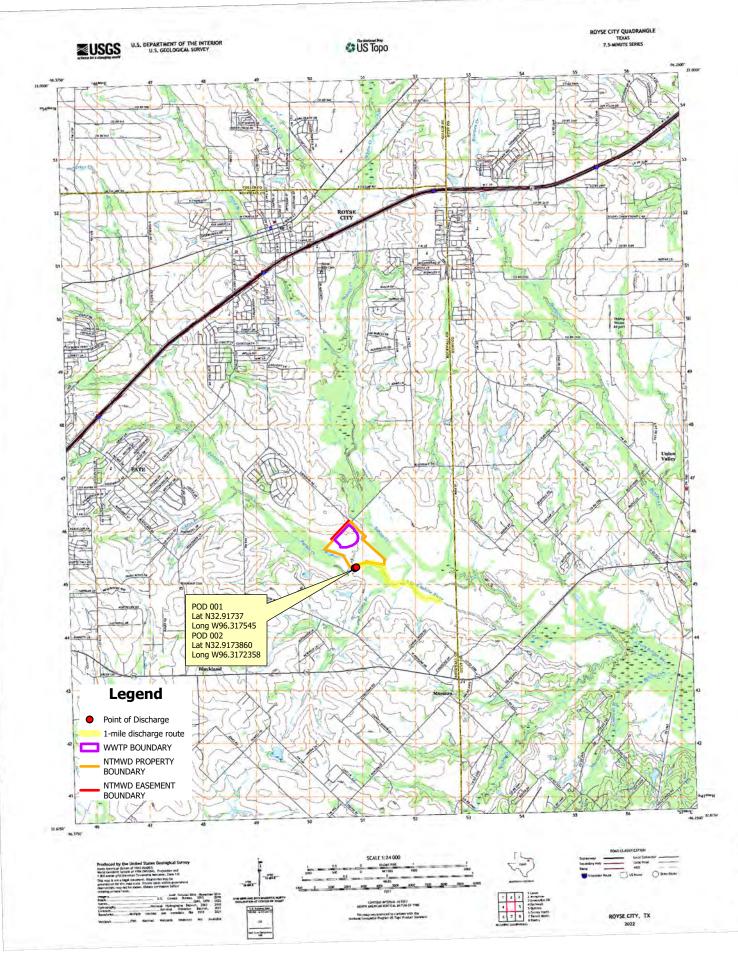
Sabine Creek WWTP was originally constructed in 2006 as a 1.5 MGD activated sludge treatment facility. The most recent expansion was placed into service in 2019, which brought the permitted annual average daily treatment capacity to 3.0 MGD. Prior to the construction of the Sabine Creek WWTP, the property was crop and pastureland.

SPIF ATTACHMENT 1 USGS TOPOGRAPHIC MAP

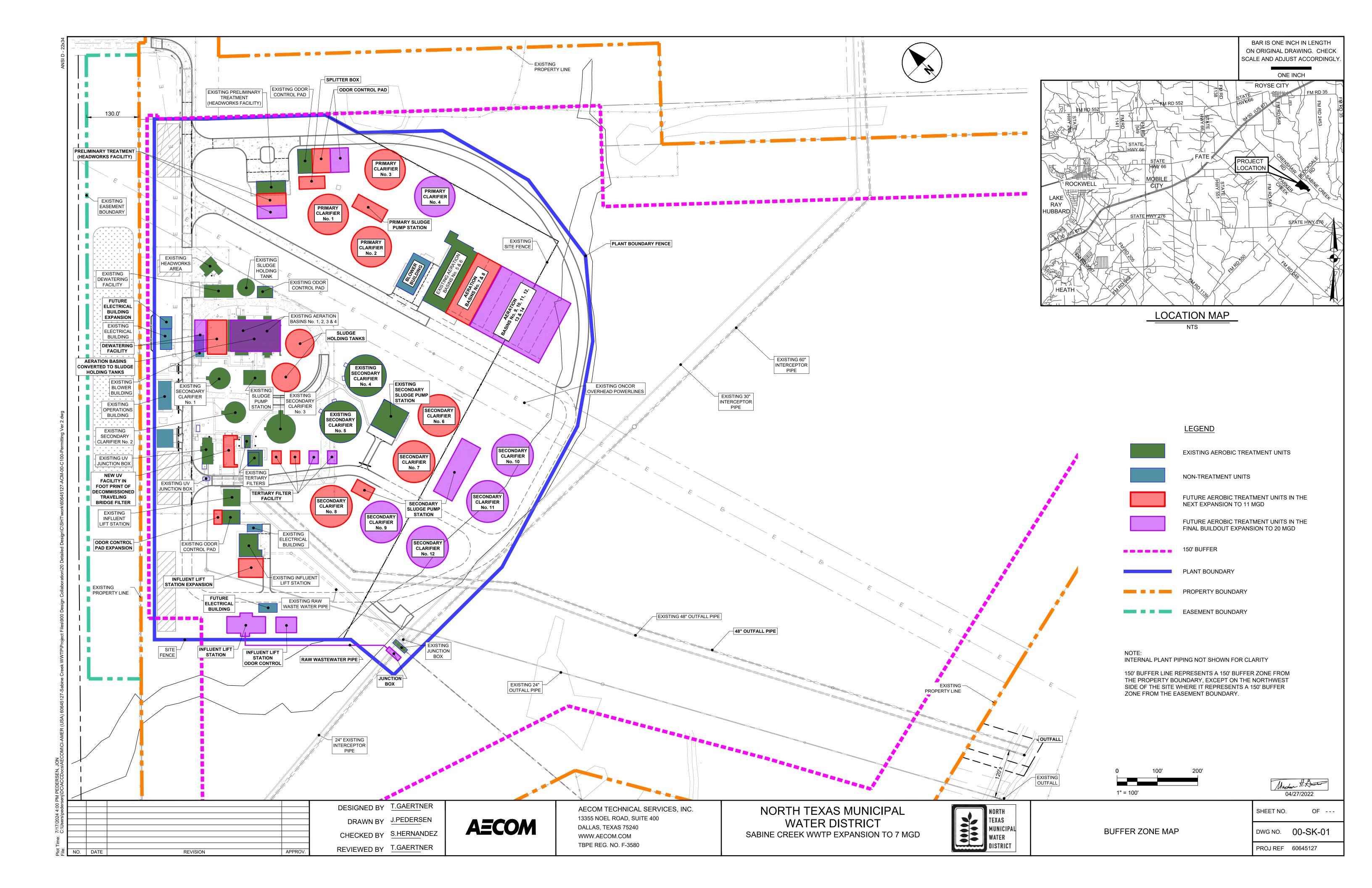


Sabine Creek Wastewater Treatment Plant USGS Topographic Map





ATTACHMENT 8 BUFFER ZONE MAP



DOMESTIC ATTACHMENT 4 TECHNICAL REPORT 1.0 and 1.1

THE TONMENTAL OUR

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 7.0

2-Hr Peak Flow (MGD): 21.0

Estimated construction start date: <u>11/2022</u> Estimated waste disposal start date: <u>8/2025</u>

B. Interim II Phase

Design Flow (MGD):11.0

2-Hr Peak Flow (MGD): <u>44.0</u>

Estimated construction start date: 2032

Estimated waste disposal start date: 2035

C. Final Phase

Design Flow (MGD): <u>20.0</u>

2-Hr Peak Flow (MGD): <u>80.0</u>

Estimated construction start date: <u>2047</u> Estimated waste disposal start date: <u>2050</u>

D. Current Operating Phase

Provide the startup date of the facility: <u>08/01/2006</u>

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

See Attachment TR-1

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

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
See Attachment TR-2		

C. Process Flow Diagram

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

Attachment: Domestic Attachment 9

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

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

- Latitude: OF 001: 32.917290; OF 002: 32.9173860
- Longitude: OF 001: -96.317632; OF 002: -96.3172358

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

Latitude: N/ALongitude: N/A

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

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

Attachment: See Domestic Attachment 10

Provide the name and a desc	cription of the area s	erved by the treatmen	ıt facility.
City of Fate and City of Royse	City		
Collection System Informati	on for wastewater T	PDFS nermits only: P	rovide information for
each uniquely owned collect	tion system, existing	and new, served by the	his facility, including
satellite collection systems. examples.	Please see the instru	ictions for a detailed	explanation and
Collection System Information	n		
Collection System Name	Owner Name	Owner Type	Population Served
Sabine Creek Interceptor	NTMWD	Publicly Owned	23,355
Parker Creek Interceptor and Parallel Interceptor	NTMWD	Publicly Owned	20,079
City of Fate Sewer System	City of Fate	Publicly Owned	20,079
Royse City Sewer System	City of Royse City	Publicly Owned	23,355
Section 4. Unbuilt P	hases (Instructi	ons Page 45)	
Is the application for a renev	wal of a permit that o	contains an unbuilt ph	ase or phases?
□ Yes ⊠ No			
If yes, does the existing per years of being authorized b		that has not been cons	structed within five
□ Yes □ No			
If yes, provide a detailed dis Failure to provide sufficien recommending denial of th	t justification may r	esult in the Executive	
N <u>/A</u>			
Section 5. Closure P	Plans (Instructio	ns Page 45)	
Have any treatment units be out of service in the next fiv		ce permanently, or wi	ll any units be taken
□ Yes ⊠ No			

If y	yes, was a closure plan submitted to the TCEQ?
	□ Yes □ No
If y	yes, provide a brief description of the closure and the date of plan approval.
	ection 6. Permit Specific Requirements (Instructions Page 45)
Fo	r applicants with an existing permit, check the Other Requirements or Special ovisions of the permit.
A.	Summary transmittal
	Have plans and specifications been approved for the existing facilities and each proposed phase?
	⊠ Yes □ No
	If yes, provide the date(s) of approval for each phase: <u>Interim Phase I (3 MGD): 11/07/2016;</u> <u>Interim Phase II (5 MGD): 03/03/2022; Final Phase (7 MGD): 03/03/2022</u>
	Provide information, including dates, on any actions taken to meet a <i>requirement or provision</i> pertaining to the submission of a summary transmittal letter. Provide a copy of an approval letter from the TCEQ, if applicable .
	See Attachment TR-3
B.	Buffer zones
	Have the buffer zone requirements been met?
	⊠ Yes □ No
	Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.
	See Attachment TR-4

	su	tes the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require bmission of any other information or other required actions? Examples include tification of Completion, progress reports, soil monitoring data, etc.
		⊠ Yes □ No
		yes, provide information below on the status of any actions taken to meet the nditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
	S	ee Attachment TR-5
D.	Gr	it and grease treatment
	1.	Acceptance of grit and grease waste
		Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?
		□ Yes ⊠ No
		If No, stop here and continue with Subsection E. Stormwater Management.
	2.	Grit and grease processing
		Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.
		N/A
	3.	Grit disposal
		Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?
		□ Yes □ No
		If No , contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

C. Other actions required by the current permit

		Describe the method of grit disposal.
		N/\underline{A}
	4.	Grease and decanted liquid disposal
		Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.
		Describe how the decant and grease are treated and disposed of after grit separation.
		N/ <u>A</u>
Е	C+4	ormwater management
L.		Applicability
	1.	Does the facility have a design flow of 1.0 MGD or greater in any phase?
		✓ Yes □ No
		Does the facility have an approved pretreatment program, under 40 CFR Part 403?
		⊠ Yes □ No
		If no to both of the above , then skip to Subsection F, Other Wastes Received.
	2.	MSGP coverage
		Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?
		⊠ Yes □ No
		If yes , please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:
		TXR05 <u>U132</u> or TXRNE <u>N/A</u>
		If no, do you intend to seek coverage under TXR050000?
		□ Yes □ No
	3.	Conditional exclusion
		Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?
		□ Yes ⊠ No

	If yes, please explain below then proceed to Subsection F, Other Wastes Received:
	N/A
4.	Existing coverage in individual permit
	Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?
	□ Yes ⊠ No
	If yes , provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.
	N/A
5.	Zero stormwater discharge
	Do you intend to have no discharge of stormwater via use of evaporation or other means?
	□ Yes ⊠ No
	If yes, explain below then skip to Subsection F. Other Wastes Received.
	N/A
	Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.
5.	Request for coverage in individual permit
	Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?
	□ Yes ⊠ No
	If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you

		intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.
		N/A
		Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F.	Di	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
	If y <u>N/</u>	ves, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. $\underline{\mathbf{A}}$
G.	Ot	her wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		□ Yes ⊠ No
		If yes, attach sewage sludge solids management plan. See Example 5 of instructions.
		In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		N/A
		Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
	2.	Acceptance of septic waste
		Is the facility accepting or will it accept septic waste?
		□ Yes ⊠ No
		If yes, does the facility have a Type V processing unit?
		□ Yes □ No
		If yes, does the unit have a Municipal Solid Waste permit?
		□ Yes □ No

	design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
	N/A
	Note: Permits that accept sludge from other wastewater treatment plants may be
	required to have influent flow and organic loading monitoring.
3.	Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)
	Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?
	□ Yes ⊠ No
	If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.
	N/A
0 1	
Secti	ion 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)
Is the	facility in operation? See Attachment TR-6
\boxtimes	Yes □ No
If no,	this section is not applicable. Proceed to Section 8.

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	N/A	<2.2	1	Composite	06/11/2024 08:55 06/12/2024 08:55
Total Suspended Solids, mg/l	N/A	1.1	1	Composite	06/11/2024 08:55 06/12/2024 08:55
Ammonia Nitrogen, mg/l	N/A	1.5	1	Composite	06/11/2024 08:55 06/12/2024 08:55
Nitrate Nitrogen, mg/l	N/A	13.2	1	Composite	06/11/2024 08:55 06/12/2024 08:55
Total Kjeldahl Nitrogen, mg/l	N/A	3.18	1	Composite	06/11/2024 08:55 06/12/2024 08:55
Sulfate, mg/l	N/A	177	1	Composite	06/11/2024 08:55 06/12/2024 08:55
Chloride, mg/l	N/A	97.4	1	Composite	06/11/2024 08:55 06/12/2024 08:55
Total Phosphorus, mg/l	N/A	1.24	1	Composite	06/11/2024 08:55 06/12/2024 08:55
pH, standard units	N/A	7.17	1	Grab	06/12/2024 08:55
Dissolved Oxygen*, mg/l	N/A	7.85	1	Grab	06/12/2024 08:55
Chlorine Residual, mg/l	N/A	0.07	1	Grab	06/12/2024 08:55
E.coli (CFU/100ml) freshwater	N/A	<1	1	Grab	06/12/2024 08:55
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	658	1	Composite	06/11/2024 08:55 06/12/2024 08:55
Electrical Conductivity, µmohs/cm, †	N/A	898	1	Grab	06/11/2024 08:55 06/12/2024 08:55
Oil & Grease, mg/l	N/A	1.5	1	Grab	06/12/2024 08:55
Alkalinity (CaCO ₃)*, mg/l	N/A	140	1	Composite	06/11/2024 08:55 06/12/2024 08:55

^{*}TPDES permits only

Table 1.0(3) - Pollutant Analysis for Water Treatment Facilities

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Jason Fisher

Facility Operator's License Classification and Level: <u>Wastewater Treatment Operator Class A</u>

Facility Operator's License Number: <u>WW054014</u>

[†]TLAP permits only

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

A. WWTP's Biosolids Management Facility Type Check all that apply. See instructions for guidance Design flow>= 1 MGD \boxtimes Serves $\geq 10,000$ people Class I Sludge Management Facility (per 40 CFR § 503.9) Biosolids generator Biosolids end user - land application (onsite) Biosolids end user - surface disposal (onsite) Biosolids end user - incinerator (onsite) B. WWTP's Biosolids Treatment Process Check all that apply. See instructions for guidance. Aerobic Digestion Air Drying (or sludge drying beds) Lower Temperature Composting Lime Stabilization **Higher Temperature Composting Heat Drying** Thermophilic Aerobic Digestion Beta Ray Irradiation Gamma Ray Irradiation Pasteurization Preliminary Operation (e.g. grinding, de-gritting, blending)

Long Term Storage (>= 2 years)

Temporary Storage (< 2 years)

Methane or Biogas Recovery

Sludge Lagoon

Other Treatment Process: N/A

C. Biosolids Management

 \boxtimes

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

Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)

all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

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

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): <u>Transport to disposal site</u>

D. Disposal site

Disposal site name: NTMWD 121 Regional Disposal Facility

TCEQ permit or registration number: MSW 2294

County where disposal site is located: Collin

E. Transportation method

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

Name of the hauler: North Texas Municipal Water District

Hauler registration number: 22488

Sludge is transported as a:

Liquid □ semi-liquid □	semi-solid □	solid \boxtimes
------------------------	--------------	-------------------

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

A. Beneficial use authorization

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

□ Yes ⊠ No

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

□ Yes □ No

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

□ Yes		No
-------	--	----

	he existing permit include authorization foe e or disposal options?	r any	y of the	follow	ring sludge processing,
Slu	dge Composting		Yes	\boxtimes	No
Mai	rketing and Distribution of sludge		Yes	\boxtimes	No
Slu	dge Surface Disposal or Sludge Monofill		Yes	\boxtimes	No
Ten	nporary storage in sludge lagoons		Yes	\boxtimes	No
author	to any of the above sludge options and the rization, is the completed Domestic Waster ical Report (TCEQ Form No. 10056) attach	vate	r Permi	t Appl	ication: Sewage Sludge
		ľ	_		
Section	11. Sewage Sludge Lagoons (Ins	tru	ctions	Page	2 53)
Does this	facility include sewage sludge lagoons?				
□ Ye	es 🛛 No				
If yes, con	nplete the remainder of this section. If no,	proc	eed to S	ection	12.
A. Location	on information				
	llowing maps are required to be submitted e the Attachment Number.	as p	art of t	he app	lication. For each map,
Original General Highway (County) Map:					
Attachment: N/A					
• USDA Natural Resources Conservation Service Soil Map:					
Attachment: N/A					
•	• Federal Emergency Management Map:				
	Attachment: <u>N/A</u>				
•	Site map:				
	Attachment: <u>N/A</u>				
Discus apply.	s in a description if any of the following ex	ist w	vithin th	ie lago	on area. Check all that
	Overlap a designated 100-year frequency	floo	d plain		
	Soils with flooding classification				
	Overlap an unstable area				
	Wetlands				
	Located less than 60 meters from a fault				
	□ None of the above				

B. Sludge processing authorization

Attachment: N/A

N/A
Temporary storage information
Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in <i>Section 7 of Technical Report 1.0.</i>
Nitrate Nitrogen, mg/kg: <u>N/A</u>
Total Kjeldahl Nitrogen, mg/kg: <u>N/A</u>
Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: <u>N/A</u>
Phosphorus, mg/kg: <u>N/A</u>
Potassium, mg/kg: <u>N/A</u>
pH, standard units: <u>N/A</u>
Ammonia Nitrogen mg/kg: <u>N/A</u>
Arsenic: <u>N/A</u>
Cadmium: <u>N/A</u>
Chromium: <u>N/A</u>
Copper: <u>N/A</u>
Lead: <u>N/A</u>
Mercury: <u>N/A</u>
Molybdenum: <u>N/A</u>
Nickel: <u>N/A</u>
Selenium: <u>N/A</u>
Zinc: <u>N/A</u>
Total PCBs: <u>N/A</u>
Provide the following information:
Volume and frequency of sludge to the lagoon(s): N/A
Total dry tons stored in the lagoons(s) per 365-day period: N/A
Total dry tons stored in the lagoons(s) over the life of the unit: $\underline{N/A}$
Liner information
Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?
□ Yes □ No

	ii yes	, describe the liner below. Please note that a liner is required.
	N/A	
D	Site d	evelopment plan
υ.		le a detailed description of the methods used to deposit sludge in the lagoon(s):
	N/A	te a detailed description of the inchises deed to deposit studge in the lagson(s).
	14/21	
	Attacl	n the following documents to the application.
	•	Plan view and cross-section of the sludge lagoon(s)
		Attachment: N/A
	•	Copy of the closure plan
		Attachment: N/A
	•	Copy of deed recordation for the site
		Attachment: N/A
	•	Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
		Attachment: N/A
	•	Description of the method of controlling infiltration of groundwater and surface water from entering the site
		Attachment: N/A
	•	Procedures to prevent the occurrence of nuisance conditions
		Attachment: N/A
Ε.	Groun	ndwater monitoring
	Is gro	undwater monitoring currently conducted at this site, or are any wells available for dwater monitoring, or are groundwater monitoring data otherwise available for the e lagoon(s)?
		Yes ⊠ No
	types	undwater monitoring data are available, provide a copy. Provide a profile of soil encountered down to the groundwater table and the depth to the shallowest dwater as a separate attachment.

Attachment: N/A

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

Page 55)	
Additional authorizations	
Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?	
⊠ Yes □ No	
If yes, provide the TCEQ authorization number and description of the authorization	:
CEQ Authorization R-14469-001 authorizes NTMWD to produce Type II Reclaimed Water nd Royse City is the Provider of Reclaimed Water to authorized Users within Royse City ncorporated and ETJ Boundaries.	
Permittee enforcement status	
Is the permittee currently under enforcement for this facility?	
□ Yes ⊠ No	
Is the permittee required to meet an implementation schedule for compliance or enforcement?	
□ Yes ⊠ No	
If yes to either question, provide a brief summary of the enforcement, the implement schedule, and the current status:	ıtation
I/A	

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

A. RCRA hazardous wastes

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

	Yes	\boxtimes	No
ш	163		INO

B. Remediation activity wastewater

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

□ Yes ⊠ No

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: <u>Jennafer P. Covington</u>
Title: <u>Executive Director/General Manager</u>

Signature:
Date:

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

B.

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

rec	commending denial of the proposed phase(s) or permit.
S	ee Attachment TR-7
Re	gionalization of facilities
	r additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> eatment ¹ .
	ovide the following information concerning the potential for regionalization of domestic stewater treatment facilities:
1.	Municipally incorporated areas
	If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.
	Is any portion of the proposed service area located in an incorporated city?
	⊠ Yes □ No □ Not Applicable
	If yes, within the city limits of: Royse City and Fate
	If yes, attach correspondence from the city.
	Attachment: See Attachment TR-8
	If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.
	Attachment: <u>See Attachment TR-8</u>
2.	Utility CCN areas
	Is any portion of the proposed service area located inside another utility's CCN area?
	⊠ Yes □ No

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

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

Attachment: See Attachment TR-8

3. Nearby WWTPs or collection systems

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

⊠ Yes □ No

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

Attachment: See Attachment TR-8

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

Attachment: See Attachment TR-8

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

Attachment: See Attachment TR-8

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

⊠ Yes □ No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): <u>7 MGD</u>

Average Influent Organic Strength or $B\mathrm{OD}_5$ Concentration in mg/l: $\underline{\textbf{188}}$

Average Influent Loading (lbs/day = total average flow X average BOD $_5$ conc. X 8.34): <u>1,568</u>

Provide the source of the average organic strength or BOD₅ concentration.

The Cities of Royse City and Fate, which include residential, commercial, and a few very small industrial customers.

B. Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

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

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: No Limit

Dissolved Oxygen, mg/l: <u>6</u>

Other: N/A

B. Interim it Phase Design Effluent Quanty
Biochemical Oxygen Demand (5-day), mg/l: <u>7</u>
Total Suspended Solids, mg/l: <u>15</u>
Ammonia Nitrogen, mg/l: $\underline{2}$
Total Phosphorus, mg/l: <u>No Limit</u>
Dissolved Oxygen, mg/l: <u>5</u>
Other: <u>N/A</u>
C. Final Phase Design Effluent Quality
Biochemical Oxygen Demand (5-day), mg/l: <u>5</u>
Total Suspended Solids, mg/l: <u>15</u>
Ammonia Nitrogen, mg/l: <u>2</u>
Total Phosphorus, mg/l: <u>No Limit</u>
Dissolved Oxygen, mg/l: <u>4</u>
Other: <u>N/A</u>
D. Disinfection Method
Identify the proposed method of disinfection.
\square Chlorine: N/A mg/l after N/A minutes detention time at peak flow
Dechlorination process: N/A
☐ Ultraviolet Light: <u>5.4</u> seconds contact time at peak flow
☐ Other: N/A
L Other. <u>IVA</u>
Section 4. Design Calculations (Instructions Page 59)
Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.
Attachment: See Domestic Attachment 12
Section 5. Facility Site (Instructions Page 60)
A. 100-year floodplain
Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?
⊠ Yes □ No
If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.
N/A

Provide the source(s) used to determine 100-year frequency flood plain. FEMA Panels 48397C0065L and 48397C0070L For a new or expansion of a facility, will a wetland or part of a wetland be filled? Yes 🖂 If ves, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit? Yes □ No If ves, provide the permit number: N/A If no, provide the approximate date you anticipate submitting your application to the Corps: N/A B. Wind rose Attach a wind rose: See Attachment TR-9 Permit Authorization for Sewage Sludge Disposal Section 6. (Instructions Page 60)

A. Beneficial use authorization

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

Yes \boxtimes

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

B. Sludge processing authorization

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

- Sludge Composting
- Marketing and Distribution of sludge
- Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

Attachment: See Domestic Attachment 13

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

Treatment units and processes dimensions and capacities

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

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

ATTACHMENT TR-1 TREATMENT PROCESS DESCRIPTION

Sabine Creek Wastewater Treatment Plant Treatment Process Description

The North Texas Municipal Water District (NTMWD) Sabine Creek Wastewater Treatment Plant (WWTP) is an advanced tertiary plant currently operating in the Existing/Interim I Phase of 7.0 MGD. NTMWD is applying for an Interim II Phase of 11.0 MGD, and a Final Phase of 20 MGD. The wastewater processes consists of *(3/5/7) fine screens, *(2/4/6) bypass manual screens, *(2/3/5) grit chambers, *(0/3/4) primary clarifiers, *(6/8/10) aeration basins, *(5/8/12) secondary clarifiers, *(1/0/0) traveling bridge filter (dual media), *(3/6/10) tertiary disc filters and the effluent is disinfected with a *(2/5/8) UV channels prior to the point of discharge to Parker Creek. Four of the existing aeration basins operate in the complete mix mode and the new aeration basins will operate in the plug flow mode. The sludge from the secondary clarifier is pumped to a *(1/3/7) aerobic sludge holding tanks for storage until it is pumped to *(2/4/6) screw presses for dewatering. The dewatered sludge is collected in a container and hauled to the NTMWD 121 Disposal Facility for disposal.

*(Total units in [Existing] Interim I Phase/Interim II Phase/Final Phase Proposed Expansion)

ATTACHMENT TR-2 TREATMENT UNITS

Sabine Creek WWTP Treatment Unit Table

Existing/Interim I Capacity 7.0 MGD AADF, 21.0 MGD P2HF Interim II Capacity 11 MGD AADF, 44 MGD P2HF Final Capacity 20 MGD AADF, 80 MGD P2HF

Treatment	Total	Total No. of	Capacity/Dimensions
Unit Type	Number	Units per Phase	
	of Units	Existing/Interim I	Existing Capacity/Dimension
	in Final Phase	Interim II 11 MGD	Additional Capacity/Dimension
		Final 20 MGD	Additional Capacity/Dimension
Fine		3	(1) 10 MGD + (1) 6 MGD + (1) 16 MGD
Screens	7	2	16 MGD each
Screens		2	16 MGD each
Bypass		2	(1) 10 MGD + (1) 16 MGD
Manual	6	2	16 MGD each
Screen		2	16 MGD each
Grit	-	2	(1) 16 MGD P2HF capacity; Diameter: 14 ft (1) 20 MGD P2HF capacity; Diameter: 16 ft
Chambers	5	1	20 MGD P2HF capacity each; Diameter: 16 ft
		2	20 MGD P2HF capacity each; Diameter: 16 ft
	4	0	N/A
Primary Clarifiers		3	20.0 MGD P2HF capacity each; 100 ft diameter, 18 ft SWD
Clariners		1	20.0 MGD P2HF capacity; 100 ft diameter, 18 ft SWD
	1 10	6	(4) 0.75 MGD AADF capacity each Dimensions: 75 ftx30 ftx16 ft SWD each (2) 2.0 MGD AADF capacity each Dimensions: 150 ftx30 ftx20 ft SWD each
Aeration Basins		2	(2) 2.0 MGD AADF capacity each Dimensions: 150 ftx30 ftx20 ft SWD
		6 new, (minus the 4 converted)	(6) 2.0 MGD AADF capacity each Dimensions: 150 ftx30 ftx20 ft SWD (The (4) 0.75 MGD basins of the Interim I Phase will be converted to Aerobic Sludge Holding Tanks)
Secondary Clarifiers	12	5	(2) 2.25 MGD P2HF capacity; 50 ft diameter, 12 ft SWD (1) 4.5 MGD P2HF capacity; 70 ft diameter, 12 ft SWD (2) 9.4 MGD P2HF capacity; 100 ft diameter, 18 ft SWD
		3	9.4 MGD P2HF capacity; 100 ft diameter, 18 ft SWD

		4	9.4 MGD P2HF capacity; 100 ft diameter, 18 ft SWD
Traveling Bridge Filter	0	1	5.0 MGD P2HF capacity Filter Bed Area: 875 ft², Loading Rate P2HF:3.97 GPM/ft²
		0	To be removed
		0	N/A
Tertiary Disc Filters	10	3	(1) 8.0 MGD P2HF capacity Filter Bed Area: 861 ft2, Loading Rate P2HF: 6.5 GPM/ft2; (2) 8.2 MGD P2HF capacity each Filter Bed Area: 896 ft2, Loading Rate P2HF: 6.36 GPM/ft2
		3	8.2 MGD P2HF each Filter Bed Area: 896 ft2, Loading Rate P2HF: 6.36 GPM/ft2
		4	8.2 MGD P2HF each Filter Bed Area: 896 ft2, Loading Rate P2HF: 6.36 GPM/ft2
U.V. System	8 channels	2 channels	21.2 MGD P2HF capacity No. of modules per channel: 5
		3 channels	31.8 MGD P2HF capacity added No. of modules per channel: 5
		3 channels	31.8 MGD P2HF capacity added No. of modules per channel: 5
Aerobic Sludge Holding Tanks	7	1	Volume: 150,000 Gallons Diameter: 42 ft
		2	Volume: 575,000 Gallons each Diameter: 70 ft each
		4	Volume: 269,000 Gallons each Dimensions: 75 ftx30 ftx16 ft SWD each (converted 0.75 MGD aeration basins)
Screw Press	6	2	Solids Loading Capacity: 1000 lb/hr dry capacity each Flow: 200 GPM each at 1% sludge concentration
		2	Solids Loading Capacity: 1000 lb/hr dry capacity each Flow: 200 GPM each at 1% sludge concentration
		2	Solids Loading Capacity: 1000 lb/hr dry capacity each Flow: 200 GPM each at 1% sludge concentration

ATTACHMENT TR-3 APPROVAL LETTER

Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Bobby Janecka, *Commissioner*Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 3, 2022

Bruce D. Cole, P.E. AECOM TECHNICAL SERVICES GROUP, INC. 13355 Noel Road, Ste. 400 Dallas, TX 75240

Re:

North Texas Municipal Water District Sabine Creek WWTP Expansion to 7 MGD Permit No. WQ0014469-001 WWPR Log No. 0322/011 CN601365448, RN103888020 Rockwall County

Dear Mr. Cole:

We have received the project summary transmittal letter dated 2/22/2022.

The rules which regulate the design, installation and testing of domestic wastewater projects are found in 30 TAC, Chapter 217, of the Texas Commission on Environmental Quality (TCEQ) rules titled. Design Criteria for Wastewater Systems.

Section 217.6(d), relating to case-by-case reviews, states in part that upon submittal of a summary transmittal letter, the executive director may approve of the project without reviewing a complete set of plans and specifications.

Under the authority of §217.6(e) a technical review of complete plans and specifications is not required. However, the project proposed in the summary transmittal letter is approved for construction. Please note, that this conditional approval does not relieve the applicant of any responsibilities to obtain all other necessary permits or authorizations, such as wastewater treatment permit or other authorization as required by Chapter 26 of the Texas Water Code. Below are provisions of the Chapter 217 regulations, which must be met as a condition of approval. These items are provided as a reminder. If you have already met these requirements, please disregard this additional notice.

• You must keep certain materials on file for the life of the project and provide them to TCEQ upon request. These materials include an engineering report, test results, a summary transmittal letter, and the final version of the project plans and specifications. These materials shall be prepared and sealed by a Professional Engineer licensed in the State of Texas and must show substantial compliance with Chapter 217. All plans and specifications must conform to any waste discharge requirements authorized in a permit by the TCEQ. Certain specific items which shall be addressed in the engineering report are discussed in §217.6(d). Additionally, the engineering report must include all constants, graphs,

Bruce D. Cole, P.E. Page 2 March 3, 2022

equations, and calculations needed to show substantial compliance with Chapter 217. The items which shall be included in the summary transmittal letter are addressed in §217.6(d)(1)-(9).

- Any deviations from Chapter 217 shall be disclosed in the summary transmittal letter and the
 technical justifications for those deviations shall be provided in the engineering report. Any
 deviations from Chapter 217 shall be based on the best professional judgement of the
 licensed professional engineer sealing the materials and the engineer's judgement that the
 design would not result in a threat to public health or the environment.
- Any variance from a Chapter 217 requirement disclosed in your summary transmittal letter
 is approved. If in the future, additional variances from the Chapter 217 requirements are
 desired for the project, each variance must be requested in writing by the design engineer.
 Then, the TCEQ will consider granting a written approval to the variance from the rules for
 the specific project and the specific circumstances.
- Within 60 days of the completion of construction, an appointed engineer shall notify both
 the Wastewater Permits Section of the TCEQ and the appropriate Region Office of the date
 of completion. The engineer shall also provide written certification that all construction,
 materials, and equipment were substantially in accordance with the approved project, the
 rules of the TCEQ, and any change orders filed with the TCEQ. All notifications,
 certifications, and change orders must include the signed and dated seal of a Professional
 Engineer licensed in the State of Texas.

This approval does not mean that future projects will be approved without a complete plans and specifications review. The TCEQ will provide a notification of intent to review whenever a project is to undergo a complete plans and specifications review. Please be reminded of 30 TAC §217.7(a) of the rules which states, "Approval given by the executive director or other authorized review authority does not relieve an owner of any liability or responsibility with respect to designing, constructing, or operating a collection system or treatment facility in accordance with applicable commission rules and the associated wastewater permit".

If you have any questions or if we can be of any further assistance, please call me at (512) 239-4552.

Sin a ly,

ouis Herrin, III, P Wastewater Perm

Wastewater Permits Section (MC 148

Water Quality Division

Texas Commission on Environmental Quality

LCHIII/tc

cc: TCEQ, Region 4 Office

ATTACHMENT TR-4 BUFFER ZONE REQUIREMENTS

Buffer Zone Requirements

The majority of the buffer zone surrounding the WWTP is met by ownership, with an exception to the buffer zone along the northwest property boundary, which extends into property owned by Waterscape 4, LCC.

Attached is an easement executed August 19, 2024, between NTMWD and Waterscape 4, LLC. Waterscape 4, LLC or its successors shall not construct any house, residential building, or other type of habitable structure on the easement which satisfies the buffer zone requirements for the northwest boundary.

EASEMENT FOR THE NORTH TEXAS MUNICIPAL WATER DISTRICT SABINE CREEK WASTEWATER TREATMENT PLANT BUFFER ZONE

STATE OF TEXAS §

COUNTY OF ROCKWALL §

KNOW ALL MEN BY THESE PRESENTS:

THAT, subject to the exceptions, reservations, and limitations herein, and in lieu of condemnation of same, the undersigned WATERSCAPE 4, LLC, ("Grantor"), for and in consideration of the sum of **TEN AND NO/100 DOLLARS** (\$10.00) and other good a valuable consideration paid by the NORTH TEXAS MUNICIPAL WATER DISTRICT ("Grantee"), has granted, sold and conveyed, and by these presents does grant, sell, and convey unto the Grantee an easement on those certain premises owned by the Grantor for the purpose of establishing and maintaining a buffer zone relating to the Grantee's wastewater facility, said easement being, on and across the following described lands situated in Rockwall County, Texas, to wit:

Being a tract of land one hundred and thirty (130') feet in width situated in Nancy McCasland Survey Survey, Abstract No. 149, Rockwall County, Texas, being more particularly described as follows (the "Easement Area"):

SEE ATTACHED EXHIBIT "A" FOR DESCRIPTION

Subject to the exceptions, reservations, and limitations herein, and in lieu of condemnation of same, Grantor covenants to the Grantee that the Grantor or its successors shall not construct or cause to be constructed any house, residential building, or other type of habitable structure, on the property described in Exhibit A attached. The Grantor further represents that no residences now exist on the area described in Exhibit A. The area described in Exhibit A shall be utilized by Grantee solely to provide a buffer zone for the Grantee's wastewater facility adjoining the described tract.

Notwithstanding anything to the contrary herein, Grantee shall have the right, but not the obligation, to construct an earthen berm and plant trees and landscaping within the Easement Area to screen the wastewater treatment facilities, provided, however, if Grantor has previously constructed improvements in the Easement Area, Grantee shall coordinate Grantee's work with Grantor to minimize impacts to Grantor's improvements. Grantor shall have the right, but not the obligation, to construct an earthen berm and landscaping, at Grantor's sole cost, within the Easement Area to screen the wastewater treatment plant or for such other purposes as Grantor may determine. Grantor may also construct hike and bike trails within the Easement Area.

Grantee shall have no obligation to maintain the portion of the berm, any landscaping, hike and bike trails, or any other similar amenities constructed by Grantor within the Easement Area, said obligation to repair and maintain that portion of the berm, landscaping and any facilities constructed by Grantor being the sole responsibility of Grantor. Grantor shall have no obligation to maintain the portion of the berm, any landscaping or any other similar amenities constructed by Grantee within the Easement Area, said obligation to repair and maintain that portion of the berm, landscaping and any facilities constructed by Grantee being the sole responsibility of Grantee. Grantor and its successors and assigns shall indemnify

Grantee from any and all causes of action, claims, and damages for injuries to person or property related to or arising out of any use or activity on or within the Easement Area by persons or entities using the Easement Area at Grantor's direction or with Grantor's permission, provided, however, Grantor shall not be required to indemnify Grantee for any causes of action, claims, and damages arising from or related to the use of the Easement Area by Grantee, any of Grantee's employees, contractors, agents, or representatives, or any person or entity using the Easement Area at Grantor's direction or with Grantor's permission. Grantor shall have the right to assign its rights and obligations under this Easement to the homeowner's association ("HOA") for the Waterscape development and, upon such assignment and the HOA's written acceptance of Grantor's obligation under this Easement, Grantor's indemnity and other obligations under this Easement shall automatically terminate.

Grantor further reserves the right to put or place or authorize others to put or place underground utility lines, drainage pipes and swales provided such facilities do not materially interfere with the construction or viability of the berm. Said utility lines, drainage pipes and swales may only be placed within the Easement Area upon express written approval by Grantee of Grantor's engineering plans and specifications, which approval will not be unreasonably withheld, conditioned, or delayed.

THE CONVEYANCE OF THE RIGHTS TO USE THE EASEMENT AREA IS MADE ON AN "AS-IS, WHERE IS" BASIS, AND THE CONSIDERATION WAS BARGAINED ON THE BASIS OF AN "AS IS, WHERE IS" TRANSACTION IN LIEU OF GRANTEE'S CONDEMNATION OF THE PROPERTY.

GRANTOR HEREBY SPECIFICALLY DISCLAIMS ANY WARRANTY, GUARANTY, OR REPRESENTATION, ORAL OR WRITTEN, PAST, PRESENT, OR FUTURE, OF, AS TO, OR CONCERNING (1) THE NATURE AND CONDITION OF THE EASEMENT AREA, (2) THE SUITABILITY OF THE EASEMENT AREA FOR ANY AND ALL ACTIVITIES AND USES WHICH GRANTEE MAY ELECT TO CONDUCT THEREON, (3) THE COMPLIANCE OF THE EASEMENT AREA OR THE OPERATION THEREOF WITH ANY LAWS, RULES, ORDINANCES, OR REGULATIONS OF ANY GOVERNMENT OR OTHER BODY, AND (4) WARRANTIES (EXPRESS OR IMPLIED) OF CONDITION OR REGARDING THE PROPERTY'S FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, TENANTABILITY, HABITABILITY OR SUITABILITY FOR ANY INTENDED USE.

This conveyance is made by Grantor and accepted by Grantee subject to the following:

- 1. Visible and apparent easements and encumbrances not appearing of record.
- 2. Easements, restrictions, reservations, covenants, conditions, encumbrances, oil, gas, water and all other leases, and mineral severances (other than liens and conveyances) presently of record in the Official Public Records of Rockwall County, Texas, that affect the property, but only to the extent that said items are still valid and in force and effect as of the Effective Date.

Grantor reserves all of the subsurface water, oil, gas, and sulfur in and under the Easement Area but waives all rights of ingress and egress to the surface thereof for the purpose of exploring, developing, mining or drilling for same; however, nothing in this reservation shall affect the title and rights of the Grantee, its successors and assigns, to take and use all other minerals and materials thereon, therein, and thereunder.

TO HAVE AND TO HOLD, subject to the exceptions, reservations, and limitations herein, and in lieu of condemnation, unto the said Grantee, its successors and assigns, the above-described easement, and Grantor does hereby bind itself and its successors and assigns to warrant and forever defend all and singular the said easement to Grantee and its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

WATERSCAPE 4, LLC

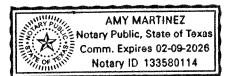
ACKNOWLEDGMENT

STATE OF TEXAS

COUNTY OF ROCKWALL

§ § §

This instrument was acknowledged before me on HUNUX 19, 2024, by Colin Huffin 3 , as authorized Simology of WATERSCAPE 4, LLC, on behalf of said entity.



Notary Public, State of Texas

ACCEPTANCE BY GRANTEE:

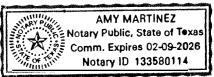
NORTH TEXAS MUNICIPAL WATER DISTRICT

By: Wulf Sem

Its: Assistant Deputy ENGINEERING

ACKNOWLEDGMENT

STATE OF TEXAS §
COUNTY OF ROCKWALL §



Notary Public, State of Texas

NTMWD SABINE CREEK WASTEWATER TREATMENT PLANT WATERSCAPE 4, LLC PARCEL ACQUISITION PROJECT NUMBER 308-0576-20 NANCY McCASLAND SURVEY, A-149 ROCKWALL COUNTY, TEXAS

BEING a 4.611 acre (200,842 square foot) tract of land situated in the Nancy McCasland Survey, Abstract Number 149, in Rockwall County, Texas, and being a portion of the remainder of a called 121.833 acre tract of land situated said McCasland Survey, conveyed to Waterscape 4, LLC by the Special Warranty Deed with Vendor's Lien recorded in Instrument Number 2020000013264, Official Public Records, Rockwall County, Texas and being more particularly described as follows:

COMMENCING at a 5/8-inch iron rod with a yellow cap stamped 'CSM-INC' found for the East corner of a called 0.970 acre tract of land situated in said McCasland Survey and the Daniel Henley Survey, Abstract Number 118, conveyed to the North Texas Municipal Water District (henceforth referred to as NTMWD) by the General Warranty Deed recorded in Volume 3582, Page 175, Deed Records, Rockwall County, Texas and an interior ell corner of a called 82.02 acre tract of land situated in said McCasland Survey and said Henley Survey conveyed to David D. Boyd and wife, Lorena G. Boyd, et al, by the Warranty Deed with Vendor's Lien recorded in Volume 2564, Page 67, said Deed Records, from which a 5/8-inch iron rod found in the Northeasterly line of a called 110.460 acre tract of land situated in said McCasland Survey conveyed to said NTMWD by the Warranty Deed recorded in Volume 3061, Page 268, said Deed Records, for the South corner of said NTMWD 0.970 acre tract and the South most West corner of said Boyd tract, bears South 44 degrees, 30 minutes, 00 seconds West, a distance of 212.61 feet;

THENCE: North 45 degrees, 30 minutes, 00 seconds West, with the Northeasterly line of said NTMWD 0.970 acre tract and the North most Southwesterly line of said Boyd tract, a distance of 182.66 feet to the North corner of said NTMWD 0.970 acre tract and the North most West corner of said Boyd tract, being within the margins of Crenshaw Road (a public road by use and occupation, no dedication found);

THENCE: South 44 degrees, 39 minutes, 53 seconds West, within the margins of said Crenshaw Road and with the East most Northwesterly line of said NTMWD 0.970 acre tract, a distance of 28.97 feet;

THENCE: North 46 degrees, 25 minutes, 08 second West, continuing within the margins of said Crenshaw Road and the South most Northeasterly line of said NTMWD 0.970 acre tract, a distance of 15.71 feet to the Southeast corner of a called 1.178 acre tract of land situated in the Richard Brown Survey, Abstract Number 51, conveyed to Rockwall County, Texas for the Crenshaw Road right-of-way, by the Donation Deed for Right-of-Way recorded in Volume 750, Page 187, said Deed Records, and the Northeast corner of a called 1.178 acre tract of land situated in said McCasland Survey conveyed to said Rockwall County for said Crenshaw Road right-of-way by the Donation Deed for Right-of-Way (henceforth referred to as Rockwall County Tract II) recorded in Volume 750, Page 185, said Deed Records;

THENCE: South 43 degrees, 56 minutes, 55 seconds West, with the Northwesterly line of said NTMWD 0.970 acre tract and the Southeasterly line of said Rockwall County Tract II, a distance of 30.00 feet to a 5/8-inch iron rod with a red plastic cap stamped 'CRIADO' set in the Northwesterly line of said NTMWD 0.970 acre tract, for the Northeast corner of said Waterscape 4 Remainder Tract and the Southeast corner of said Rockwall County Tract II and being the **POINT OF BEGINNING** of the tract herein described;



Page 1 of 2

NTMWD SABINE CREEK WASTEWATER TREATMENT PLANT WATERSCAPE 4, LLC PARCEL ACQUISITION PROJECT NUMBER 308-0576-20 NANCY McCASLAND SURVEY, A-149 ROCKWALL COUNTY, TEXAS

THENCE: South 43 degrees, 56 minutes, 55 seconds West, with the Southeasterly line of said Waterscape 4 Remainder Tract and the Northwesterly line of said NTMWD 0.970 acre tract, at 160.30 feet pass the West corner of said NTMWD 0.970 acre tract and the North corner of said NTMWD 110.460 acre tract, in all a total distance of 1,545.51 feet to a 5/8-inch iron rod with a red plastic cap stamped 'CRIADO' set;

THENCE: North 46 degrees, 30 minutes, 30 seconds West, departing the Northwesterly line of said NTMWD 110.460 acre tract, over and across said Waterscape 4 Remainder tract, a distance of 130.00 feet to a 5/8-inch iron rod with a red plastic cap stamped 'CRIADO' set;

THENCE: North 43 degrees, 56 minutes, 55 seconds East, continuing over and across said Waterscape 4 Remainder Tract, a distance of 1,544.47 feet to a 5/8-iron rod with a red plastic cap stamped 'CRIADO' set in the Northeasterly line of said Waterscape 4 Remainder Tract and the Southwesterly line of said Rockwall County Tract II;

THENCE: South 46 degrees, 30 minutes, 30 seconds East, with the Northeasterly line of said Waterscape 4 Remainder Tract and the Southwesterly line of said Rockwall County Tract II, a distance of 130.00 feet to the **POINT OF BEGINNING** and containing 4.611 acres (200,842 square feet) of land.

Note: All bearings are based on the Texas State Plane Coordinate System, North Central Zone (4202), North American Datum of 1983 (NAD '83). All distances cited are surface values and may be converted to grid by dividing by a combined scale factor of 1,000146135. Units are US Survey Feet.

Note: Map of Survey of even date attached herewith.

Note: Surveyed on the ground December 2023.

Note: Criado Project No. R14836.00

I, S. Kevin Wendell, a Registered Professional Land Surveyor in the State of Texas, hereby certify that this Real Property Description and Map of Survey, attached herewith, represents an actual survey made on the ground under my supervision.

01/02/24

Date

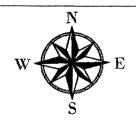
S. Kevin Wendell, RPLS #5500

Registered Professional Land Surveyor

State of Texas

Criado and Associates, Inc TBPLS Firm Registration No. 10163300 4100 Spring Valley Road, Suite 1001 Dallas, Texas 75244 (469) 547-6057 kwendell@criadoassociates.com



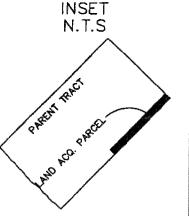


N.T.S

NTMWD SABINE CREEK WASTEWATER TREATMENT PLANT

4.611 AC. TR. OUT OF THE WATERSCAPE 4, LLC 121.833 AC. TR. PROJECT NUMBER 308-0576-20

NANCY McCASLAND SURVEY, A-149 ROCKWALL COUNTY, TEXAS



REMAINDER OF 121,833 AC. TR. NANCY McCASLAND SURVEY, A-149 WATERSCAPE 4, LLC

INST. NO. 20200000013264 O.P.R.R.C.T.

82.02 AC. TR.
DANEL HEALEY SURVEY.
A-118
NANCY MICRASLAND
SURVEY, A-149
DAVID D. BOYD AND WIFE,
LORENA G. BOYD, ETAL

VOL. 2584 PG. 87 D.R.R.C.T.

remainder of 190.032 ac. Tr. Richard Brown Survey, A-51 John Wesley Cremshaw

VOL. 2023, PG. 5017 D.R.R.C.T.

VOL. 3582, PG. 176 D.R.R.C.T.

4.611 AC. TR (200,842 SQ. FT

110.480 AC. TR. NANCY MCCASLAND SURVEY, A-149 NORTH TEXAS MUNICIPAL WATER DISTRICT

VOL. 3061, PG. 286 D.R.R.C.T.



4.611 AC. TR. OUT OF THE WATERSCAPE 4, LLC 121.833 AC. TR. NANCY McCASLAND SURVEY, A-149 ROCKWALL COUNTY, TEXAS MAP OF SURVEY

DRAWN BY: KW

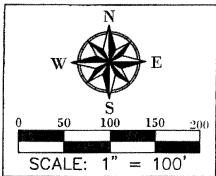
CHECKED: AA

LOCATION: ROCKWALL COUNTY, TX

PROJECT # R14836.00

DATE: 12/28/2023

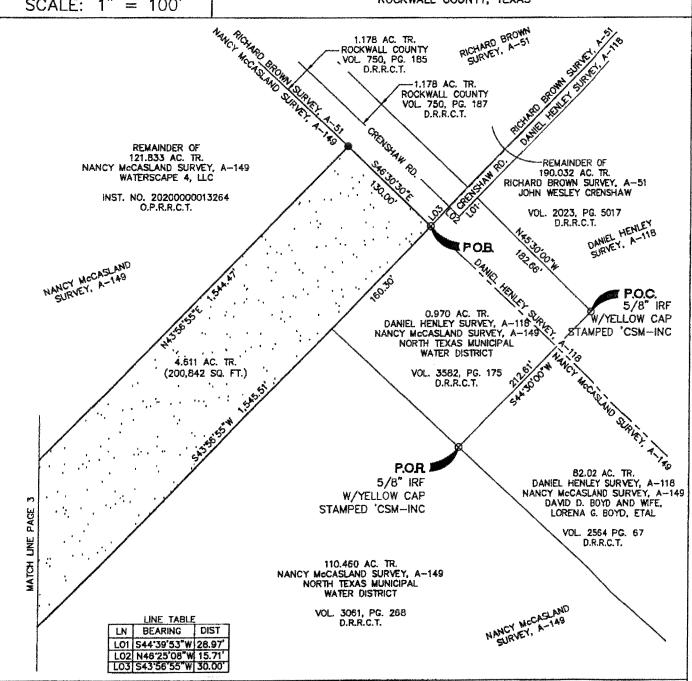
PAGE 1 OF 4



NTMWD SABINE CREEK WASTEWATER TREATMENT PLANT

4.611 AC. TR.
OUT OF
THE WATERSCAPE 4, LLC
121.833 AC. TR.
PROJECT NUMBER 308-0576-20

NANCY McCASLAND SURVEY, A-149 ROCKWALL COUNTY, TEXAS



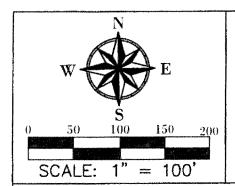


4.611 AC. TR.
OUT OF
THE WATERSCAPE 4, LLC
121.833 AC. TR.
NANCY McCASLAND
SURVEY, A-149
ROCKWALL COUNTY, TEXAS

MAP OF SURVEY
DRAWN BY: KW CHECKED: AA
LOCATION: ROCKWALL COUNTY, TX

PROJECT # R14836.00

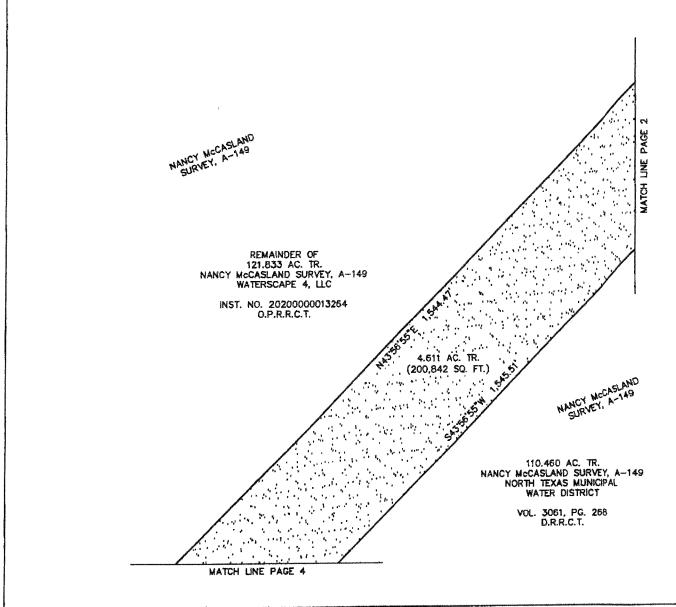
DATE: 12/28/2023 PAGE 2 OF 4



NTMWD SABINE CREEK WASTEWATER TREATMENT PLANT

4.611 AC. TR.
OUT OF
THE WATERSCAPE 4, LLC
121.833 AC. TR.
PROJECT NUMBER 308-0576-20

NANCY McCASLAND SURVEY, A-149 ROCKWALL COUNTY, TEXAS





4.611 AC. TR.
OUT OF
THE WATERSCAPE 4, LLC
121.833 AC. TR.
NANCY McCASLAND
SURVEY, A-149
ROCKWALL COUNTY, TEXAS

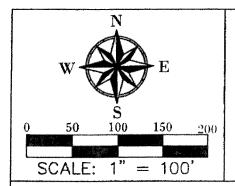
MAP OF SURVEY

DRAWN BY: KW CHECKED: AA LOCATION: ROCKWALL COUNTY, TX

PROJECT # R14836.00

DATE: 12/28/2023

PAGE 3 OF 4



NTMWD SABINE CREEK WASTEWATER TREATMENT PLANT

4.611 AC. TR.
OUT OF
THE WATERSCAPE 4, LLC
121.833 AC. TR.
PROJECT NUMBER 308-0576-20

NANCY McCASLAND SURVEY, A-149 ROCKWALL COUNTY, TEXAS

MATCH LINE PAGE 3

REMAINDER OF 121.833 AC. TR. NANCY McCASLAND SURVEY, A-149 WATERSCAPE 4, LLC

> INST. NO. 20200000013264 O.P.R.R.C.T.

HANCY MCCASLAND HANCY MCCASLAND 4.611 AC. TR. (200,842 SO. FT.)

110,460 AC. TR.
NANCY McCASLAND SURVEY, A-149
NORTH TEXAS MUNICIPAL
WATER DISTRICT

VOL. 3061, PG. 268 D.R.R.C.T.

> HANCY MCCASLAND HANCY MCCASLAND SURVEY, A-149

	LEGEND
0	MONUMENT FOUND (AS NOTED)
•	5/8" IRON ROD SET WITH BLUE CAP STAMPED "CRIADO EASEMENT"
O.P.R.R.C.T.	OFFICIAL PUBLIC RECORDS OF ROCKWALL COUNTY, TEXAS
D.R.R.C.T.	DEED RECORDS OF ROCKWALL COUNTY, YEXAS
INST. NO.	INSTRUMENT NUMBER
VOL./PG.	VOLUME/PAGE
P.O.C.	POINT OF COMMENCING
P.O.B.	POINT OF BEGINNING
P.O.R.	POINT OF REFERENCE
ROW	RIGHT-OF-WAY
UH	LINE NUMBER
DIST	DISTANCE
IRF	IRON ROD FOUND

NOTES:

1. ALL BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE (4202), NORTH AMERICAN DATUM OF 1983 (NAD '83). ALL DISTANCES SHOWN ARE SURFACE VALUES AND MAY BE CONVERTED TO CRID BY DIVIDING BY A COMBINED SCALE FACTOR OF 1.00013, UNITS ARE US SURVEY FRET.

- 2. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. THE SURVEYOR DO NOT RESEARCH THE SUBJECT PROPERTY TITLE INFORMATION AND/OR ENCROACHMENTS. THERE MAY BE EASEMENT AND OR RESTRICTIVE COVENANTS OF RECORD AFFECTING THIS PROPERTY WHICH ARE NOT SHOWN HEREON.
- 3. THIS MAP OF SURVEY IS ACCOMPANIED BY A SEPARATE PROPERTY DESCRIPTION OF EVEN DATE.
- 4. A 5/8-INCH IRON ROD WITH A BLUE PLASTIC CAP STAMPED 'CRIADO EASEMENT' SET AT ALL PARCEL CORNERS.
- 5. CRENISHAW ROAD IS A GENERALLY RECOGNIZED PUBLIC ROAD BY USE AND OCCUPATION, EXCEPT AS SHOWN, NO DEDICATION FOUND.



THIS IS TO CERTIFY THAT THIS MAP OF SURVEY WAS PREPARED FROM AN ACCURATE SURVEY CONDUCTED ON THE GROUND UNDER MY DIRECT SUPERVISION NOVEMBER 2023.

KEVIN WENDELL

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS REGISTRATION NO. 5500

DATE: 01/02/24



4.611 AC. TR.
OUT OF
THE WATERSCAPE 4, LLC
121.833 AC. TR.
NANCY McCASLAND
SURVEY, A-149
ROCKWALL COUNTY, TEXAS

MAP OF SURVEY

DRAWN BY: KW CHECKED: AA

LOCATION: ROCKWALL COUNTY, TX

PROJECT # R14836.00

DATE: 12/28/2023

PAGE 4 OF 4

ATTACHMENT TR-5 OTHER REQUIREMENTS

Other Requirements Sabine Creek Wastewater Treatment Plant

The "Other Requirements" item 7 of the current TPDES Permit No. WQ0014469001, issued March 30, 2023, requires a summary transmittal letter prior to the construction of the Interim II and Final phase treatment facilities. The summary transmittal letter was submitted on 2/24/2022 and TCEQ approval letter was dated 3/3/2022.

Other Requirement 8 requires the permittee to notify the TCEQ in writing at least 45 days prior to the completion of the Interim II and Final phase facilities, on Notification of Completion Form 20007. The facility is currently operating Interim I of the current permit. The facility is currently under construction for the expansion. The Notification of Completion Form will be submitted at least 45 days prior to completion of the facilities.

Other Requirement 9 included monitoring and reporting requirements for TDS, chloride, and sulfate at Outfall 001, that will expire upon the expiration date of the permit. The reported monthly average values are to be evaluated at the next permit action, and the reporting requirements may be reinstated, or an effluent limit added. Since the permit was issued last year and does not expire until March 30, 2028, there has not been enough samples collected to accurately determine representative monthly averages. TDS, chloride, and sulfate samples will continue to be collected and data will be submitted with the next renewal application.

ATTACHMENT TR-6 POLLUTANT ANALYSIS OF TREATED EFFLUENT

Sabine Creek WWTP Project: Permit Renewal

1513 Crenshaw Rd Project Number: SBX

Project Manager: Kristen Suprobo 2024-07-30 15:41 Royse City, TEXAS 75189

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID : 2421003-01

Sample Name : Effluent TC Sample Alias:

96 Pt. Time Composite Sample Type : Sampled Begin: 2024-06-11 08:50 Sampled Ended : 2024-06-12 08:55 Matrix Aqueous; (Water) Outfall Effluent Sampler A : Eric Demand

Sampler B : Job Info

Laboratory ID :

Job Info :

Sample Name :

2421003-03 Effluent G

Yilma Zerihun

Sample Alias: Grab

Sample Type : Sampled Begin :

2024-06-12 08:55 Sampled Ended : 2024-06-12 08:55 Matrix Aqueous; (Water) Outfall Sampler A : Sampler B : Eric Demand Yilma Zerihun

Laboratory ID: 2421003-02

Sample Name : Effluent Equipment Blank Reported:

Sample Alias: Sample Type : Grab

2024-06-10 13:30 Sampled Begin: Sampled Ended: 2024-06-10 13:30 Matrix Aqueous; (Water) Outfall Equipment Blank Sampler A : Sampler B : Eric Demand Yilma Zerihun

Job Info

Laboratory ID: 2421003-04 Sample Name : Trip Blank Sample Alias:

Sample Type : Grab

2024-06-10 13:16 Sampled Begin : Sampled Ended: 2024-06-10 13:16 Matrix Aqueous; (Water) Outfall Trip Blank Sampler A : Sampler B : Eric Demand Yilma Zerihun

Job Info :

North Texas Municipal Water District

Kelly Harden, Laboratory Manager



The results in this report apply to the samples analyzed in accordance with the chain of custody document.

North Texas Municipal Water District Laboratory 201 E Brown St. Wylie, TX 75098

> PMR-4 01/26/2012

Project Number: SBX

Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Total Metals by EPA 200.8												
North Texas Municipal Wate	r District											
Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Silver	lmg	ND	0.500	0.250	0.500	ug/L	1	2417014	2024-06-19	2024-06-20	EPA 200.8	
Aluminum	lmg	35.4	2.50	1.25	2.50	ug/L	1	"	2024-06-19	2024-06-20	"	
Arsenic	lmg	1.65	0.500	0.250	0.500	ug/L	1	"	2024-06-19	2024-06-20	"	
Barium	lmg	44.4	1.00	0.500	1.00	ug/L	1	"	2024-06-19	2024-06-20	"	
Beryllium	lmg	ND	0.500	0.250	0.500	ug/L	1	2417306	2024-06-27	2024-07-02	"	
Cadmium	lmg	ND	1.00	0.500	1.00	ug/L	1	2417014	2024-06-19	2024-06-20	"	
Chromium	lmg	ND	2.50	1.25	2.50	ug/L	1	,,	2024-06-19	2024-06-20	"	
Copper	lmg	1.96	1.00	0.500	1.00	ug/L	1	,,	2024-06-19	2024-06-20	"	
Nickel	lmg	5.91	1.00	0.500	1.00	ug/L	1	"	2024-06-19	2024-06-20	"	
Lead	lmg	ND	0.500	0.250	0.500	ug/L	1	,,	2024-06-19	2024-06-20	"	
Antimony	lmg	ND	2.50	1.25	2.50	ug/L	1	"	2024-06-19	2024-06-20	"	
Selenium	lmg	1.85	1.00	0.500	1.00	ug/L	1	"	2024-06-19	2024-06-20	"	
Thallium	lmg	ND	0.500	0.250	0.500	ug/L	1	"	2024-06-19	2024-06-20	"	
Zinc	lmg	17.6	2.50	1.25	2.50	ug/L	1	,,	2024-06-19	2024-06-20	"	
	Analyst		SRL 0.00500	MDL	MRL 0.00500	Units	Prep Ratio	Batch 2416934	Prepared 2024-06-18	Analyzed 2024-06-18	Method EPA 245.7	Note
Mercury	nv	ND	0.00500	0.00180		Units ug/L		Batch 2416934	Prepared 2024-06-18	Analyzed 2024-06-18	Method EPA 245.7	Note
Mercury Conventional Chemistry Par	nv ameters b	ND by EPA	0.00500	0.00180			Ratio		-	-		Note
Analyte Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte	nv ameters b	ND by EPA	0.00500	0.00180			Ratio 1		-	-		
Mercury Conventional Chemistry Par North Texas Municipal Wate	nv ameters b	ND by EPA	0.00500 Method	0.00180 S	0.00500	ug/L	Ratio 1	2416934	2024-06-18	2024-06-18	EPA 245.7	
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N	ameters ber District	ND y EPA Result	0.00500 Method	0 0.00180 S MDL	0.00500 MRL	ug/L Units	Ratio 1 Prep Ratio	2416934 Batch	2024-06-18 Prepared	2024-06-18 Analyzed	EPA 245.7 Method	
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P	nv ameters b er District Analyst	ND Py EPA Result 1.50	0.00500 Method SRL 0.0500	S MDL 0.0500	0.00500 MRL 0.100	ug/L Units mg/L	Ratio 1 Prep Ratio 1	2416934 Batch 2416428	2024-06-18 Prepared 2024-06-12	2024-06-18 Analyzed 2024-06-13	Method EPA 350.1	
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P Total Kjeldal Nitrogen	nv ameters ber District Analyst ran hfs lac	ND Result 1.50 1.24 3.18	0.00500 Method SRL 0.0500 0.100 0.100	MDL 0.0500 0.0100 0.100	0.00500 MRL 0.100 0.0200	ug/L Units mg/L mg/L	Prep Ratio 1 10	2416934 Batch 2416428 2416409	Prepared 2024-06-12 2024-06-12	Analyzed 2024-06-13 2024-06-12	Method EPA 350.1 EPA 365.1	Note
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte	nv ameters ber District Analyst ran hfs lac ameters b	Result 1.50 1.24 3.18	0.00500 Method SRL 0.0500 0.100 0.100	MDL 0.0500 0.0100 0.100	0.00500 MRL 0.100 0.0200	ug/L Units mg/L mg/L	Prep Ratio 1 10	2416934 Batch 2416428 2416409	Prepared 2024-06-12 2024-06-12	Analyzed 2024-06-13 2024-06-12	Method EPA 350.1 EPA 365.1	
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P Total Kjeldal Nitrogen Conventional Chemistry Par	nv ameters ber District Analyst ran hfs lac ameters b	Result 1.50 1.24 3.18	0.00500 Method SRL 0.0500 0.100 0.100	MDL 0.0500 0.0100 0.100	0.00500 MRL 0.100 0.0200	ug/L Units mg/L mg/L	Prep Ratio 1 10 1	2416934 Batch 2416428 2416409	Prepared 2024-06-12 2024-06-12	Analyzed 2024-06-13 2024-06-12	Method EPA 350.1 EPA 365.1	
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P Total Kjeldal Nitrogen Conventional Chemistry Par North Texas Municipal Wate	ameters ber District Analyst ran hfs lac ameters ber District	Result 1.50 1.24 3.18	0.00500 Method SRL 0.0500 0.100 0.100 dard Me	MDL 0.0500 0.0100 0.100 thods	MRL 0.100 0.0200 0.200	ug/L Units mg/L mg/L mg/L	Prep Ratio 1 10 1	2416934 Batch 2416428 2416409 2416606	Prepared 2024-06-12 2024-06-12 2024-06-14	Analyzed 2024-06-13 2024-06-12 2024-06-14	Method EPA 350.1 EPA 365.1 EPA 351.2	Note
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P Total Kjeldal Nitrogen Conventional Chemistry Par North Texas Municipal Wate Analyte Total Alkalinity	nv ameters ber District Analyst ran hfs lac ameters ber District Analyst	Result 1.50 1.24 3.18 by Stand	0.00500 Method SRL 0.0500 0.100 0.100 dard Me	MDL 0.0500 0.0100 0.100 thods	0.00500 MRL 0.100 0.0200 0.200	ug/L Units mg/L mg/L mg/L	Prep Ratio 1 10 1 Prep Ratio	2416934 Batch 2416428 2416409 2416606	Prepared 2024-06-12 2024-06-12 2024-06-14 Prepared	Analyzed 2024-06-13 2024-06-12 2024-06-14 Analyzed	Method EPA 350.1 EPA 351.2 Method	Note
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P Total Kjeldal Nitrogen Conventional Chemistry Par North Texas Municipal Wate Analyte Total Alkalinity Carbonaceous Biochemical Oxygen Demand	ameters ber District Analyst ran hfs lac ameters ber District Analyst yjs	Result 1.50 1.24 3.18 y Stand	0.00500 Method SRL 0.0500 0.100 0.100 dard Me SRL 20.0 2.2	MDL 0.0500 0.0100 0.100 thods MDL 10.0 0.1	MRL 0.100 0.0200 0.200 MRL 20.0 2.0	ug/L Units mg/L mg/L mg/L	Prep Ratio 1 Prep Ratio 1 Prep Ratio 1	2416934 Batch 2416428 2416409 2416606 Batch 2416438	Prepared 2024-06-12 2024-06-14 Prepared 2024-06-14 2024-06-13 240612 1142	Analyzed 2024-06-13 2024-06-12 2024-06-14 Analyzed 2024-06-13 240617 0915	Method EPA 350.1 EPA 351.2 Method SM 2320B SM 5210B	Note
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P Total Kjeldal Nitrogen Conventional Chemistry Par North Texas Municipal Wate Analyte Total Alkalinity Carbonaceous Biochemical Oxygen Demand Total Dissolved Solids	ameters ber District Analyst ran hfs lac ameters ber District Analyst yjs	Result 1.50 1.24 3.18 y Stand	0.00500 Method SRL 0.0500 0.100 0.100 Mard Me SRL 20.0 2.2 5.00	MDL 0.0500 0.0100 0.100 thods MDL 10.0 0.1	MRL 0.100 0.0200 0.200 MRL 20.0 2.0	ug/L Units mg/L mg/L mg/L	Prep Ratio 1 Prep Ratio 1 Prep Ratio 1	Batch 2416428 2416409 2416606 Batch 2416438 2416405 2416424	Prepared 2024-06-12 2024-06-14 Prepared 2024-06-13 240612 1142 2024-06-12	Analyzed 2024-06-13 2024-06-12 2024-06-14 Analyzed 2024-06-13 240617 0915 2024-06-18	Method EPA 350.1 EPA 365.1 EPA 351.2 Method SM 2320B SM 5210B	Note
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P Total Kjeldal Nitrogen Conventional Chemistry Par North Texas Municipal Wate Analyte Total Alkalinity Carbonaceous Biochemical Oxygen Demand Total Dissolved Solids	ameters ber District Analyst ran hfs lac ameters ber District Analyst yjs sgr	Result 1.50 1.24 3.18 y Stand	0.00500 Method SRL 0.0500 0.100 0.100 dard Me SRL 20.0 2.2	MDL 0.0500 0.0100 0.100 thods MDL 10.0 0.1	MRL 0.100 0.0200 0.200 MRL 20.0 2.0	ug/L Units mg/L mg/L mg/L Units mg/L mg/L	Prep Ratio 1 10 1 Prep Ratio 1	Batch 2416428 2416409 2416606 Batch 2416438 2416405	Prepared 2024-06-12 2024-06-14 Prepared 2024-06-14 2024-06-13 240612 1142	Analyzed 2024-06-13 2024-06-12 2024-06-14 Analyzed 2024-06-13 240617 0915	Method EPA 350.1 EPA 351.2 Method SM 2320B SM 5210B	Note
Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P Total Kjeldal Nitrogen Conventional Chemistry Par North Texas Municipal Wate Analyte Total Alkalinity Carbonaceous Biochemical Oxygen Demand Total Dissolved Solids Total Suspended Solids	ameters ber District Analyst ran hfs lac ameters ber District Analyst yjs sgr pp	Result 1.50 1.24 3.18 y Stand	0.00500 Method SRL 0.0500 0.100 0.100 Mard Me SRL 20.0 2.2 5.00	MDL 0.0500 0.0100 0.100 thods MDL 10.0 0.1	MRL 0.100 0.0200 0.200 MRL 20.0 2.0	Units mg/L mg/L mg/L mg/L mg/L mg/L	Prep Ratio 1 10 1 Prep Ratio 1 10 1	Batch 2416428 2416409 2416606 Batch 2416438 2416405 2416424	Prepared 2024-06-12 2024-06-14 Prepared 2024-06-13 240612 1142 2024-06-12	Analyzed 2024-06-13 2024-06-12 2024-06-14 Analyzed 2024-06-13 240617 0915 2024-06-18	Method EPA 350.1 EPA 365.1 EPA 351.2 Method SM 2320B SM 5210B	Note
Mercury Conventional Chemistry Par North Texas Municipal Wate Analyte Ammonia as N Total Phosphate as P Total Kjeldal Nitrogen Conventional Chemistry Par North Texas Municipal Wate	nv ameters ber District Analyst ran hfs lac ameters ber District Analyst yjs sgr pp krg	Result 1.50 1.24 3.18 by Stance Result 140 ND 658 1.10	0.00500 Method SRL 0.0500 0.100 0.100 Mard Me SRL 20.0 2.2 5.00	MDL 0.0500 0.0100 0.100 thods MDL 10.0 0.1	MRL 0.100 0.0200 0.200 MRL 20.0 2.0	Units mg/L mg/L mg/L mg/L mg/L mg/L	Prep Ratio 1 10 1 Prep Ratio 1 10 1	Batch 2416428 2416409 2416606 Batch 2416438 2416405 2416424	Prepared 2024-06-12 2024-06-14 Prepared 2024-06-13 240612 1142 2024-06-12	Analyzed 2024-06-13 2024-06-12 2024-06-14 Analyzed 2024-06-13 240617 0915 2024-06-18	Method EPA 350.1 EPA 365.1 EPA 351.2 Method SM 2320B SM 5210B	Note

Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2421003-01 - Outfall: Effluent)

Anions by EPA 300 Series

Royse City, TEXAS 75189

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	97.4	10.0	0.500	1.00	mg/L	10	2417039	2024-06-19	2024-06-19	EPA 300.0	
Fluoride	mgc	0.638	0.020	0.010	0.020	mg/L	1	2416514	2024-06-13	2024-06-13	"	
Nitrate as N	tns	13.2	0.100	0.010	0.020	mg/L	5	2416410	240612 0949	240612 1824	"	
Sulfate	mgc	177	10.0	0.500	1.00	mg/L	10	2417039	2024-06-19	2024-06-19	"	

Carbamate and Urea Pesticides (HPLC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Diuron	yg	0.0546	0.00514	4 0.0514	0.0900	ug/L	1	166400	2024-06-17	2024-06-20	632	SUB
Carbaryl	vg	ND	0.185	1.85	5.00	ug/L	1	"	2024-06-17	2024-06-20	"	SUB

Herbicides (GC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2,4-Dichlorophenylacetic aci	d	62 %	6 4	15-150			1	166702	2024-06-18	2024-06-21	615	SUB
Silvex (2,4,5-TP)	wp	ND	0.0422	0.00004	4220.000200	ug/L	1	"	2024-06-18	2024-06-21	"	SUB
2,4-D	wp	ND	0.0539	0.0000	5390.000200	ug/L	1	"	2024-06-18	2024-06-21	"	SUB
Dalapon	wp	ND	0.0476	0.00004	47(0.000200	ug/L	1	"	2024-06-18	2024-06-21	"	SUB
Hexachlorophene	wp	ND	0.808	0.00080	08 0.00500	ug/L	1	"	2024-06-18	2024-06-21	"	*1,SUB
Dinoseb	wp	ND	0.0343	0.00003	3430.000200	ug/L	1	"	2024-06-18	2024-06-21	"	SUB
Dicamba	wp	ND	0.0423	0.00004	4230.000200	ug/L	1	"	2024-06-18	2024-06-21	"	SUB
Pentachlorophenol	wp	ND	0.0443	0.00004	4430.000200	ug/L	1	"	2024-06-18	2024-06-21	"	SUB

Organochlorine Pesticides in Water

Eurofins Dallas

Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
urr)	122 %		15-136			1	166167	2024-06-15	2024-06-18	EPA 608.3	SUB
	103 %		18-126			1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.001	07 0.00107	0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.000	9530.000953	0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.002	45 0.00245	0.250	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.003	89 0.00389	0.0180	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.001	56 0.00156	0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.001	18 0.00118	0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.002	99 0.00299	0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.001	22 0.00122	0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.001	09 0.00109	0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.001	42 0.00142	0.00900	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.003	79 0.00379	0.0200	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
als	ND	0.004	46 0.00446	0.00900	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
	als	als ND	als ND 0.001 als ND 0.003 als ND 0.003 als ND 0.003 als ND 0.001	als ND 0.00156 0.00156 als ND 0.0018 0.0018 als ND 0.00245 0.00245 als ND 0.00389 0.00389 als ND 0.00156 0.00156 als ND 0.00122 0.00122 als ND 0.00122 0.00109 als ND 0.00142 0.00142 als ND 0.00379 0.00379	als ND 0.00156 0.0018 0.0100 als ND 0.00180 0.00180 0.0180 als ND 0.00245 0.00245 0.250 als ND 0.00389 0.00389 0.0180 als ND 0.00186 0.00156 0.0100 als ND 0.00118 0.00118 0.0100 als ND 0.00122 0.00122 0.0100 als ND 0.00109 0.00109 0.0100 als ND 0.00142 0.00142 0.00900 als ND 0.00379 0.00379 0.0200	als ND 0.00156 0.00156 0.0100 ug/L als ND 0.00118 0.00118 0.0100 ug/L als ND 0.00245 0.00245 0.250 ug/L als ND 0.00389 0.00389 0.0180 ug/L als ND 0.00156 0.00156 0.0100 ug/L als ND 0.00118 0.00118 0.0100 ug/L als ND 0.00122 0.00122 0.0100 ug/L als ND 0.00122 0.00122 0.0100 ug/L als ND 0.00142 0.00142 0.00900 ug/L als ND 0.00379 0.00379 0.0200 ug/L	Analyst Result SRL MDL MRL Units Ratio 11 103 % 15-136 1 1 als ND 0.00107 0.00107 0.0100 ug/L 1 als ND 0.0009530.000953 0.0100 ug/L 1 als ND 0.00245 0.00245 0.250 ug/L 1 als ND 0.00389 0.00389 0.0180 ug/L 1 als ND 0.00156 0.00156 0.0100 ug/L 1 als ND 0.00118 0.00118 0.0100 ug/L 1 als ND 0.00299 0.00299 0.0100 ug/L 1 als ND 0.00122 0.00122 0.0100 ug/L 1 als ND 0.00109 0.00109 ug/L 1 als ND 0.00109 0.00109 ug/L 1 als ND 0.00142 0.00142 0.00900 ug/L 1 als ND 0.00379 0.00379 0.0200 ug/L 1	Analyst Result SRL MDL MRL Units Ratio 1 166167 103 % 18-126	Analyst Result SRL MDL MRL Units Ratio Batch Prepared (urr) 122 % 15-136	Analyst Result SRL MDL MRL Units Ratio Batch Prepared Analyzed 1177 122% 15-136 1 166167 2024-06-15 2024-06-18 103% 18-126 1 " 2024-06-15 2024-06-18 als ND 0.00107 0.00107 0.0100 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00245 0.00245 0.250 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00389 0.00389 0.0180 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00156 0.00156 0.0100 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00118 0.00118 0.0100 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00122 0.00122 0.0100 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00122 0.00122 0.0100 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00122 0.00122 0.0100 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00122 0.00122 0.0100 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00124 0.00124 0.00900 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00142 0.00142 0.00900 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00142 0.00142 0.00900 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00142 0.00142 0.00900 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.00142 0.00142 0.00900 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.000379 0.00379 0.0200 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.000379 0.00379 0.0200 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.000379 0.00379 0.0200 ug/L 1 " 2024-06-15 2024-06-18 als ND 0.000379 0.00379 0.0200 ug/L 1 " 2024-06-15 2024-06-18	Analyst Result SRC MDL MRL Onlis Ratio Batch Prepared Analyzed Method (17) 122 % 15-136

Project Number: SBX

Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2421003-01 - Outfall: Effluent)

Organochlorine Pesticides in Water

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Heptachlor epoxide	a1s	ND	0.00134	1 0.00134	0.0100	ug/L	1	166167	2024-06-15	2024-06-18	EPA 608.3	SUB
Endosulfan sulfate	als	ND	0.00112	0.00112	0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
Chlordane	als	ND	0.103	0.103	0.0400	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
Toxaphene	als	ND	0.0769	0.0769	0.100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
Aldrin	als	ND	0.00113	0.00113	0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
4,4'-DDD	als	ND	0.00081	140.000814	4 0.0100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
Dicofol	als	ND	0.05	0.000050	00.000100	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
Mirex	als	ND	0.02	0.000020	00.0000200	ug/L	1	"	2024-06-15	2024-06-18	"	SUB
Methoxychlor	a1s	ND	0.0039	0.000003	39.0000200	ug/L	1	"	2024-06-15	2024-06-18	"	*+,SUB

Polychlorinated Biphenyls (PCBs) (GC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: DCB Decachlorobiphenyl	(Surr)	115 %	6	15-136			1	"	2024-06-15	2024-06-17	"	p,SUB
Surrogate: Tetrachloro-m-xylene		68 %	6	18-126			1	"	2024-06-15	2024-06-17	"	SUB
PCB-1242	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2024-06-15	2024-06-17	"	SUB
PCB-1260	wp	ND	0.0078	0.00780	0.100	ug/L	1	"	2024-06-15	2024-06-17	"	SUB
PCB-1248	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2024-06-15	2024-06-17	"	SUB
PCB-1016	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2024-06-15	2024-06-17	"	*+,SUB
PCB-1221	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2024-06-15	2024-06-17	"	SUB
PCB-1232	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2024-06-15	2024-06-17	"	SUB
PCB-1254	wp	ND	0.0078	0.00780	0.100	ug/L	1	"	2024-06-15	2024-06-17	"	SUB
Polychlorinated biphenyls, Total	wp	ND	0.1	0.100	0.100	ug/L	1	"	2024-06-15	2024-06-17	"	SUB

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: p-Terphenyl-d14 (Surr)		91 %	6	20-141			1	165885	2024-06-14	2024-06-14	EPA 625.1	SUB
Surrogate: Nitrobenzene-d5 (Surr)		62 %	6	15-314			1	"	2024-06-14	2024-06-14	"	SUB
Surrogate: 2-Fluorobiphenyl (Surr)		65 %	6	29-112			1	"	2024-06-14	2024-06-14	"	SUB
Surrogate: 2,4,6-Tribromophenol (Surr)		85 %	6	31-132			1	"	2024-06-14	2024-06-14	"	SUB
Surrogate: Phenol-d5 (Surr)		15 %	6	8-424			1	"	2024-06-14	2024-06-14	"	SUB
Surrogate: 2-Fluorophenol (Surr)		24 %	6	28-114			1	"	2024-06-14	2024-06-14	"	S1-,SUB
4-Chlorophenyl phenyl ether	t1s	ND	1.28	1.28	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Bis(2-chloroethoxy)methane	t1s	ND	1.76	1.76	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2-Chloronaphthalene	t1s	ND	0.462	0.462	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2-Nitrophenol	t1s	ND	1.67	1.67	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2,4-Dichlorophenol	t1s	ND	0.314	0.314	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
N-Nitrosodi-n-propylamine	t1s	ND	2.88	2.88	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB

Project Number: SBX

Project Manager: Kristen Suprobo

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ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2421003-01 - Outfall: Effluent)

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Euromis Danas												
Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Diethyl phthalate	t1s	ND	1.59	1.59	5.00	ug/L	1	165885	2024-06-14	2024-06-14	EPA 625.1	SUB
Dibenz(a,h)anthracene	t1s	ND	0.246	0.246	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Dimethyl phthalate	t1s	ND	0.299	0.299	2.50	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Hexachlorobutadiene	t1s	ND	0.238	0.238	1.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2-Chlorophenol	t1s	ND	0.649	0.649	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Acenaphthene	t1s	ND	1.39	1.39	5.70	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Hexachlorocyclopentadiene	tls	ND	4.58	4.58	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2,4-Dinitrophenol	tls	ND	1.61	1.61	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
3,3'-Dichlorobenzidine	tls	ND	0.341	0.341	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
4,6-Dinitro-2-methylphenol	t1s	ND	1.44	1.44	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
4-Nitrophenol	t1s	ND	4.91	4.91	7.20	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2,4,6-Trichlorophenol	t1s	ND	1.42	1.42	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
4-Nonylphenol	t1s	ND	10	10.0	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2,6-Dinitrotoluene	t1s	ND	1.61	1.61	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Acenaphthylene	t1s	ND	1.41	1.41	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Anthracene	t1s	ND	1.5	1.50	5.70	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Benzo[g,h,i]perylene	t1s	ND	2.68	2.68	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Benzo[k]fluoranthene	t1s	ND	0.375	0.375	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
4-Chloro-3-methylphenol	t1s	ND	1.57	1.57	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2,4-Dimethylphenol	t1s	ND	0.649	0.649	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2,4,5-Trichlorophenol	t1s	ND	2	2.00	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	*+,SUB
Total Cresols	tls	ND	2.62	2.62	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
1,2-Diphenylhydrazine	t1s	ND	1.49	1.49	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Di-n-butyl phthalate	tls	ND	0.252	0.252	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Hexachlorobenzene	tls	ND	0.307	0.307	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Fluorene	tls	ND	1.63	1.63	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Nitrobenzene	tls	ND	1.66	1.66	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
N-Nitrosodiethylamine	tls	ND	1.75	1.75	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Fluoranthene	tls	ND	1.59	1.59	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Pyridine	tls	ND	2.64	2.64	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	*1,SUB
Azobenzene	tls	ND	1.5	1.50	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Benzo[a]pyrene	tls	ND	0.364	0.364	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Benzo[a]anthracene	tls	ND	0.173	0.173	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
N-Nitrosodimethylamine	tls	ND	2.02	2.02	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Benzidine	tls	ND	4.8	4.80	20.0	ug/L	1	"	2024-06-14	2024-06-14	"	*-, *1,SUB
Chrysene	tls	ND	0.222	0.222	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Hexachloroethane	t1s	ND	0.526	0.526	4.80	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
N-Nitrosodi-n-butylamine	t1s	ND	1.49	1.49	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Butyl benzyl phthalate	t1s	ND	0.337	0.337	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Di-n-octyl phthalate	t1s	ND	0.373	0.373	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB

Project Number: SBX

Project Manager: Kristen Suprobo

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ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2421003-01 - Outfall: Effluent)

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
2,4-Dinitrotoluene	t1s	ND	1.31	1.31	10.0	ug/L	1	165885	2024-06-14	2024-06-14	EPA 625.1	SUB
N-Nitrosodiphenylamine	t1s	ND	1.81	1.81	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Pentachlorobenzene	t1s	ND	1.07	1.07	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Phenanthrene	t1s	ND	1.42	1.42	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Phenol	t1s	ND	0.423	0.423	4.50	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Pyrene	t1s	ND	0.178	0.178	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2,2'-oxybis[1-chloropropane	tls	ND	1.79	1.79	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
]												
1,2,4,5-Tetrachlorobenzene	t1s	ND	1.32	1.32	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Bis(2-chloroethyl)ether	t1s	ND	2.16	2.16	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
4-Bromophenyl phenyl ether	t1s	ND	0.256	0.256	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Indeno[1,2,3-cd]pyrene	t1s	ND	2.29	2.29	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Naphthalene	t1s	ND	0.542	0.542	2.50	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Bis(2-ethylhexyl) phthalate	t1s	ND	0.277	0.277	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Benzo[b]fluoranthene	t1s	ND	2.04	2.04	10.0	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Isophorone	t1s	ND	1.64	1.64	5.00	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
2-Methylphenol	t1s	ND	1.62	0.00162	0.0100	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
Pentachlorophenol	t1s	ND	0.234	0.000234	10.0100	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
1,2,4-Trichlorobenzene	t1s	ND	1.61	0.00161	0.00500	ug/L	1	"	2024-06-14	2024-06-14	"	SUB
3 & 4 Methylphenol	tls	ND	2.62	0.00262	0.0100	ug/L	1	"	2024-06-14	2024-06-14	"	SUB

Semivolatile Organic Compounds (GC/MS) TICs

Eurofins Dallas

Analyte	Analys	st Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
2,3,7,8-TCDD TIC 01	t1s	ND	10			ug/L	1	"	2024-06-14	2024-06-14	625.1 TICs	SUB

Pesticides by 614

SPL

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Diazinon	kap	ND	0.0491			ug/L	0	1124933	2024-06-16	2024-06-20	EPA 614	SUB
Malathion	kap	0.284	0.0491			ug/L	0	"	2024-06-16	2024-06-20	"	SUB
Parathion, ethyl	kap	ND	0.0491			ug/L	0	"	2024-06-16	2024-06-20	"	SUB
Chlorpyrifos	kap	ND	0.0491			ug/L	0	"	2024-06-16	2024-06-20	"	SUB
Parathion, methyl	kap	ND	0.0491			ug/L	0	"	2024-06-16	2024-06-20	"	SUB
Demeton	kap	ND	0.0491			ug/L	0	"	2024-06-16	2024-06-20	"	SUB
Guthion	kap	ND	0.0491			ug/L	0	"	2024-06-16	2024-06-20	"	SUB

Effluent Equipment Blank (2421003-02 - Outfall: Equipment Blank)

Sabine Creek WWTP Project: Permit Renewal 1513 Crenshaw Rd Project Number: SBX

Project Manager: Kristen Suprobo Royse City, TEXAS 75189

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Effluent Equipment Blank (24210	03-02 - O	utfall: E	quipmen	t Blank)								
Total Mercury by EPA 245.7 North Texas Municipal Water	District											
Analyte Mercury	Analyst nv	Result ND	SRL 0.00500	MDL 0.00180	MRL 0.00500	Units ug/L	Prep Ratio 1	Batch 2416934	Prepared 2024-06-18	Analyzed 2024-06-18	Method EPA 245.7	Notes
Effluent G (2421003-03 - Outfall:	Effluent)											
Conventional Chemistry Param North Texas Municipal Water		y Field	Personi	nel								
Analyte Residual Chlorine Conductance at 25°C Dissolved Oxygen pH Temperature	Analyst ed/yz ed/yz ed/yz ed/yz ed/yz ed/yz	Result 0.0700 898.0 7.85 7.17 24.7	SRL 0.0400 2.000	MDL	MRL 0.0400 2.000	Units mg/L uS/cm mg/L pH/SU °C	Prep Ratio 1 1 1 1	Batch 2416419 " " " " " "	Prepared 240612 0855 2024-06-12 240612 0855 240612 0855 240612 0855	Analyzed 240612 0855 2024-06-12 240612 0855 240612 0855 240612 0855	Method 4500-Cl-G SM 2510B SM 4500-O-G SM 4500-H-B SM 2550B	Notes AccFD AccFD AccFD AccFD AccFD
Coliform by Quantitray North Texas Municipal Water	District											
Analyte Escherichia Coliform	Analyst srb	Result ND	SRL 1.0	MDL 1.0	MRL 1.0	Units MPN/10 0mL	Prep Ratio 1	Batch 2416417	Prepared 240612 1127	Analyzed 240613 1127	Method MPN E-Coli	Notes
Chromium, Hexavalent Eurofins Dallas												
Analyte Cr (VI)	Analyst knw	Result 8.41	SRL 2.8	MDL 2.80	MRL 10.0	Units ug/L	Prep Ratio 1	Batch 20665	Prepared 2024-06-12	Analyzed 2024-06-12	Method 7196A	Notes Ja,SUB
Chromium, Trivalent Eurofins Dallas												
Analyte Cr (III)	Analyst jdm	Result ND	SRL 2	MDL	MRL	Units ug/L	Prep Ratio 1	Batch 167182	Prepared 2024-06-24	Analyzed 2024-06-24	Method SM 3500 CR B	Notes SUB
Cyanide, Amenable Eurofins Dallas												
Analyte Cyanide, Amenable	Analyst mc	Result ND	SRL 2.33	MDL	MRL	Units ug/L	Prep Ratio 1	Batch 166127	Prepared 2024-06-18	Analyzed 2024-06-18	Method SM 4500 CN G	Notes SUB
Cyanide, Non-amenable Eurofins Dallas												
Analyte Cyanide, Non-amenable	Analyst ld	Result 4.71	SRL 2.33	MDL 2.33	MRL 5.00	Units ug/L	Prep Ratio 1	Batch 166088	Prepared 2024-06-14	Analyzed 2024-06-14	Method 4500 CN G NonAm	Notes Ja,SUB

Sabine Creek WWTPProject:Permit Renewal1513 Crenshaw RdProject Number:SBX

D : AM W : A G

Project Manager: Kristen Suprobo 2024-07-30 15:41

Reported:

ANALYTICAL REPORT FOR SAMPLES

Effluent G (2421003-03 - Outfall:	Effluent)											
Cyanide, Total Eurofins Dallas												
Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cyanide, Total	ld	3.19	2	2.00	5.00	ug/L	1	165820	2024-06-13	2024-06-13	335.4	Ja,SUB
HEM and SGT-HEM Eurofins Dallas												
Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Oil & Grease (Hexane Extr)	knw	1550		1.14	5.00	ug/L	1	20759	2024-06-18	2024-06-18	1664B	Ja,SUB
Metals (ICP/MS) Total Recov	erable											
Eurofins Dallas												
Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cr	dp	0.401	0.325	0.00032	25 0.00300	ug/L	1	166273	2024-06-17	2024-06-17	200.8	Ja,SUB
Phenolics, Total Recoverable												
Eurofins Dallas												
Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Phenols, Total	sc	ND	5.8	5.80	10.0	ug/L	1	167198	2024-06-19	2024-06-19	420.4	SUB

Volatile Organic Compounds (GC/MS)

Eurofins Dallas

Royse City, TEXAS 75189

Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
	99 %	6	61-132			1	20655	2024-06-12	2024-06-12	EPA 624.1	SUB
	105 %	6	76-119			1	"	2024-06-12	2024-06-12	"	SUB
	100 %	ó	74-130			1	"	2024-06-12	2024-06-12	"	SUB
	101 %	6	76-118			1	"	2024-06-12	2024-06-12	"	SUB
mc	4.34	1.61	0.00161	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	Ja,SUB
mc	ND	0.593	0.000593	3 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	0.941	0.000941	1 0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	0.885	0.000885	5 0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	1.53	0.00153	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	1.13	0.00113	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	1.55	0.00155	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	0.829	0.000829	9 0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	2.68	0.00268	0.0100	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	0.927	0.000927	7 0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	0.488	0.000488	8 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	0.9	0.000900	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	0.631	0.000631	1 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	0.603	0.000603	3 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	23.1	0.0231	0.0500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
mc	ND	7.8	0.00780	0.0500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
	mc m	105 % 100 % 100 % 101 % mc	99 % 105 % 100 % 100 % 100 101 % mc	99 % 61-132 105 % 76-119 100 % 74-130 101 % 76-118 mc 4.34 1.61 0.00161 mc ND 0.593 0.000593 mc ND 0.941 0.00094 mc ND 0.885 0.000883 mc ND 1.53 0.00153 mc ND 1.13 0.00113 mc ND 1.55 0.00155 mc ND 0.829 0.000829 mc ND 0.829 0.000829 mc ND 0.927 0.00092 mc ND 0.488 0.000483 mc ND 0.927 0.00092 mc ND 0.488 0.000483 mc ND 0.99 0.000900 mc ND 0.631 0.00063 mc ND 0.603 0.000603 mc ND 0.603 0.000603	99 % 61-132 105 % 76-119 100 % 74-130 101 % 76-118 mc 4.34 1.61 0.00161 0.00500 mc ND 0.593 0.000593 0.00200 mc ND 0.885 0.000885 0.00500 mc ND 1.53 0.00153 0.00500 mc ND 1.13 0.00113 0.00500 mc ND 1.55 0.00155 0.00500 mc ND 0.829 0.000829 0.00500 mc ND 0.829 0.000829 0.00500 mc ND 0.927 0.000927 0.00500 mc ND 0.927 0.000927 0.00500 mc ND 0.488 0.000488 0.00200 mc ND 0.9 0.000900 0.00500 mc ND 0.603 0.000603 0.00200	99 % 61-132 105 % 76-119 100 % 74-130 101 % 76-118 mc	Part	Part	100 % 74-130 1	Prepare	Second S

Project Number: SBX

Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Effluent G (2421003-03 - Outfall: Effluent)

Volatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Bromomethane	mc	ND	1.88	0.00188	0.00500	ug/L	1	20655	2024-06-12	2024-06-12	EPA 624.1	SUB
Bromoform	mc	ND	1.33	0.00133	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Carbon tetrachloride	mc	ND	1.26	0.00126	0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Bromodichloromethane	mc	ND	0.696	0.000696	6 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Ethylbenzene	mc	ND	0.878	0.000878	3 0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Chlorobenzene	mc	ND	0.945	0.000945	5 0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
1,1,2-Trichloroethane	mc	ND	0.747	0.000747	7 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Acetone	mc	ND	21.3	0.0213	0.0500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
2-Chloroethyl vinyl ether	mc	ND	1.2	0.00120	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
1,4-Dichlorobenzene	mc	ND	0.637	0.000637	7 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
1,3-Dichlorobenzene	mc	ND	1.08	0.00108	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Chloroethane	mc	ND	1.45	0.00145	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Chloroform	mc	ND	1.21	0.00121	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Benzene	mc	ND	0.496	0.000496	6 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Dibromochloromethane	mc	ND	1.75	0.00175	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Vinyl acetate	mc	ND	1.69	0.00169	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Trichlorofluoromethane	mc	ND	1.24	0.00124	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Trichloroethene	mc	ND	1.69	0.00169	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
trans-1,3-Dichloropropene	mc	ND	1.95	0.00195	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
m,p-Xylenes	mc	ND	1.13	0.00113	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
2-Butanone	mc	ND	4.53	0.00453	0.0200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
trans-1,2-Dichloroethene	mc	ND	0.903	0.000903	3 0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Vinyl chloride	mc	ND	0.592	0.000592	2 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
1,3-Dichloropropene, Total	mc	ND	1.95	0.00195	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
cis-1,2-Dichloroethene	mc	ND	0.796	0.000796	6 0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
1,1,1-Trichloroethane	mc	ND	1.45	0.00145	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
1,1,2,2-Tetrachloroethane	mc	ND	1.71	0.00171	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
1,1-Dichloroethane	mc	ND	1.03	0.00103	0.00500	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
1,1-Dichloroethene	mc	ND	0.575	0.000575	5 0.00200	ug/L	1	"	2024-06-12	2024-06-12	"	SUB
Trihalomethanes, Total	mc	ND	1.75	1.75	5.00	ug/L	1	"	2024-06-12	2024-06-12	"	SUB

Sabine Creek WWTP Project: Permit Renewal

1513 Crenshaw RdProject Number:SBXReported:Royse City, TEXAS 75189Project Manager:Kristen Suprobo2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Trip Blank (2421003-04 - Outfall: Trip Blank)

Total Mercury by EPA 245.7

North Texas Municipal Water District

Analyse Analyse Result SRL MDL MRL Units Prepared Analyzed Method Notes

Mercury nv ND 0.00500 0.00180 0.00500 ug/L 1 2416934 2024-06-18 2024-06-18 EPA 245.7

Sabine Creek WWTP Project: Permit Renewal

1513 Crenshaw Rd Project Number: SBX Reported: 2024-07-30 15:41 Royse City, TEXAS 75189 Project Manager: Kristen Suprobo

ANALYTICAL REPORT FOR SAMPLES

Total Metals by EPA 200.8 - Quality Control North Texas Municipal Water District

				Spike		Source		%REC		RPD	
Analyte	Result	AQL	Units	Level	MDL	Result	%REC	Limits	RPD	Limit	Notes

Blank (2417014-BLK1)					Prepared: 202	4-06-19 Analyzed: 2	2024-06-20			
Aluminum	ND	2.50	ug/L		1.25					
arsenic	ND	0.500	"		0.250					
arium	ND	1.00	"		0.500					
admium	ND	1.00	"		0.500					
opper	ND	1.00	"		0.500					
ead	ND	0.500	"		0.250					
ickel	ND	1.00	"		0.500					
elenium	ND	1.00	"		0.500					
lver	ND	0.500	"		0.250					
nc	ND	2.50	"		1.25					
ntimony	ND	2.50	"		1.25					
allium	ND	0.500	"		0.250					
nromium	ND	2.50	"		1.25					
CS (2417014-BS1)					Prepared: 202	4-06-19 Analyzed: 2	2024-06-20			
luminum	47.4	2.50	ug/L	50.0	1.25	94.8	85-115			
rsenic	48.9	0.500	"	50.0	0.250	97.9	85-115			
nrium	48.9	1.00	"	50.0	0.500	97.8	85-115			
dmium	49.9	1.00	"	50.0	0.500	99.7	85-115			
ppper	51.0	1.00	"	50.0	0.500	102	85-115			
ad	46.4	0.500	"	50.0	0.250	92.8	85-115			
ckel	49.4	1.00	"	50.0	0.500	98.8	85-115			
lenium	49.2	1.00	"	50.0	0.500	98.3	85-115			
lver	50.7	0.500	"	50.0	0.250	101	85-115			
ne	49.9	2.50	"	50.0	1.25	99.8	85-115			
ntimony	43.5	2.50	"	50.0	1.25	86.9	85-115			
nallium	50.3	0.500	"	50.0	0.250	101	85-115			
hromium	47.2	2.50	"	50.0	1.25	94.5	85-115			
CS Dup (2417014-BSD1)					Prepared: 202	4-06-19 Analyzed: 2	2024-06-20			
uminum	46.2	2.50	ug/L	50.0	1.25	92.3	85-115	2.65	20	
rsenic	48.4	0.500	"	50.0	0.250	96.8	85-115	1.05	20	
arium	48.5	1.00	"	50.0	0.500	97.0	85-115	0.811	20	
admium	49.5	1.00	"	50.0	0.500	99.0	85-115	0.750	20	
opper	49.9	1.00	"	50.0	0.500	99.7	85-115	2.22	20	
ad	45.8	0.500	"	50.0	0.250	91.7	85-115	1.19	20	
ckel	48.4	1.00	"	50.0	0.500	96.8	85-115	2.01	20	
lenium	49.0	1.00	"	50.0	0.500	98.0	85-115	0.364	20	
lver	50.6	0.500	"	50.0	0.250	101	85-115	0.256	20	
nc	49.6	2.50	"	50.0	1.25	99.1	85-115	0.613	20	
ntimony	45.3	2.50	"	50.0	1.25	90.6	85-115	4.08	20	
Thallium	50.3	0.500	"	50.0	0.250	101	85-115	0.0540	20	

Sabine Creek WWTP Project: Permit Renewal

Royse City, TEXAS 75189 Project Manager: Kristen Suprobo

1513 Crenshaw Rd Project Number: SBX Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Total Metals by EPA 200.8 - Quality Control North Texas Municipal Water District

				Spike		Source		%REC		RPD	
Analyte	Result	AQL	Units	Level	MDL	Result	%REC	Limits	RPD	Limit	Notes

LCS Dup (2417014-BSD1)					Prepared:	2024-06-19	Analyzed:	2024-06-20			
Chromium	46.6	2.50	ug/L	50.0	1.25		93.2	85-115	1.30	20	
Matrix Spike (2417014-MS1)		Sour	ce: 2425019-02		Prepared:	2024-06-19	Analyzed	2024-06-20			
Aluminum	87.8	2.50	ug/L	50.0	1.25	36.7	102	70-130			
Arsenic	55.9	0.500	"	50.0	0.250	4.99	102	70-130			
Barium	97.7	1.00	"	50.0	0.500	49.8	95.7	70-130			
Cadmium	50.2	1.00	"	50.0	0.500	ND	100	70-130			
Copper	48.4	1.00	"	50.0	0.500	1.15	94.5	70-130			
Lead	43.9	0.500	"	50.0	0.250	0.256	87.3	70-130			
Nickel	50.9	1.00	"	50.0	0.500	3.55	94.7	70-130			
Selenium	53.1	1.00	"	50.0	0.500	0.746	105	70-130			
Silver	39.1	0.500	"	50.0	0.250	ND	78.3	70-130			
Zinc	52.8	2.50	"	50.0	1.25	3.33	98.9	70-130			
Antimony	44.8	2.50	"	50.0	1.25	1.66	86.2	70-130			
Thallium	48.8	0.500	"	50.0	0.250	ND	97.5	70-130			
Chromium	46.7	2.50	"	50.0	1.25	ND	93.4	70-130			
Matrix Spike (2417014-MS2)		Sour	ce: 2425019-08		Prepared:	2024-06-19	Analyzed:	2024-06-20			
Aluminum	53.7	2.50	ug/L	50.0	1.25	3.29	101	70-130			
Arsenic	52.4	0.500	"	50.0	0.250	0.530	104	70-130			
Barium	89.7	1.00	"	50.0	0.500	44.1	91.0	70-130			
Cadmium	50.6	1.00	"	50.0	0.500	ND	101	70-130			
Copper	49.0	1.00	"	50.0	0.500	1.10	95.7	70-130			
Lead	44.6	0.500	"	50.0	0.250	ND	89.1	70-130			
Nickel	54.3	1.00	"	50.0	0.500	6.06	96.5	70-130			
Selenium	55.3	1.00	"	50.0	0.500	0.562	109	70-130			
Silver	49.5	0.500	"	50.0	0.250	ND	99.0	70-130			
Zinc	51.1	2.50	"	50.0	1.25	ND	102	70-130			
Antimony	50.6	2.50	"	50.0	1.25	ND	101	70-130			CCBJ
Thallium	50.1	0.500	"	50.0	0.250	ND	100	70-130			
Chromium	48.7	2.50	"	50.0	1.25	ND	97.5	70-130			
Matrix Spike Dup (2417014-MSD1)		Sour	ce: 2425019-02		Prepared:	2024-06-19	Analyzed:	2024-06-20			
Aluminum	98.8	2.50	ug/L	50.0	1.25	36.7	124	70-130	11.8	20	
Arsenic	57.5	0.500	"	50.0	0.250	4.99	105	70-130	2.75	20	
Barium	101	1.00	"	50.0	0.500	49.8	103	70-130	3.81	20	
Cadmium	51.4	1.00	"	50.0	0.500	ND	103	70-130	2.43	20	

0.500

0.250

0.500

0.500

0.250

50.0

50.0

50.0

50.0

50.0

1.00

0.500

1.00

1.00

0.500

50.3

45.3

52.5

54.2

43.1

North Texas Municipal Water District

Copper

Lead

Nickel

Silver

Selenium

70-130

70-130

70-130

70-130

70-130

3.89

3.26

3.15

2.09

9.61

20

20

20

20

20

98.4

90.2

98.0

107

86.2

1.15

0.256

3.55

0.746

ND

Sabine Creek WWTPProject:Permit Renewal1513 Crenshaw RdProject Number:SBX

Royse City, TEXAS 75189 Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Total Metals by EPA 200.8 - Quality Control North Texas Municipal Water District

Analyte Batch 2417014 - [200.8 Digestion] Dige		•	Units	Level	MDL						
Date: 241/014 - [200.8 Digestion] Dige	stad darms	ta 10mT	at 05°C								
Matrix Spike Dup (2417014-MSD1)	stea aown		e: 2425019-02		Prepared:	2024-06-19	Analyzed	2024-06-20			
Zinc	54.9	2.50	ug/L	50.0	1.25	3.33	103	70-130	4.02	20	
Antimony	45.9	2.50	"	50.0	1.25	1.66	88.5	70-130	2.51	20	
Гhallium	50.3	0.500	"	50.0	0.250	ND	101	70-130	3.17	20	
Chromium	48.5	2.50	"	50.0	1.25	ND	96.9	70-130	3.71	20	
Matrix Spike Dup (2417014-MSD2)		Sourc	e: 2425019-08		Prepared:	2024-06-19	Analyzed:	2024-06-20			
Aluminum	54.6	2.50	ug/L	50.0	1.25	3.29	103	70-130	1.64	20	
Arsenic	53.5	0.500	"	50.0	0.250	0.530	106	70-130	2.04	20	
Barium	93.1	1.00	"	50.0	0.500	44.1	98.0	70-130	3.81	20	
Cadmium	52.2	1.00	"	50.0	0.500	ND	104	70-130	3.21	20	
Copper	50.2	1.00	"	50.0	0.500	1.10	98.2	70-130	2.50	20	
Lead	46.2	0.500	"	50.0	0.250	ND	92.4	70-130	3.63	20	
Nickel	55.4	1.00	"	50.0	0.500	6.06	98.8	70-130	2.09	20	
Selenium	56.5	1.00	"	50.0	0.500	0.562	112	70-130	2.04	20	
Silver	45.6	0.500	"	50.0	0.250	ND	91.3	70-130	8.14	20	
Zinc	52.2	2.50	"	50.0	1.25	ND	104	70-130	2.21	20	
Antimony	51.4	2.50	"			ND	103	70-130	1.62	20	CCI
Fhallium	51.7	0.500	"	50.0	1.25	ND	103	70-130	3.12	20	CCI
Chromium	49.6	2.50	"	50.0 50.0	0.250 1.25	ND ND	99.2	70-130	1.74	20	
Batch 2417306 - [200.8 Digestion] Dige	sted down		at 95°C	20.0	1.25						
Blank (2417306-BLK1)	sted down	io Tomic			Prepared:	2024-06-27	Analyzed:	2024-07-02			
Beryllium	ND	0.500	ug/L		0.250						
LCS (2417306-BS1)					Prepared:	2024-06-27	Analyzed:	2024-07-02			
Beryllium	49.5	0.500	ug/L	50.0	0.250		99.0	85-115			
LCS Dup (2417306-BSD1)					Prepared:	2024-06-27	Analyzed:	2024-07-02			
Beryllium	49.3	0.500	ug/L	50.0	0.250		98.6	85-115	0.423	20	
Matrix Spike (2417306-MS1)		Sourc	e: 2425087-01		Prepared:	2024-06-27	Analyzed:	2024-07-02			
Beryllium	53.8	0.500	ug/L	50.0	0.250	ND	108	70-130			
Matrix Spike (2417306-MS2)		Sourc	e: 2426086-01		Prepared:	2024-06-27	Analyzed:	2024-07-02			
Beryllium	52.6	0.500	ug/L	50.0	0.250	ND	105	70-130			
Matrix Spike Dup (2417306-MSD1)		Sourc	e: 2425087-01		Prepared:	2024-06-27	Analyzed:	2024-07-02			
Beryllium	54.3	0.500	ug/L	50.0	0.250	ND	109	70-130	0.785	20	
Matrix Spike Dup (2417306-MSD2)		Sourc	e: 2426086-01		Prepared:	2024-06-27	Analyzed:	2024-07-02			
-1401 1A Spine Dup (2-11/200-11/3D2)		0.500	ug/L	50.0	0.250	ND	107	70-130	1.92	20	

Sabine Creek WWTP Project: Permit Renewal

Project Number: SBX

1513 Crenshaw Rd Reported: Royse City, TEXAS 75189 Project Manager: Kristen Suprobo 2024-07-30 15:41

ANALYTICAL REPORT FOR SA	MPLI	ES
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				Spike		Source		%REC		RPD	
Analyte	Result .	AQL	Units	Level	MDL	Result	%REC	Limits	RPD	Limit	Notes

Batch 2416934 - [245.7 Digestion] 245.7 Digestion

Datch 2410/34 - [243.7 Digestion] 24.	3.7 Digestion										
Blank (2416934-BLK1)					Prepared &	Analyzed:	2024-06-1	8			
Mercury	ND	0.00500	ug/L		0.00180						
MRL Check (2416934-MRL1)					Prepared &	Analyzed:	2024-06-1	8			
Mercury	0.00526	0.00500	ug/L	0.00500	0.00180		105	50-150			
Matrix Spike (2416934-MS1)		Sourc	e: 2421003-04		Prepared &	Analyzed:	2024-06-1	8			
Mercury	0.0106	0.00500	ug/L	0.0100	0.00180	ND	106	63-111			
Matrix Spike (2416934-MS2)		Sourc	e: 2424009-07		Prepared &	Analyzed:	2024-06-1	8			
Mercury	0.0106	0.00500	ug/L	0.0100	0.00180	ND	106	63-111			
Matrix Spike Dup (2416934-MSD1)		Sourc	e: 2421003-04		Prepared &	Analyzed:	2024-06-1	8			
Mercury	0.0109	0.00500	ug/L	0.0100	0.00180	ND	109	63-111	2.23	18	
Matrix Spike Dup (2416934-MSD2)		Sourc	e: 2424009-07		Prepared &	Analyzed:	2024-06-1	8			
Mercury	0.0107	0.00500	ug/L	0.0100	0.00180	ND	107	63-111	1.05	18	

Conventional Chemistry Parameters by EPA Methods - Quality Control North Texas Municipal Water District

				Spike		Source		%REC		RPD	
Analyte	Result	AQL	Units	Level	MDL	Result	%REC	Limits	RPD	Limit	Notes

Batch 2416409 - [365.1 PO4 Digestion] 365.3 PO4 Digestion

Blank (2416409-BLK1)					Prepared &	& Analyzed:	2024-06-1	2			
Total Phosphate as P	ND	0.0200	mg/L		0.0100						
LCS (2416409-BS1)					Prepared &	& Analyzed:	2024-06-1	2			
Total Phosphate as P	0.0980	0.0200	mg/L	0.100	0.0100		98.0	90-110			
LCS Dup (2416409-BSD1)					Prepared &	& Analyzed:	2024-06-1	2			
Total Phosphate as P	0.0970	0.0200	mg/L	0.100	0.0100		97.0	90-110	1.03	10	
Matrix Spike (2416409-MS1)		Sourc	e: 2424134-02		Prepared &	& Analyzed:	2024-06-1	2			
Total Phosphate as P	1.64	0.200	mg/L	1.00	0.100	0.710	93.0	90-110			
Matrix Spike (2416409-MS2)		Sourc	e: 2424136-01		Prepared &	& Analyzed:	2024-06-1	2			
Matrix Spike (2416409-MS2) Total Phosphate as P	7.22	Sourc 0.500	e: 2424136-01 mg/L	2.50	Prepared 8	& Analyzed: 4.60	2024-06-1 105	90-110			
	7.22	0.500		2.50	0.250		105	90-110			
Total Phosphate as P	7.22	0.500	mg/L	2.50	0.250	4.60	105	90-110	3.00	10	
Total Phosphate as P Matrix Spike Dup (2416409-MSD1)		0.500 Source 0.200	mg/L e: 2424134-02		0.250 Prepared 8	4.60 & Analyzed:	105 2024-06-1 98.0	90-110	3.00	10	
Total Phosphate as P Matrix Spike Dup (2416409-MSD1) Total Phosphate as P		0.500 Source 0.200	mg/L e: 2424134-02 mg/L		0.250 Prepared 8	4.60 & Analyzed: 0.710	105 2024-06-1 98.0	90-110	3.00	10	
Total Phosphate as P Matrix Spike Dup (2416409-MSD1) Total Phosphate as P Matrix Spike Dup (2416409-MSD2)	1.69	0.500 Source 0.200 Source	mg/L e: 2424134-02 mg/L e: 2424136-01	1.00	0.250 Prepared 8 0.100 Prepared 8 0.250	4.60 & Analyzed: 0.710 & Analyzed:	105 2024-06-1: 98.0 2024-06-1: 106	90-110 2 90-110 2 90-110		-	

Batch 2416428 - [350.1 NH3 w/o Distillation] 350.1 NH3 without Distillation

Blank (2416428-BLK1)	Prepared: 2024-06-12 Analyzed: 2024-06-13

Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Conventional Chemistry Parameters by EPA Methods - Quality Control North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2416428 - [350.1 NH3 w/o Distilla	ntion] 350.	1 NH3 w	rithout Distilla	tion							
Blank (2416428-BLK1)					Prepared:	2024-06-12 A	Analyzed: 2	2024-06-13			
Ammonia as N	ND	0.100	mg/L		0.0500						
LCS (2416428-BS1)					Prepared:	2024-06-12 A	Analyzed: 2	2024-06-13			
Ammonia as N	2.01	0.100	mg/L	2.00	0.0500		101	90-110			
LCS Dup (2416428-BSD1)					Prepared:	2024-06-12 A	Analyzed: 2	2024-06-13			
Ammonia as N	2.01	0.100	mg/L	2.00	0.0500		100	90-110	0.199	10	
Matrix Spike (2416428-MS1)		Sourc	ce: 2424135-01		Prepared:	2024-06-12 A	Analyzed: 2	2024-06-13			
Ammonia as N	64.4	2.00	mg/L	40.0	1.00	24.8	99.1	90-110			
Matrix Spike (2416428-MS2)		Sourc	ce: 2424139-01		Prepared:	2024-06-12 A	Analyzed: 1	2024-06-13			
Ammonia as N	66.9	2.00	mg/L	40.0	1.00	26.5	101	90-110			
Matrix Spike Dup (2416428-MSD1)		Soure	ce: 2424135-01		Prepared.	2024-06-12 A	\nalvzed· '	2024-06-13			
Ammonia as N	65.0	2.00	mg/L	40.0	1.00	24.8	101	90-110	0.896	10	
Matuiv Spiles Dup (2415429 MSD2)		Can			Dranarad.	2024-06-12 A	\nalvzad.	2024 06 12			
Matrix Spike Dup (2416428-MSD2) Ammonia as N	65.1	2.00	mg/L	40.0	1.00	26.5	96.6	90-110	2.73	10	
				40.0	1.00						
Batch 2416606 - [351.2 TKN Digestion]	351.2 TK	N Digesti	ion								
Blank (2416606-BLK1)					Prepared a	& Analyzed:	2024-06-1	4			
Total Kjeldal Nitrogen	ND	0.200	mg/L		0.100						
LCS (2416606-BS1)					Prepared a	& Analyzed: 2	2024-06-1	4			
Total Kjeldal Nitrogen	1.99	0.200	mg/L	2.00	0.100		99.6	90-110			
LCS Dup (2416606-BSD1)											
					Prepared a	& Analyzed: 2	2024-06-1	4			
Total Kjeldal Nitrogen	1.96	0.200	mg/L	2.00	Prepared 6	& Analyzed: 2	98.0	90-110	1.62	10	
	1.96	0.200	mg/L	2.00	0.100	& Analyzed: 2	98.0	90-110	1.62	10	
LOQ Check Standard (2416606-MRL1)	0.179	0.200	mg/L	2.00	0.100	•	98.0	90-110	1.62	10	
LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen		0.200			0.100 Prepared 6	& Analyzed: 2	98.0 2024-06-14 89.5	90-110 4 70-130	1.62	10	_
LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS1)		0.200	mg/L		0.100 Prepared 6	•	98.0 2024-06-14 89.5	90-110 4 70-130	1.62	10	
LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS1) Total Kjeldal Nitrogen	0.179	0.200 Source 0.200	mg/L ee: 2424010-01 mg/L	0.200	0.100 Prepared of 0.100 Prepared of 0.100	& Analyzed: 2 & Analyzed: 2 0.649	98.0 2024-06-1- 89.5 2024-06-1- 98.0	90-110 4 70-130 4 90-110	1.62	10	
Total Kjeldal Nitrogen LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS2) Total Kjeldal Nitrogen	0.179	0.200 Source 0.200	mg/L	0.200	0.100 Prepared of 0.100 Prepared of 0.100	& Analyzed: 2	98.0 2024-06-1- 89.5 2024-06-1- 98.0	90-110 4 70-130 4 90-110	1.62	10	
LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS2) Total Kjeldal Nitrogen	0.179	0.200 Source 0.200 Source 0.200	mg/L ee: 2424010-01 mg/L ee: 2424012-02 mg/L	0.200	0.100 Prepared a 0.100 Prepared a 0.100 Prepared a 0.100 Online	& Analyzed: 2 & Analyzed: 2 0.649 & Analyzed: 2 0.614	98.0 2024-06-1- 89.5 2024-06-1- 98.0 2024-06-1- 102	90-110 4 70-130 4 90-110 4 90-110	1.62	10	
LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS2) Total Kjeldal Nitrogen Matrix Spike Dup (2416606-MSD1)	2.61 2.66	0.200 Source 0.200 Source 0.200 Source	mg/L ce: 2424010-01 mg/L ce: 2424012-02 mg/L ce: 2424010-01	0.200 2.00 2.00	0.100 Prepared a 0.100	& Analyzed: 2 & Analyzed: 2 0.649 & Analyzed: 2 0.614 & Analyzed: 2	98.0 2024-06-1-89.5 2024-06-1-98.0 2024-06-1-102	90-110 4 70-130 4 90-110 4 90-110 4			
LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS2) Total Kjeldal Nitrogen Matrix Spike Dup (2416606-MSD1) Total Kjeldal Nitrogen	0.179	0.200 Source 0.200 Source 0.200 Source 0.200	mg/L ee: 2424010-01 mg/L ee: 2424012-02 mg/L ee: 2424010-01 mg/L	0.200	0.100 Prepared a 0.100	& Analyzed: 2	98.0 2024-06-1- 89.5 2024-06-1- 98.0 2024-06-1- 102 2024-06-1- 100	90-110 4 70-130 4 90-110 4 90-110 4 90-110	1.62	10	
LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS2) Total Kjeldal Nitrogen Matrix Spike Dup (2416606-MSD1) Total Kjeldal Nitrogen Matrix Spike Dup (2416606-MSD2)	2.61 2.66 2.66	0.200 Source 0.200 Source 0.200 Source 0.200 Source 0.200	mg/L ce: 2424010-01 mg/L ce: 2424012-02 mg/L ce: 2424010-01 mg/L ce: 2424012-02	0.200 2.00 2.00 2.00	0.100 Prepared a 0.100	& Analyzed: 2 & Analyzed: 2 0.649 & Analyzed: 2 0.614 & Analyzed: 2 0.649 & Analyzed: 2	98.0 2024-06-1- 89.5 2024-06-1- 98.0 2024-06-1- 102 2024-06-1- 100 2024-06-1-	90-110 4 70-130 4 90-110 4 90-110 4 90-110 4	1.79	10	
LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS2) Total Kjeldal Nitrogen Matrix Spike Dup (2416606-MSD1) Total Kjeldal Nitrogen Matrix Spike Dup (2416606-MSD2) Total Kjeldal Nitrogen	2.61 2.66	0.200 Source 0.200 Source 0.200 Source 0.200	mg/L ee: 2424010-01 mg/L ee: 2424012-02 mg/L ee: 2424010-01 mg/L	0.200 2.00 2.00	0.100 Prepared a 0.100	& Analyzed: 2	98.0 2024-06-1- 89.5 2024-06-1- 102 2024-06-1- 100 2024-06-1- 104	90-110 4 70-130 4 90-110 4 90-110 4 90-110 4			
LOQ Check Standard (2416606-MRL1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS1) Total Kjeldal Nitrogen Matrix Spike (2416606-MS2)	2.61 2.66 2.66	0.200 Source 0.200 Source 0.200 Source 0.200 Source 0.200	mg/L ce: 2424010-01 mg/L ce: 2424012-02 mg/L ce: 2424010-01 mg/L ce: 2424012-02	0.200 2.00 2.00 2.00	0.100 Prepared a 0.100	& Analyzed: 2 & Analyzed: 2 0.649 & Analyzed: 2 0.614 & Analyzed: 2 0.649 & Analyzed: 2	98.0 2024-06-1- 89.5 2024-06-1- 102 2024-06-1- 100 2024-06-1- 104	90-110 4 70-130 4 90-110 4 90-110 4 90-110 4	1.79	10	

Sabine Creek WWTP Project: Permit Renewal 1513 Crenshaw Rd Project Number: SBX

Royse City, TEXAS 75189

Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Conventional Chemistry Parameters by Standard Methods - Quality Control North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2416323 - [Solids Preparation]											
Blank (2416323-BLK1)					Prepared	& Analyzed:	2024-06-12				
Total Suspended Solids	ND	0.50	mg/L		0.50						
Blank (2416323-BLK2)					Prepared	& Analyzed:	2024-06-12				
Total Suspended Solids	ND	0.50	mg/L		0.50						
Blank (2416323-BLK3)					Prepared	& Analyzed:	2024-06-12				
Total Suspended Solids	ND	0.50	mg/L		0.50						
Blank (2416323-BLK4)					Prepared	& Analyzed:	2024-06-12				
Total Suspended Solids	ND	0.50	mg/L		0.50						
Blank (2416323-BLK5)					Prepared	& Analyzed:	2024-06-12	:			
Total Suspended Solids	ND	0.50	mg/L		0.50						
LCS (2416323-BS1)					Prepared	& Analyzed:	2024-06-12				
Total Suspended Solids	41.0	5.00	mg/L	40.0	5.00	a Anaiyzed.	102	80-120			
			e: 2424071-03			Pr A nolyma 1.					
Duplicate (2416323-DUP1) Total Suspended Solids	10600	100	e: 24240/1-03 mg/L		100	& Analyzed: 10600	<u> 2024-00-12</u>		0.377	10	
•		C	_				2024.06.12				
Duplicate (2416323-DUP2) Total Suspended Solids	11200	100	e: 2424071-05 mg/L		100	& Analyzed: 11200	2024-06-12		0.179	10	
•	11200		_						0.177	10	
Duplicate (2416323-DUP3) Total Suspended Solids	3020	Sourc 100	e: 2424101-06			& Analyzed: 2980	2024-06-12		1.33	10	
Total Suspended Solids	3020	100	mg/L		100	2980			1.33	10	
Duplicate (2416323-DUP4)			e: 2424134-09			& Analyzed:	2024-06-12				
Total Suspended Solids	14300	100	mg/L		100	14800			3.57	10	
Duplicate (2416323-DUP5)		Sourc	e: 2424171-04		Prepared	& Analyzed:	2024-06-12	,			
Total Suspended Solids	4080	100	mg/L		100	4040			0.985	10	
Batch 2416405 - [GenChem Demand]											
Blank (2416405-BLK1)					Prepared:	2024-06-12	Analvzed: 2	024-06-17			
Carbonaceous Biochemical	ND	2.0	mg/L		0.1		J===1 =				
Oxygen Demand											
LCS (2416405-BS1)					Prepared:	2024-06-12	*				
Carbonaceous Biochemical Oxygen Demand	196	100	mg/L	198	5.0		99.0	84-115			
Duplicate (2416405-DUP1)		Source	e: 2424136-02		Prepared	2024-06-12	Analyzed: ?	024-06-17			
Carbonaceous Biochemical	0.58	2.2	mg/L		0.1	0.65	. 111u1 y 2.Cu. 2	02-1-00-17	12.6	15	
Oxygen Demand			S		***						
Batch 2416424 - [Solids Preparation]											
Blank (2416424-BLK1)					Prepared:	2024-06-12	Analyzed: 2	024-06-18			
Total Dissolved Solids	ND	10.0	mg/L		5.00						

Sabine Creek WWTP 1513 Crenshaw Rd Royse City, TEXAS 75189

Project: Permit Renewal

Project Number: SBX

Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Conventional Chemistry Parameters by Standard Methods - Quality Control North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2416424 - [Solids Preparation]											
Blank (2416424-BLK2)					Prepared:	2024-06-12	Analyzed:	2024-06-18			
Total Dissolved Solids	ND	10.0	mg/L		5.00						
Blank (2416424-BLK3)					Prepared:	2024-06-12	Analyzed:	2024-06-18			
Total Dissolved Solids	ND	10.0	mg/L		5.00						
Blank (2416424-BLK4)					Prepared:	2024-06-12	Analyzed:	2024-06-18			
Total Dissolved Solids	ND	10.0	mg/L		5.00						
Blank (2416424-BLK5)					Prepared:	2024-06-12	Analyzed:	2024-06-18			
Total Dissolved Solids	ND	10.0	mg/L		5.00	2024 00 12	mary zea.	2024 00 10			
L CC (2417424 BC1)					D	2024.06.12	A 1 1.	2024 07 19			
LCS (2416424-BS1) Total Dissolved Solids	237	10.0	mg/L	240	5.00	2024-06-12	Analyzed: 98.8	80-120			
	/		J	240		2024.65.15					
Duplicate (2416424-DUP1) Total Dissolved Solids	679	Source 10.0	e: 2421003-01 mg/L		•	2024-06-12 . 658	Analyzed:	2024-06-18	3.14	10	
	0/9		_		5.00				3.14	10	
Duplicate (2416424-DUP2)			e: 2424021-02			2024-06-12	Analyzed:	2024-06-18			
Total Dissolved Solids	237	10.0	mg/L		5.00	237			0.00	10	
Duplicate (2416424-DUP3)		Sourc	e: 2424071-02		Prepared:	2024-06-12	Analyzed:	2024-06-18			
Total Dissolved Solids	665	10.0	mg/L		5.00	665			0.00	10	
Duplicate (2416424-DUP4)		Source	e: 2424101-02		Prepared:	2024-06-12	Analyzed:	2024-06-18			
Total Dissolved Solids	547	10.0	mg/L		5.00	556			1.63	10	
Duplicate (2416424-DUP5)		Source	e: 2424177-02		Prepared:	2024-06-12	Analyzed:	2024-06-18			
Total Dissolved Solids	318	10.0	mg/L		5.00	334			4.91	10	
LOQ Check Standard (2416424-MRL1)					Prepared:	2024-06-12	Analyzed:	2024-06-18			
Total Dissolved Solids	7.00	10.0	mg/L	9.60	5.00	2021 00 12	72.9	70-130			
Batch 2416438 - [Water Quality Prepa	rationl Wa	ter Ouali	tv Prenaratio	n							
Blank (2416438-BLK1)					Prepared &	& Analyzed:	2024-06-1	3			
Total Alkalinity	ND	20.0	mg/L		10.0						
LCS (2416438-BS1)					Prepared &	& Analyzed:	2024-06-1	3			
Total Alkalinity	50.3	20.0	mg/L	50.0	10.0	<u> </u>	101	90-110			
LCS Dup (2416438-BSD1)					Prepared A	& Analyzed:	2024-06-1	3			
Total Alkalinity	50.4	20.0	mg/L	50.0	10.0	, 2.24.	101	90-110	0.318	10	
Duplicate (2416438-DUP1)		Source	e: 2421003-01		Prepared	& Analyzed:	2024 06 1	3			
Total Alkalinity	140	20.0	mg/L		10.0	140	202 1- 00-1	<i></i>	0.222	10	
•			_				2024.25	2		-	
Duplicate (2416438-DUP2)		Source 20.0	e: 2424139-02		Prepared &	& Analyzed:	2024-06-1	3	0.584		

Sabine Creek WWTP Project: Permit Renewal 1513 Crenshaw Rd Project Number: SBX

Royse City, TEXAS 75189

Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES **Coliform by Quantitray - Quality Control** North Texas Municipal Water District

				Spike		Source		%REC		RPD	
Analyte	Result	AQL	Units	Level	MDL	Result	%REC	Limits	RPD	Limit	Notes
Batch 2416417 - [IDEXX Colilert Qua	ntitray] ID	EXX Co	lilert Quantitı	ay							
Blank (2416417-BLK1)					Prepared:	2024-06-12	Analyzed:	2024-06-13			
Escherichia Coliform	ND	1.0	MPN/100mL		1.0						
Duplicate (2416417-DUP1)		Sour	ce: 2421003-03		Prepared:	2024-06-12	Analyzed:	2024-06-13			
Escherichia Coliform	ND	1.0	MPN/100mL		1.0	ND	•			200	
	A	nions	by EPA 300	Serie	s - Qual	ity Contr	ol				
			h Texas Mu								
				Spike		Source		%REC		RPD	
Analyte	Result	AQL	Units	Level	MDL	Result	%REC	Limits	RPD	Limit	Notes
Batch 2416410 - [300.0 Anions] 300.0 A	Anions										
Blank (2416410-BLK1)					Prepared	& Analyzed:	2024-06-1	2			
Nitrate as N	ND	0.020	mg/L		0.010	<u> </u>					
LCS (2416410-BS1)					Prepared	& Analyzed:	2024-06-1	2			
Nitrate as N	1.00	0.020	mg/L	1.00	0.010		100	90-110			
			-			0- Amol 1	2024 06 1				
LCS Dup (2416410-BSD1) Nitrate as N	1.00	0.020	mg/L	1.00	0.010	& Analyzed:	100	90-110	0.00	10	
	1.00		_	1.00					0.00	10	
Matrix Spike (2416410-MS1)	0.000		ce: 2424074-01		•	& Analyzed:					
Nitrate as N	0.989	0.020	mg/L	1.00	0.010	0.015	97.4	80-120			
Matrix Spike (2416410-MS2)			ce: 2424085-02		Prepared	& Analyzed:					
Nitrate as N	1.42	0.020	mg/L	1.00	0.010	0.347	107	80-120			
Matrix Spike Dup (2416410-MSD1)		Sour	ce: 2424074-01		Prepared	& Analyzed:	2024-06-1	2			
Nitrate as N	0.996	0.020	mg/L	1.00	0.010	0.015	98.1	80-120	0.705	10	
Matrix Spike Dup (2416410-MSD2)		Sour	ce: 2424085-02		Prepared	& Analyzed:	2024-06-1	2			
Nitrate as N	1.41	0.020	mg/L	1.00	0.010	0.347	106	80-120	0.353	10	
Batch 2416514 - [300.0 Anions] 300.0 A	Anions										
Blank (2416514-BLK1)					Prepared	& Analyzed:	2024-06-1	3			
Fluoride	ND	0.020	mg/L		0.010	, 224.	, 00 1.				
I CS (2416514 BS1)						& Analyzod.	2024 06 1	2			
LCS (2416514-BS1) Fluoride	1.06	0.020	mg/L	1.00	0.010	& Analyzed:	106	90-110			
	1.00			1.00							
LCS Dup (2416514-BSD1)	1.0=	0.020	· · · · · · · · · · · · · · · · · · ·		•	& Analyzed:			0.045	10	
Fluoride	1.07	0.020	mg/L	1.00	0.010		107	90-110	0.845	10	
Matrix Spike (2416514-MS1)		Sour	ce: 2424211-06		Prepared	& Analyzed:	2024-06-1				
Fluoride	1.44	0.020	mg/L	1.00	0.010	0.322	112	80-120			

Royse City, TEXAS 75189

Project Manager: Kristen Suprobo

Reported: 2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

Anions by EPA 300 Series - Quality Control North Texas Municipal Water District

Analogica Result					C.: !1-		Source		%REC		RPD	
Matrix Spike Cylifc514-MSD1 Source: 2424142-466 Prepared & Analyzed: 2024-06-13 Source: 2424114-66 No. 10.0 0.00 0.026 0.022 112 80-120 0.0693 10 No. 10.00 No. 10.00 0.026 111 80-120 No. 10.00 No. 10.00 0.023 112 80-120 0.0693 10 No. 10.00 No. 10.00 0.020 10.00 0.023 112 80-120 0.0693 10 No. 10.00 No. 10.00 0.020 10 No. 10.00 No. 10.00 0.020 111 80-120 0.0693 10 No. 10.00 No. 10.00 0.020 111 80-120 0.0693 10 No. 10.00 No. 10.00 No. 10.00 0.026 111 80-120 0.0291 10 No. 10.00 No. 1	Analyte	Result	AQL	Units	Spike Level	MDL		%REC		RPD		Notes
Survey 142-06 Figure 138 100 mg/L 100 101 0.263 111 80-120 100 1	-											
Flueride 1.88 0.020 mg/L 1.00 0.010 0.263 111 80-120 Matrix Spike Dup (2416514-MSD1) Source: 2424114-246 Prepared & Analyzed: 2024-06-13 Flueride 1.34 0.020 mg/L 1.00 0.010 0.322 112 80-120 0.0693 10 Matrix Spike Dup (2416514-MSD2) Source: 2434142-96 Prepared & Analyzed: 2024-06-13 Flueride 1.37 0.020 mg/L 1.00 0.010 0.263 111 80-120 0.291 10 Batch 2417039 - [300.0 Anions] 300.0 Anions Batch 2417039 - [300.0 Anions	Batch 2416514 - [300.0 Anions] 300.0 Ar	nions										
Matrix Spike Dup (2416514-MSD1) Source: 242411-06 Prepared & Analyzed: 2024-06-13 Prepared & Analyze	Matrix Spike (2416514-MS2)		Sourc	ee: 2424142-06		Prepared	& Analyzed:	2024-06-13	3			
Fluoride	Fluoride	1.38	0.020	mg/L	1.00	0.010	0.263	111	80-120			
Fluoride	Matrix Spike Dup (2416514-MSD1)		Sourc	e: 2424211-06		Prepared	& Analyzed:	2024-06-13	3			
Prioride	Fluoride	1.44			1.00	•				0.0693	10	
Prioride	M. Anim C., il., Day (2416514 MCD2)		C	2424142.06		D 1	0 A 1 1.	2024 06 12	,			
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Sabine Creek WWTP Project: Permit Renewal

1513 Crenshaw Rd Project Number: SBX

Royse City, TEXAS 75189 Project Manager: Kristen Suprobo

Reported:

2024-07-30 15:41

ANALYTICAL REPORT FOR SAMPLES

General Notes and Definitions

DET Analyte DETECTED

dry Sample results reported on a dry weight basis

MDL Method Detection Limit
MRL Method Reporting Limit

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

SRL Sample Reporting Limit

Note: "Conductance at 25°C" is also known as Specific Conductance

Report Notes and Definitions

*- LCS and/or LCSD is outside acceptance limits, low biased.

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*1 LCS/LCSD RPD exceeds control limits.

AccFD Field Data, not performed by laboratory, presented per client request.

CCB is >1/2 IMRL and <IMRL
CCVA CCV acceptable at this range.

Estimated value. The analyte was positively identified but the quantitation is estimation. This estimated report value is between

the MDL and MRL (PQL).

Ja Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

p The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

S1- Surrogate recovery exceeds control limits, low biased.
 S1+ Surrogate recovery exceeds control limits, high biased.

SUB QA/QC for subcontracted analysis appears on hardcopy of subcontract laboratory report.

Page 1 of 2 Effluent Residual Chlorine mg/L	To The state of th	Cooler Info	iquished by: Date Time Received by: Remarks: IN-HOUSE PARAMETERS
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Eurofins Eaton Analytical South Bend

Southbend, IN 46617 110 S. Hill Street

Chain of Custody Record

💸 eurofins | Environment Testing

M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S203
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
U - Acetone
W - PH 4-5
W - Intzma Special Instructions/Note: Z - other (specify) Company Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client A Disposal By Lab Monti reservation Codes C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid Page: Page 1 of 1 J - DI Water K - EDTA L - EDA COC No: 3ob #: Total Number of containers ڼږ Date/Time: Date/Time: S Date/Time Oil and Grease Method of Shipment: Carrier Tracking No(s): 10C by EPA 624.1 S State of Origin: **Analysis Requested** ω Cooler Temperature(s) °C and Other Remarks: Cr, Cr (۱۱۱), Cr (۷۱) Special Instructions/QC Requirements Dioxins by 625.1 Sest by EPA 632 Pest by EPA 1657 сга АЧЭ уа азын Received by: Received by: Received by: Pest/PCB by EPA 608.3 Lab PM: Sylvia Garza E-Mail: Time: Field Filtered Sample (Yes or No) z z Sample Matrix
Type (wewater, Sapolid, C=comp, O=westeloil, G=grab) BT=Tissue, A=Ar) Preservation Code: Company NTMWD ≷ ≥ Company Company Radiological ပ O Compliance Project: A Yes A No 6/11-12/24 8:50-856 Sampler. Eric Demand Sample 8:55 Date: Unknown Due Date Requested: Phone: 469-626-4610 6/11/24 Sample Date Date/Time: Date/Time: Project #: SSOW#: **₩**0*W* Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seals Intact: Custody Seal No.: Phone: 574-233-4777 Fax: 574-233-8207 Company: North Texas Municipal Water District Possible Hazard Identification Empty Kit Relinquished by: 2421003-01 Effluent TC 2421003- 03 Effluent G Client Information Sample Identification kharden@ntmwd.com Project Name: SBX Permit Renewal Δ Yes Δ No X Non-Hazard 201 East Brown Phone: 469-626-4610 State, Zip: Texas 75098 Client Contact: Kelly Harden elinquished by: Relinquished by: elinquished by:

Ver: 01/16/2019

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PREPARED FOR

Attn: Kelly Harden North Texas Municipal Water District PO BOX 2408 Wylie, Texas 75098

ANALYTICAL REPORT

Generated 7/25/2024 12:18:57 PM

JOB DESCRIPTION

SBX Permit Renewal 2421003

JOB NUMBER

870-27737-1

Eurofins Dallas 9701 Harry Hines Blvd Dallas TX 75220

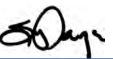
Eurofins Dallas

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 7/25/2024 12:18:57 PM

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Client: North Texas Municipal Water District Project/Site: SBX Permit Renewal Laboratory Job ID: 870-27737-1 SDG: 2421003

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Definitions/Glossary

Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal

SDG: 2421003

Qualifiers
GC/MS VOA

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier Description

*- LCS and/or LCSD is outside acceptance limits, low biased.
 *+ LCS and/or LCSD is outside acceptance limits, high biased.

*1 LCS/LCSD RPD exceeds control limits.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1- Surrogate recovery exceeds control limits, low biased.
 U Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*1 LCS/LCSD RPD exceeds control limits.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

p

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Metals

Qualifier Description

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier Qualifier Description

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted 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)

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Definitions/Glossary

Client: North Texas Municipal Water District Job ID: 870-27737-1 Project/Site: SBX Permit Renewal

SDG: 2421003

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Glossary (Continued)

Too Numerous To Count

TNTC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

7/25/2024

Case Narrative

Client: North Texas Municipal Water District

Project: SBX Permit Renewal

Eurofins Dallas Job ID: 870-27737-1

Job Narrative 870-27737-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 samples were received on 6/12/2024 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.1°C and 1.3°C.

Subcontract Work

Method General Subcontract Method: This method was subcontracted to Ana-Lab Corporation. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA

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

GC/MS Semi VOA

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 2421003-01 (Effluent TC) (870-27737-1). These results have been reported and qualified.

Method 625.1: The laboratory control sample (LCS) for preparation batch 860-165885 and analytical batch 860-165945 recovered outside control limits for the following analytes: 2,4,5-Trichlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 625.1: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-165885 and analytical batch 860-165945 recovered outside control limits for the following analyte(s): . Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-165885 and analytical batch 860-165945 recovered outside control limits for the following analytes: Pyridine.

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

GC Semi VOA

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

Method 608.3 PCB: The surrogate recovery for the laboratory control sample duplicate (LCSD) associated with preparation batch 860-166167 and analytical batch 860-166350 was outside the upper control limits.

(LCSD 860-166167/5-A)

Method 608.3 PCB: The laboratory control sample duplicate (LCSD) for preparation batch 860-166167 and analytical batch 860-166350 recovered outside control limits for the following analytes: PCB-1016. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

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7/25/2024

Job ID: 870-27737-1

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Case Narrative

Client: North Texas Municipal Water District

Project: SBX Permit Renewal

Eurofins Dallas

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Job ID: 870-27737-1

Job ID: 870-27737-1 (Continued)

Pesticides

Method 608.3_Pest: The surrogate recovery for the laboratory control sample duplicate (LCSD) associated with preparation batch 860-166167 and analytical batch 860-166572 was outside the upper control limits. (LCSD 860-166167/3-A)

Method 608.3_Pest: The laboratory control sample duplicate (LCSD) for preparation batch 860-166167 and analytical batch 860-166572 recovered outside control limits for the following analytes: Methoxychlor. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

HPLC/IC

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

Metals

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

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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Detection Summary

RL

0.00900

MDL Unit

0.00514 ug/L

Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal

Analyte

Diuron

Job ID: 870-27737-1 SDG: 2421003

Total/NA

ient Sample ID: 2421003-01 (Effluent TC)
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0.0546

Result Qualifier

Lab Sa	ample ID:	870-27737-1
Dil Fac	Method	Pren Tyne

632

Client Sample ID: 2421003-03 (Effluent G)

Lab	Sample	ID:	870-27737-2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Toluene	0.00434	0.00500	0.00161	mg/L		624.1	Total/NA
Cr	0.000401	0.00300	0.000325	mg/L	1	200.8	Total
LIFAA	4.55		4.07	/1	4	4004D	Recoverable
HEM	1.55	5.55	1.27	mg/L	1	1664B	Total/NA
Cyanide, Total	3.19	5.00	2.00	ug/L	1	335.4	Total/NA
Cyanide, Non-amenable	4.71	5.00	2.33	ug/L	1	4500 CN G	Total/NA
						NonAm	
Cr (VI)	8.41	10.0	2.80	ug/L	1	7196A	Total/NA

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4

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11

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Client: North Texas Municipal Water District
Project/Site: SBX Permit Renewal

SDG: 2421003

Client Sample ID: 2421003-01 (Effluent TC)

Date Collected: 06/12/24 08:55
Date Received: 06/12/24 16:15

Lab Sample ID: 870-27737-1 Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,2,4,5-Tetrachlorobenzene	<1.32	U	10.0	1.32	ug/L		06/14/24 05:30	06/14/24 19:07	
Acenaphthene	<1.39	U	5.70	1.39	ug/L		06/14/24 05:30	06/14/24 19:07	
Acenaphthylene	<1.41	U	10.0	1.41	ug/L		06/14/24 05:30	06/14/24 19:07	
Anthracene	<1.50	U	5.70	1.50	ug/L		06/14/24 05:30	06/14/24 19:07	
Benzidine	<4.80	U *- *1	20.0	4.80	ug/L		06/14/24 05:30	06/14/24 19:07	
Benzo[a]anthracene	<0.173	U	5.00	0.173	ug/L		06/14/24 05:30	06/14/24 19:07	
Benzo[a]pyrene	<0.364	U	5.00	0.364	ug/L		06/14/24 05:30	06/14/24 19:07	
Benzo[b]fluoranthene	<2.04	U	10.0		ug/L		06/14/24 05:30	06/14/24 19:07	
Benzo[g,h,i]perylene	<2.68	U	10.0	2.68	ug/L		06/14/24 05:30	06/14/24 19:07	
Benzo[k]fluoranthene	<0.375	U	5.00	0.375			06/14/24 05:30	06/14/24 19:07	
Butyl benzyl phthalate	< 0.337	U	5.00	0.337	•		06/14/24 05:30	06/14/24 19:07	
Bis(2-chloroethyl)ether	<2.16		10.0		ug/L			06/14/24 19:07	
2,4,5-Trichlorophenol	<2.00		10.0		ug/L			06/14/24 19:07	,
Bis(2-chloroethoxy)methane	<1.76		10.0		ug/L			06/14/24 19:07	
Bis(2-ethylhexyl) phthalate	<0.277		5.00	0.277	-			06/14/24 19:07	,
4-Chlorophenyl phenyl ether	<1.28		10.0		ug/L			06/14/24 19:07	,
4-Bromophenyl phenyl ether	<0.256		5.00	0.256	-			06/14/24 19:07	
2-Chloronaphthalene	<0.462		5.00	0.462	-			06/14/24 19:07	
Chrysene	<0.222		5.00	0.222				06/14/24 19:07	
Dibenz(a,h)anthracene	<0.246		5.00	0.246	-			06/14/24 19:07	
Diethyl phthalate	<1.59		5.00		ug/L			06/14/24 19:07	,
Dimethyl phthalate	<0.299		2.50	0.299				06/14/24 19:07	
Di-n-butyl phthalate	<0.252		5.00	0.252	_			06/14/24 19:07	,
2-Methylphenol	< 0.00162		0.0100	0.00162	•			06/14/24 19:07	,
3 & 4 Methylphenol	<0.00102		0.0100	0.00162	•			06/14/24 19:07	,
3,3'-Dichlorobenzidine	<0.341		5.00	0.341	-			06/14/24 19:07	,
2,4-Dinitrotoluene	<1.31		10.0	1.31	ug/L ug/L			06/14/24 19:07	,
2,6-Dinitrotoluene	<1.61		5.00	1.61				06/14/24 19:07	,
Azobenzene	<1.50		10.0		ug/L ug/L			06/14/24 19:07	
Fluoranthene	<1.59		5.00		_			06/14/24 19:07	
Fluorene					ug/L				
riuorene Hexachlorobenzene	<1.63		5.00		ug/L			06/14/24 19:07	,
	<0.307		5.00	0.307	-			06/14/24 19:07	,
Hexachlorobutadiene	<0.238		1.00	0.238				06/14/24 19:07	
Hexachlorocyclopentadiene	<4.58		10.0		ug/L			06/14/24 19:07	•
Hexachloroethane	<0.526		4.80	0.526	_			06/14/24 19:07	
ndeno[1,2,3-cd]pyrene	<2.29		5.00		ug/L			06/14/24 19:07	
sophorone	<1.64		5.00		ug/L			06/14/24 19:07	
Naphthalene	<0.542		2.50	0.542	-			06/14/24 19:07	ĺ
Nitrobenzene	<1.66		5.00		ug/L			06/14/24 19:07	
N-Nitrosodimethylamine	<2.02		10.0		ug/L			06/14/24 19:07	Ź
Phenanthrene -	<1.42		10.0		ug/L			06/14/24 19:07	ŕ
Pyrene	<0.178		5.00	0.178				06/14/24 19:07	
1,2,4-Trichlorobenzene	<0.00161		0.00500	0.00161	_			06/14/24 19:07	,
2-Chlorophenol	<0.649		5.00	0.649	-			06/14/24 19:07	•
4-Chloro-3-methylphenol	<1.57		5.00		ug/L			06/14/24 19:07	
2,4-Dichlorophenol	<0.314		5.00	0.314	-			06/14/24 19:07	•
2,4-Dimethylphenol	<0.649		5.00	0.649	_			06/14/24 19:07	,
2,4-Dinitrophenol	<1.61	U	10.0	1.61	ug/L		06/14/24 05:30	06/14/24 19:07	

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Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal SDG: 2421003 Lab Sample ID: 870-27737-1

Client Sample ID: 2421003-01 (Effluent TC)

Date Collected: 06/12/24 08:55 Date Received: 06/12/24 16:15

Method: EPA 625.1 - Semivol	atile Organic	: Compou	ınds (GC/MS) (Conti	nued)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<4.91	U	7.20	4.91	ug/L		06/14/24 05:30	06/14/24 19:07	1
Pentachlorophenol	<0.000234	U	0.0100	0.000234	mg/L		06/14/24 05:30	06/14/24 19:07	1
Phenol	<0.423	U	4.50	0.423	ug/L		06/14/24 05:30	06/14/24 19:07	1
2,4,6-Trichlorophenol	<1.42	U	5.00	1.42	ug/L		06/14/24 05:30	06/14/24 19:07	1
Di-n-octyl phthalate	< 0.373	U	5.00	0.373	ug/L		06/14/24 05:30	06/14/24 19:07	1
N-Nitrosodi-n-propylamine	<2.88	U	10.0	2.88	ug/L		06/14/24 05:30	06/14/24 19:07	1
N-Nitrosodiphenylamine	<1.81	U	10.0	1.81	ug/L		06/14/24 05:30	06/14/24 19:07	1
2,2'-oxybis[1-chloropropane]	<1.79	U	10.0	1.79	ug/L		06/14/24 05:30	06/14/24 19:07	1
4,6-Dinitro-2-methylphenol	<1.44	U	10.0	1.44	ug/L		06/14/24 05:30	06/14/24 19:07	1
1,2-Diphenylhydrazine	<1.49	U	10.0	1.49	ug/L		06/14/24 05:30	06/14/24 19:07	1
N-Nitrosodi-n-butylamine	<1.49	U	10.0	1.49	ug/L		06/14/24 05:30	06/14/24 19:07	1
N-Nitrosodiethylamine	<1.75	U	10.0	1.75	ug/L		06/14/24 05:30	06/14/24 19:07	1
4-Nonylphenol	<10.0	U	10.0	10.0	ug/L		06/14/24 05:30	06/14/24 19:07	1
Pentachlorobenzene	<1.07	U	10.0	1.07	ug/L		06/14/24 05:30	06/14/24 19:07	1
Pyridine	<2.64	U *1	10.0	2.64	ug/L		06/14/24 05:30	06/14/24 19:07	1
Total Cresols	<2.62	U	10.0	2.62	ug/L		06/14/24 05:30	06/14/24 19:07	1
Tentatively Identified Compound	Est. Result	Qualifier	Unit [)	RT	CAS No.	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD TIC	<10.0	U	ug/L			1746-01-6	06/14/24 05:30	06/14/24 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		31 - 132				06/14/24 05:30	06/14/24 19:07	1
2-Fluorobiphenyl (Surr)	65		29 - 112				06/14/24 05:30	06/14/24 19:07	1
2-Fluorophenol (Surr)	24	S1-	28 - 11 <i>4</i>				06/14/24 05:30	06/14/24 19:07	1
Nitrobenzene-d5 (Surr)	62		15 - 314				06/14/24 05:30	06/14/24 19:07	1
p-Terphenyl-d14 (Surr)	91		20 - 141				06/14/24 05:30	06/14/24 19:07	1
Phenol-d5 (Surr)	15		8 - 424				06/14/24 05:30	06/14/24 19:07	1

. •		• - .						•
anochlorine Pes	ticides in \	Nater						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00113	U	0.0100	0.00113	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.00142	U	0.00900	0.00142	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.00389	U	0.0180	0.00389	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.00245	U	0.250	0.00245	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.00299	U	0.0100	0.00299	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.000814	U	0.0100	0.000814	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.00109	U	0.0100	0.00109	ug/L		06/15/24 07:58	06/18/24 13:58	1
< 0.00379	U	0.0200	0.00379	ug/L		06/15/24 07:58	06/18/24 13:58	1
< 0.000953	U	0.0100	0.000953	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.00107	U	0.0100	0.00107	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.00122	U	0.0100	0.00122	ug/L		06/15/24 07:58	06/18/24 13:58	1
< 0.00112	U	0.0100	0.00112	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.00156	U	0.0100	0.00156	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.00118	U	0.0100	0.00118	ug/L		06/15/24 07:58	06/18/24 13:58	1
< 0.0000500	U	0.000100	0.0000500	mg/L		06/15/24 07:58	06/18/24 13:58	1
<0.00446	U	0.00900	0.00446	ug/L		06/15/24 07:58	06/18/24 13:58	1
< 0.00134	U	0.0100	0.00134	ug/L		06/15/24 07:58	06/18/24 13:58	1
< 0.0769	U	0.100	0.0769	ug/L		06/15/24 07:58	06/18/24 13:58	1
<0.103	U	0.0400	0.103	ug/L		06/15/24 07:58	06/18/24 13:58	1
	Result	Result Qualifier	<0.00113	Result Qualifier RL MDL <0.00113	Result Qualifier RL MDL Unit <0.00113	Result Qualifier RL MDL Unit D <0.00113	Result Qualifier RL MDL Unit D Prepared <0.00113	Result Qualifier RL MDL Unit D Prepared Analyzed

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Job ID: 870-27737-1

Matrix: Water

Client: North Texas Municipal Water District
Project/Site: SBX Permit Renewal

SDG: 2421003

Client Sample ID: 2421003-01 (Effluent TC)

Lab Sample ID: 870-27737-1

Date Collected: 06/12/24 08:55

Date Received: 06/12/24 16:15

Method: EPA 608.3 - Organo	ochlorine Pes	ticides in	Water (Co	ntinued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.00000390	U *+	0.0000200	0.0000039	mg/L		06/15/24 07:58	06/18/24 13:58	1
Mirex	<0.0000200	U	0.0000200	0.0000200	mg/L		06/15/24 07:58	06/18/24 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	122		15 - 136				06/15/24 07:58	06/18/24 13:58	1
Tetrachloro-m-xylene	103		18 - 126				06/15/24 07:58	06/18/24 13:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0125	U *+	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 13:50	1
PCB-1242	<0.0125	U	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 13:50	1
PCB-1254	<0.00780	U	0.100	0.00780	ug/L		06/15/24 07:58	06/17/24 13:50	1
PCB-1221	<0.0125	U	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 13:50	1
PCB-1232	<0.0125	U	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 13:50	1
PCB-1248	< 0.0125	U	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 13:50	1
PCB-1260	<0.00780	U	0.100	0.00780	ug/L		06/15/24 07:58	06/17/24 13:50	1
Polychlorinated biphenyls, Total	<0.100	U	0.100	0.100	ug/L		06/15/24 07:58	06/17/24 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		18 - 126				06/15/24 07:58	06/17/24 13:50	1
DCB Decachlorobiphenyl (Surr)	115	p	15 - 136				06/15/24 07:58	06/17/24 13:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000539	U	0.000200	0.0000539	mg/L		06/18/24 13:50	06/21/24 00:25	1
Hexachlorophene	<0.000808	U *1	0.00500	0.000808	mg/L		06/18/24 13:50	06/21/24 00:25	1
Silvex (2,4,5-TP)	<0.0000422	U	0.000200	0.0000422	mg/L		06/18/24 13:50	06/21/24 00:25	1
Dalapon	<0.0000476	U	0.000200	0.0000476	mg/L		06/18/24 13:50	06/21/24 00:25	1
Dicamba	<0.0000423	U	0.000200	0.0000423	mg/L		06/18/24 13:50	06/21/24 00:25	1
Dinoseb	<0.0000343	U	0.000200	0.0000343	mg/L		06/18/24 13:50	06/21/24 00:25	1
Pentachlorophenol	<0.0000443	U	0.000200	0.0000443	mg/L		06/18/24 13:50	06/21/24 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	62		45 - 150				06/18/24 13:50	06/21/24 00:25	1

Method: EPA-01 632 - Carbamate and Urea Pesticides (HPLC)										
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Carbaryl	<0.185 L	J	0.500	0.185	ug/L		06/17/24 14:00	06/20/24 05:17	1	
Diuron	0.0546		0.00900	0.00514	ug/L		06/17/24 14:00	06/20/24 05:17	1	

Client Sample ID: 2421003-03 (Effluent G)

Date Collected: 06/12/24 08:55

Lab Sample ID: 870-27737-2

Matrix: Water

Date Received: 06/12/24 16:15

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
1,1,1-Trichloroethane	<0.00145	U	0.00500	0.00145	mg/L			06/12/24 19:53	1			
1,1,2,2-Tetrachloroethane	< 0.00171	U	0.00500	0.00171	mg/L			06/12/24 19:53	1			
1,1,2-Trichloroethane	< 0.000747	U	0.00200	0.000747	mg/L			06/12/24 19:53	1			
1,1-Dichloroethane	<0.00103	U	0.00500	0.00103	mg/L			06/12/24 19:53	1			
1,1-Dichloroethene	< 0.000575	U	0.00200	0.000575	mg/L			06/12/24 19:53	1			

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15

Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal

SDG: 2421003

Client Sample ID: 2421003-03 (Effluent G)

Date Collected: 06/12/24 08:55 Date Received: 06/12/24 16:15

Toluene-d8 (Surr)

Lab Sample ID: 870-27737-2

Matrix: Water

Job ID: 870-27737-1

Analyte		Qualifier	RL	MDL		<u>D</u> .	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.000593	U	0.00200	0.000593				06/12/24 19:53	1
1,2-Dibromoethane	<0.000631	U	0.00200	0.000631	mg/L			06/12/24 19:53	1
1,2-Dichlorobenzene	<0.000603	U	0.00200	0.000603	mg/L			06/12/24 19:53	1
1,2-Dichloroethane	<0.00153	U	0.00500	0.00153	mg/L			06/12/24 19:53	1
1,2-Dichloropropane	<0.00155	U	0.00500	0.00155	mg/L			06/12/24 19:53	1
1,3-Dichlorobenzene	<0.00108	U	0.00500	0.00108	mg/L			06/12/24 19:53	1
1,4-Dichlorobenzene	< 0.000637	U	0.00200	0.000637	mg/L			06/12/24 19:53	1
2-Butanone	<0.00453	U	0.0200	0.00453	mg/L			06/12/24 19:53	1
2-Chloroethyl vinyl ether	< 0.00120	U	0.00500	0.00120	mg/L			06/12/24 19:53	1
Acetone	< 0.0213	U	0.0500	0.0213	mg/L			06/12/24 19:53	1
Acrolein	<0.0231	U	0.0500	0.0231	mg/L			06/12/24 19:53	1
Acrylonitrile	< 0.00780	U	0.0500	0.00780	-			06/12/24 19:53	1
Benzene	< 0.000496	U	0.00200	0.000496	-			06/12/24 19:53	1
Bromodichloromethane	<0.000696	U	0.00200	0.000696	ma/L			06/12/24 19:53	1
Bromoform	< 0.00133		0.00500	0.00133	J			06/12/24 19:53	1
Bromomethane	<0.00188		0.00500	0.00188	•			06/12/24 19:53	1
Carbon tetrachloride	<0.00126		0.00200	0.00126				06/12/24 19:53	
Chlorobenzene	< 0.000945		0.00500	0.000945	•			06/12/24 19:53	1
Chloroethane	< 0.00145		0.00500	0.00145	-			06/12/24 19:53	
Chloroform	<0.00140		0.00500	0.00140				06/12/24 19:53	
Chloromethane	< 0.000941		0.00500	0.000941	-			06/12/24 19:53	1
Dibromochloromethane	<0.00175		0.00500	0.000941	-			06/12/24 19:53	1
Ethylbenzene	<0.000173		0.00500	0.000173				06/12/24 19:53	'
MTBE	<0.00268		0.00300	0.000878	-			06/12/24 19:53	1
Methylene Chloride	<0.00268		0.0100	0.00208	-			06/12/24 19:53	1
Naphthalene	<0.000927		0.00500	0.000927	J			06/12/24 19:53	1
Tetrachloroethene	<0.000900		0.00500	0.000900	J			06/12/24 19:53	1
Toluene	0.00434		0.00500	0.00161				06/12/24 19:53	ا ۔
Xylenes, Total	<0.00113		0.00500	0.00113	J			06/12/24 19:53	1
Trichloroethene	<0.00169		0.00500	0.00169	•			06/12/24 19:53	1
Trichlorofluoromethane	<0.00124		0.00500	0.00124				06/12/24 19:53	1
Vinyl chloride	<0.000592		0.00200	0.000592	-			06/12/24 19:53	1
cis-1,2-Dichloroethene	<0.000796		0.00500	0.000796	J			06/12/24 19:53	1
cis-1,3-Dichloropropene	<0.000885		0.00500	0.000885				06/12/24 19:53	1
m,p-Xylenes	<0.00113		0.00500	0.00113	-			06/12/24 19:53	1
o-Xylene	<0.000488	U	0.00200	0.000488				06/12/24 19:53	1
trans-1,2-Dichloroethene	<0.000903		0.00500	0.000903				06/12/24 19:53	1
trans-1,3-Dichloropropene	<0.00195	U	0.00500	0.00195	mg/L			06/12/24 19:53	1
Trihalomethanes, Total	<1.75	U	5.00	1.75	ug/L			06/12/24 19:53	1
Vinyl acetate	<0.00169	U	0.00500	0.00169	mg/L			06/12/24 19:53	1
1,3-Dichloropropene, Total	<0.00195	U	0.00500	0.00195	mg/L			06/12/24 19:53	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	_	76 - 118					06/12/24 19:53	1
4-Bromofluorobenzene (Surr)	105		76 - 119					06/12/24 19:53	1
Dibromofluoromethane (Surr)	99		61 - 132					06/12/24 19:53	1

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06/12/24 19:53

74 - 130

100

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14

Client: North Texas Municipal Water District

<2.33 U

Cyanide, Amenable (SM 4500 CN G)

Project/Site: SBX Permit Renewal SDG: 2421003

Client Sample ID: 2421003-03 (Effluent G) Lab Sample ID: 870-27737-2

Date Collected: 06/12/24 08:55 **Matrix: Water** Date Received: 06/12/24 16:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr	0.000401	J	0.00300	0.000325	mg/L		06/17/24 08:00	06/17/24 13:39	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	1.55	J	5.55	1.27	mg/L			06/18/24 10:05	1
Cyanide, Total (EPA 335.4)	3.19	J	5.00	2.00	ug/L		06/13/24 16:57	06/13/24 19:25	1
Phenols, Total (EPA 420.4)	<5.80	U	10.0	5.80	ug/L			06/19/24 21:12	1
Cyanide, Non-amenable (SM 4500 CN G NonAm)	4.71	J	5.00	2.33	ug/L		06/14/24 17:07	06/14/24 20:45	1
Cr (VI) (SW846 7196A)	8.41	J	10.0	2.80	ug/L			06/12/24 18:12	1
Cr (III) (SM 3500 CR B)	<2.00	U	3.00	2.00	ug/L			06/24/24 22:15	1
Cr (III) (SM 3500 CR B)	<2.00	U	3.00	2.00	ug/L			06/24/24 22:15	1

5.00

2.33 ug/L

Job ID: 870-27737-1

06/18/24 18:21

Surrogate Summary

Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal

Job ID: 870-27737-1 SDG: 2421003

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

				or corre carry	ogate Reco
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(76-118)	(76-119)	(61-132)	(74-130)
870-27737-2	2421003-03 (Effluent G)	101	105	99	100
LCS 870-20655/3	Lab Control Sample	100	100	101	101
LCSD 870-20655/4	Lab Control Sample Dup	106	100	104	100
MB 870-20655/5	Method Blank	104	99	96	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

_		Percent Surrogate Recovery (Acceptance Limits)								
		TBP	FBP	2FP	NBZ	TPHd14	PHL			
Lab Sample ID	Client Sample ID	(31-132)	(29-112)	(28-114)	(15-314)	(20-141)	(8-424)			
870-27737-1	2421003-01 (Effluent TC)	85	65	24 S1-	62	91	15			
_CS 860-165885/2-A	Lab Control Sample	105	97	47	88	111	29			
LCSD 860-165885/3-A	Lab Control Sample Dup	103	91	44	83	109	26			
MB 860-165885/1-A	Method Blank	97	92	38	95	117	24			

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

PHL = Phenol-d5 (Surr)

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	TCX1						
Lab Sample ID	Client Sample ID	(15-136)	(18-126)						
870-27737-1	2421003-01 (Effluent TC)	122	103						
LCS 860-166167/2-A	Lab Control Sample	133	118						
LCSD 860-166167/3-A	Lab Control Sample Dup	138 S1+	127 S1+						
MB 860-166167/1-A	Method Blank	136	124						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)					
		TCX1	DCB1					
Lab Sample ID	Client Sample ID	(18-126)	(15-136)					
870-27737-1	2421003-01 (Effluent TC)	68	115 p					

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Surrogate Summary

Client: North Texas Municipal Water District Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Matrix: Water Prep Type: Total/NA

		Percent Surrogate R					
		TCX1	DCB1				
Lab Sample ID	Client Sample ID	(18-126)	(15-136)				
LCS 860-166167/4-A	Lab Control Sample	103	131				
LCSD 860-166167/5-A	Lab Control Sample Dup	110	140 S1+				
MB 860-166167/1-A	Method Blank	98	132				
Surrogate Legend							
TCX = Tetrachloro-m-x	ylene						
DCB = DCB Decachlor	obiphenyl (Surr)						

Method: 615 - Herbicides (GC)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCPAA2	
Lab Sample ID	Client Sample ID	(45-150)	
870-27737-1	2421003-01 (Effluent TC)	62	
LCS 860-166702/2-A	Lab Control Sample	109	
LCS 860-166702/4-A	Lab Control Sample	74	
LCSD 860-166702/3-A	Lab Control Sample Dup	107	
LCSD 860-166702/5-A	Lab Control Sample Dup	88	
MB 860-166702/1-A	Method Blank	134	
Surrogate Legend			

2

Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 624.1 - Volatile Organic Compounds (GC/MS)

MB MB

<0.000796 U

<0.000885 U

<0.00113 U

<0.000488 U

<0.000903 U

<0.00195 U

<0.00169 U

<0.00195 U

<1.75 U

Lab Sample ID: MB 870-20655/5

Matrix: Water

cis-1,2-Dichloroethene

m,p-Xylenes

Vinyl acetate

o-Xylene

cis-1,3-Dichloropropene

trans-1,2-Dichloroethene

Trihalomethanes, Total

trans-1,3-Dichloropropene

1,3-Dichloropropene, Total

Analysis Batch: 20655

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

		14110							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00145	U	0.00500	0.00145	mg/L			06/12/24 16:32	1
1,1,2,2-Tetrachloroethane	<0.00171	U	0.00500	0.00171	mg/L			06/12/24 16:32	1
1,1,2-Trichloroethane	< 0.000747	U	0.00200	0.000747	mg/L			06/12/24 16:32	1
1,1-Dichloroethane	<0.00103	U	0.00500	0.00103	mg/L			06/12/24 16:32	1
1,1-Dichloroethene	< 0.000575	U	0.00200	0.000575	mg/L			06/12/24 16:32	1
1,2,4-Trichlorobenzene	< 0.000593	U	0.00200	0.000593	mg/L			06/12/24 16:32	1
1,2-Dibromoethane	< 0.000631	U	0.00200	0.000631	mg/L			06/12/24 16:32	1
1,2-Dichlorobenzene	<0.000603	U	0.00200	0.000603	mg/L			06/12/24 16:32	1
1,2-Dichloroethane	< 0.00153	U	0.00500	0.00153	mg/L			06/12/24 16:32	1
1,2-Dichloropropane	<0.00155	U	0.00500	0.00155	mg/L			06/12/24 16:32	1
1,3-Dichlorobenzene	<0.00108	U	0.00500	0.00108	mg/L			06/12/24 16:32	1
1,4-Dichlorobenzene	< 0.000637	U	0.00200	0.000637	mg/L			06/12/24 16:32	1
2-Butanone	<0.00453	U	0.0200	0.00453	mg/L			06/12/24 16:32	1
2-Chloroethyl vinyl ether	<0.00120	U	0.00500	0.00120	mg/L			06/12/24 16:32	1
Acetone	<0.0213	U	0.0500	0.0213	mg/L			06/12/24 16:32	1
Acrolein	<0.0231	U	0.0500	0.0231	mg/L			06/12/24 16:32	1
Acrylonitrile	<0.00780	U	0.0500	0.00780	mg/L			06/12/24 16:32	1
Benzene	< 0.000496	U	0.00200	0.000496	mg/L			06/12/24 16:32	1
Bromodichloromethane	<0.000696	U	0.00200	0.000696	mg/L			06/12/24 16:32	1
Bromoform	<0.00133	U	0.00500	0.00133	mg/L			06/12/24 16:32	1
Bromomethane	<0.00188	U	0.00500	0.00188	mg/L			06/12/24 16:32	1
Carbon tetrachloride	<0.00126	U	0.00200	0.00126	mg/L			06/12/24 16:32	1
Chlorobenzene	< 0.000945	U	0.00500	0.000945	mg/L			06/12/24 16:32	1
Chloroethane	< 0.00145	U	0.00500	0.00145	mg/L			06/12/24 16:32	1
Chloroform	<0.00121	U	0.00500	0.00121	mg/L			06/12/24 16:32	1
Chloromethane	< 0.000941	U	0.00500	0.000941	mg/L			06/12/24 16:32	1
Dibromochloromethane	< 0.00175	U	0.00500	0.00175	mg/L			06/12/24 16:32	1
Ethylbenzene	<0.000878	U	0.00500	0.000878	mg/L			06/12/24 16:32	1
MTBE	<0.00268	U	0.0100	0.00268	mg/L			06/12/24 16:32	1
Methylene Chloride	< 0.000829	U	0.00500	0.000829	mg/L			06/12/24 16:32	1
Naphthalene	<0.000927	U	0.00500	0.000927	mg/L			06/12/24 16:32	1
Tetrachloroethene	< 0.000900	U	0.00500	0.000900	mg/L			06/12/24 16:32	1
Toluene	< 0.00161	U	0.00500	0.00161	mg/L			06/12/24 16:32	1
Xylenes, Total	<0.00113	U	0.00500	0.00113	mg/L			06/12/24 16:32	1
Trichloroethene	< 0.00169	U	0.00500	0.00169	mg/L			06/12/24 16:32	1
Trichlorofluoromethane	< 0.00124	U	0.00500	0.00124	-			06/12/24 16:32	1
Vinyl chloride	<0.000592	U	0.00200	0.000592	mg/L			06/12/24 16:32	1
					-				

0.00500

0.00500

0.00500

0.00200

0.00500

0.00500

0.00500

0.00500

5.00

0.000796 mg/L

0.000885 mg/L

0.00113 mg/L

0.000488 mg/L

0.000903 mg/L

0.00195 mg/L

0.00169 mg/L

0.00195 mg/L

1.75 ug/L

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06/12/24 16:32

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06/12/24 16:32

Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 870-20655/5

Lab Sample ID: LCS 870-20655/3

Matrix: Water

Matrix: Water

Analysis Batch: 20655

Analysis Batch: 20655

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB %Recovery Qualifier Analyzed Dil Fac Surrogate Limits Prepared 1,2-Dichloroethane-d4 (Surr) 104 76 - 118 06/12/24 16:32 4-Bromofluorobenzene (Surr) 99 76 - 119 06/12/24 16:32 Dibromofluoromethane (Surr) 96 61 - 132 06/12/24 16:32 Toluene-d8 (Surr) 100 74 - 130 06/12/24 16:32

Client Sample ID: Lab Control Sample

	Prep Type: Total/NA	
LCS LCS	%Rec	

, , , , , , , , , , , , , , , , , , , ,	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	0.0503	0.04782	mg/L		95	70 - 130	
1,1,2,2-Tetrachloroethane	0.0504	0.05061	mg/L		100	70 - 130	
1,1,2-Trichloroethane	0.0503	0.04783	mg/L		95	75 - 130	
1,1-Dichloroethane	0.0505	0.04820	mg/L		95	71 - 130	
1,1-Dichloroethene	0.0504	0.04717	mg/L		94	70 - 130	
1,2,4-Trichlorobenzene	0.0504	0.04671	mg/L		93	70 - 130	
1,2-Dibromoethane	0.0504	0.04491	mg/L		89	70 - 130	
1,2-Dichlorobenzene	0.0503	0.04658	mg/L		93	70 - 130	
1,2-Dichloroethane	0.0505	0.04584	mg/L		91	72 - 130	
1,2-Dichloropropane	0.0504	0.04767	mg/L		95	70 - 130	
1,3-Dichlorobenzene	0.0504	0.04652	mg/L		92	75 - 130	
1,4-Dichlorobenzene	0.0504	0.04645	mg/L		92	70 - 130	
2-Butanone	0.504	0.5098	mg/L		101	70 - 130	
2-Chloroethyl vinyl ether	0.0501	0.04803	mg/L		96	70 - 130	
Acetone	0.503	0.5698	mg/L		113	70 - 130	
Acrolein	0.494	0.4065	mg/L		82	70 - 130	
Acrylonitrile	0.504	0.4806	mg/L		95	70 - 130	
Benzene	0.0503	0.04667	mg/L		93	70 - 130	
Bromodichloromethane	0.0505	0.04874	mg/L		97	70 - 130	
Bromoform	0.0504	0.04987	mg/L		99	70 - 130	
Bromomethane	0.0501	0.04791	mg/L		96	70 - 130	
Carbon tetrachloride	0.0505	0.05053	mg/L		100	70 - 125	
Chlorobenzene	0.0504	0.04540	mg/L		90	70 - 130	
Chloroethane	0.0500	0.05729	mg/L		115	70 - 130	
Chloroform	0.0505	0.04485	mg/L		89	70 - 121	
Chloromethane	0.0500	0.05445	mg/L		109	70 - 130	
Dibromochloromethane	0.0503	0.04934	mg/L		98	70 - 130	
Ethylbenzene	0.0504	0.04623	mg/L		92	75 - 130	
MTBE	0.0503	0.05043	mg/L		100	70 - 130	
Methylene Chloride	0.0504	0.04400	mg/L		87	70 - 130	
Naphthalene	0.0502	0.04908	mg/L		98	70 - 130	
Tetrachloroethene	0.0503	0.04535	mg/L		90	70 - 130	
Toluene	0.0505	0.04487	mg/L		89	75 - 130	
Trichloroethene	0.0503	0.04698	mg/L		93	75 - 130	
Trichlorofluoromethane	0.0500	0.05956	mg/L		119	70 - 130	
Vinyl chloride	0.0500	0.05712	mg/L		114	70 - 130	
cis-1,2-Dichloroethene	0.0503	0.04868	mg/L		97	70 - 130	
cis-1,3-Dichloropropene	0.0505	0.04837	mg/L		96	70 - 130	

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Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 870-20655/3

Lab Sample ID: LCSD 870-20655/4

Matrix: Water

Analysis Batch: 20655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Бріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
m,p-Xylenes	0.0503	0.04542		mg/L		90	70 - 130	
o-Xylene	0.0504	0.04669		mg/L		93	70 - 130	
trans-1,2-Dichloroethene	0.0505	0.04798		mg/L		95	70 - 130	
trans-1,3-Dichloropropene	0.0504	0.04843		mg/L		96	70 - 130	
Vinyl acetate	0.101	0.09560		mg/L		95	70 - 130	
•				-				

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		76 - 118
4-Bromofluorobenzene (Surr)	100		76 - 119
Dibromofluoromethane (Surr)	101		61 - 132
Toluene-d8 (Surr)	101		74 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 20655	Spike	LCSD	LCCD				%Rec		RPD
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1-Trichloroethane	0.0503	0.04877	<u>qua</u> or	mg/L	_ <u>-</u>	97	70 - 130	2	21
1,1,2,2-Tetrachloroethane	0.0504	0.04910		mg/L		97	70 - 130	3	25
1,1,2-Trichloroethane	0.0503	0.04747		mg/L		94	75 - 130	1	25
1,1-Dichloroethane	0.0505	0.04752		mg/L		94	71 - 130	1	24
1,1-Dichloroethene	0.0504	0.04667		mg/L		93	70 - 130	1	25
1,2,4-Trichlorobenzene	0.0504	0.04571		mg/L		91	70 - 130	2	25
1,2-Dibromoethane	0.0504	0.04397		mg/L		87	70 - 130	2	25
1,2-Dichlorobenzene	0.0503	0.04543		mg/L		90	70 - 130	2	25
1,2-Dichloroethane	0.0505	0.04553		mg/L		90	72 - 130	1	25
1,2-Dichloropropane	0.0504	0.04755		mg/L		94	70 - 130	0	25
1,3-Dichlorobenzene	0.0504	0.04502		mg/L		89	75 - 130	3	24
1,4-Dichlorobenzene	0.0504	0.04472		mg/L		89	70 - 130	4	25
2-Butanone	0.504	0.5251		mg/L		104	70 - 130	3	25
2-Chloroethyl vinyl ether	0.0501	0.04859		mg/L		97	70 - 130	1	25
Acetone	0.503	0.5898		mg/L		117	70 - 130	3	25
Acrolein	0.494	0.4218		mg/L		85	70 - 130	4	25
Acrylonitrile	0.504	0.5001		mg/L		99	70 - 130	4	25
Benzene	0.0503	0.04630		mg/L		92	70 - 130	1	25
Bromodichloromethane	0.0505	0.04876		mg/L		97	70 - 130	0	25
Bromoform	0.0504	0.04885		mg/L		97	70 - 130	2	25
Bromomethane	0.0501	0.04951		mg/L		99	70 - 130	3	25
Carbon tetrachloride	0.0505	0.05049		mg/L		100	70 - 125	0	25
Chlorobenzene	0.0504	0.04481		mg/L		89	70 - 130	1	25
Chloroethane	0.0500	0.05725		mg/L		115	70 - 130	0	25
Chloroform	0.0505	0.04724		mg/L		94	70 - 121	5	25
Chloromethane	0.0500	0.05247		mg/L		105	70 - 130	4	25
Dibromochloromethane	0.0503	0.04820		mg/L		96	70 - 130	2	25
Ethylbenzene	0.0504	0.04560		mg/L		90	75 - 130	1	25
MTBE	0.0503	0.05150		mg/L		102	70 - 130	2	25
Methylene Chloride	0.0504	0.04579		mg/L		91	70 - 130	4	25
Naphthalene	0.0502	0.04821		mg/L		96	70 - 130	2	25

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3

4

12

Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 870-20655/4

Matrix: Water

Analysis Batch: 20655

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

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Tetrachloroethene	0.0503	0.04438		mg/L		88	70 - 130	2	23
Toluene	0.0505	0.04407		mg/L		87	75 - 130	2	22
Trichloroethene	0.0503	0.04652		mg/L		93	75 - 130	1	25
Trichlorofluoromethane	0.0500	0.05921		mg/L		118	70 - 130	1	25
Vinyl chloride	0.0500	0.05643		mg/L		113	70 - 130	1	25
cis-1,2-Dichloroethene	0.0503	0.04955		mg/L		98	70 - 130	2	25
cis-1,3-Dichloropropene	0.0505	0.04851		mg/L		96	70 - 130	0	25
m,p-Xylenes	0.0503	0.04532		mg/L		90	70 - 130	0	25
o-Xylene	0.0504	0.04607		mg/L		91	70 - 130	1	25
trans-1,2-Dichloroethene	0.0505	0.04914		mg/L		97	70 - 130	2	25
trans-1,3-Dichloropropene	0.0504	0.04802		mg/L		95	70 - 130	1	25
Vinyl acetate	0.101	0.09354		mg/L		93	70 - 130	2	25

LCSD LCSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 106 76 - 118 4-Bromofluorobenzene (Surr) 100 76 - 119 Dibromofluoromethane (Surr) 104 61 - 132 Toluene-d8 (Surr) 74 - 130 100

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-165885/1-A

Matrix: Water

Analysis Batch: 165945

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

Prep Batch: 165885

Analysis Batch: 165945								Prep Batch:	100000
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<1.32	U	10.0	1.32	ug/L		06/14/24 05:30	06/14/24 14:51	1
Acenaphthene	<1.39	U	5.70	1.39	ug/L		06/14/24 05:30	06/14/24 14:51	1
Acenaphthylene	<1.41	U	10.0	1.41	ug/L		06/14/24 05:30	06/14/24 14:51	1
Anthracene	<1.50	U	5.70	1.50	ug/L		06/14/24 05:30	06/14/24 14:51	1
Benzidine	<4.80	U	20.0	4.80	ug/L		06/14/24 05:30	06/14/24 14:51	1
Benzo[a]anthracene	<0.173	U	5.00	0.173	ug/L		06/14/24 05:30	06/14/24 14:51	1
Benzo[a]pyrene	<0.364	U	5.00	0.364	ug/L		06/14/24 05:30	06/14/24 14:51	1
Benzo[b]fluoranthene	<2.04	U	10.0	2.04	ug/L		06/14/24 05:30	06/14/24 14:51	1
Benzo[g,h,i]perylene	<2.68	U	10.0	2.68	ug/L		06/14/24 05:30	06/14/24 14:51	1
Benzo[k]fluoranthene	< 0.375	U	5.00	0.375	ug/L		06/14/24 05:30	06/14/24 14:51	1
Butyl benzyl phthalate	< 0.337	U	5.00	0.337	ug/L		06/14/24 05:30	06/14/24 14:51	1
Bis(2-chloroethyl)ether	<2.16	U	10.0	2.16	ug/L		06/14/24 05:30	06/14/24 14:51	1
2,4,5-Trichlorophenol	<2.00	U	10.0	2.00	ug/L		06/14/24 05:30	06/14/24 14:51	1
Bis(2-chloroethoxy)methane	<1.76	U	10.0	1.76	ug/L		06/14/24 05:30	06/14/24 14:51	1
Bis(2-ethylhexyl) phthalate	<0.277	U	5.00	0.277	ug/L		06/14/24 05:30	06/14/24 14:51	1
4-Chlorophenyl phenyl ether	<1.28	U	10.0	1.28	ug/L		06/14/24 05:30	06/14/24 14:51	1
4-Bromophenyl phenyl ether	<0.256	U	5.00	0.256	ug/L		06/14/24 05:30	06/14/24 14:51	1
2-Chloronaphthalene	< 0.462	U	5.00	0.462	ug/L		06/14/24 05:30	06/14/24 14:51	1
Chrysene	<0.222	U	5.00	0.222	ug/L		06/14/24 05:30	06/14/24 14:51	1
Dibenz(a,h)anthracene	<0.246	U	5.00	0.246	ug/L		06/14/24 05:30	06/14/24 14:51	1
Diethyl phthalate	<1.59	U	5.00	1.59	ug/L		06/14/24 05:30	06/14/24 14:51	1
Dimethyl phthalate	<0.299	U	2.50	0.299	ug/L		06/14/24 05:30	06/14/24 14:51	1
Di-n-butyl phthalate	<0.252	U	5.00	0.252	ug/L		06/14/24 05:30	06/14/24 14:51	1

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Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

MB MB

Lab Sample ID: MB 860-165885/1-A

Matrix: Water

Surrogate

2,4,6-Tribromophenol (Surr)

2-Fluorobiphenyl (Surr)

2-Fluorophenol (Surr)

Nitrobenzene-d5 (Surr)

Analysis Batch: 165945

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 165885

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.00162	U	0.0100	0.00162	mg/L		06/14/24 05:30	06/14/24 14:51	1
3 & 4 Methylphenol	<0.00262	U	0.0100	0.00262	mg/L		06/14/24 05:30	06/14/24 14:51	1
3,3'-Dichlorobenzidine	< 0.341	U	5.00	0.341	ug/L		06/14/24 05:30	06/14/24 14:51	1
2,4-Dinitrotoluene	<1.31	U	10.0	1.31	ug/L		06/14/24 05:30	06/14/24 14:51	1
2,6-Dinitrotoluene	<1.61	U	5.00	1.61	ug/L		06/14/24 05:30	06/14/24 14:51	1
Azobenzene	<1.50	U	10.0	1.50	ug/L		06/14/24 05:30	06/14/24 14:51	1
Fluoranthene	<1.59	U	5.00	1.59	ug/L		06/14/24 05:30	06/14/24 14:51	1
Fluorene	<1.63	U	5.00	1.63	ug/L		06/14/24 05:30	06/14/24 14:51	1
Hexachlorobenzene	< 0.307	U	5.00	0.307	ug/L		06/14/24 05:30	06/14/24 14:51	1
Hexachlorobutadiene	<0.238	U	1.00	0.238	ug/L		06/14/24 05:30	06/14/24 14:51	1
Hexachlorocyclopentadiene	<4.58	U	10.0	4.58	ug/L		06/14/24 05:30	06/14/24 14:51	1
Hexachloroethane	< 0.526	U	4.80	0.526	ug/L		06/14/24 05:30	06/14/24 14:51	1
Indeno[1,2,3-cd]pyrene	<2.29	U	5.00	2.29	ug/L		06/14/24 05:30	06/14/24 14:51	1
Isophorone	<1.64	U	5.00	1.64	ug/L		06/14/24 05:30	06/14/24 14:51	1
Naphthalene	< 0.542	U	2.50	0.542	ug/L		06/14/24 05:30	06/14/24 14:51	1
Nitrobenzene	<1.66	U	5.00	1.66	ug/L		06/14/24 05:30	06/14/24 14:51	1
N-Nitrosodimethylamine	<2.02	U	10.0	2.02	ug/L		06/14/24 05:30	06/14/24 14:51	1
Phenanthrene	<1.42	U	10.0		ug/L		06/14/24 05:30	06/14/24 14:51	1
Pyrene	<0.178	U	5.00	0.178	ug/L		06/14/24 05:30	06/14/24 14:51	1
1,2,4-Trichlorobenzene	<0.00161	U	0.00500	0.00161			06/14/24 05:30	06/14/24 14:51	1
2-Chlorophenol	< 0.649	U	5.00	0.649	ug/L		06/14/24 05:30	06/14/24 14:51	1
4-Chloro-3-methylphenol	<1.57	U	5.00	1.57	ug/L		06/14/24 05:30	06/14/24 14:51	1
2,4-Dichlorophenol	<0.314	U	5.00	0.314	.		06/14/24 05:30	06/14/24 14:51	1
2,4-Dimethylphenol	< 0.649	U	5.00	0.649	-		06/14/24 05:30	06/14/24 14:51	1
2,4-Dinitrophenol	<1.61	U	10.0	1.61	ug/L		06/14/24 05:30	06/14/24 14:51	1
2-Nitrophenol	<1.67	U	10.0	1.67	ug/L		06/14/24 05:30	06/14/24 14:51	1
4-Nitrophenol	<4.91	U	7.20	4.91	ug/L		06/14/24 05:30	06/14/24 14:51	1
Pentachlorophenol	< 0.000234	U	0.0100	0.000234	-		06/14/24 05:30	06/14/24 14:51	1
Phenol	<0.423	U	4.50	0.423	ug/L		06/14/24 05:30	06/14/24 14:51	1
2,4,6-Trichlorophenol	<1.42	U	5.00	1.42	ug/L		06/14/24 05:30	06/14/24 14:51	1
Di-n-octyl phthalate	< 0.373	U	5.00	0.373	ug/L		06/14/24 05:30	06/14/24 14:51	1
N-Nitrosodi-n-propylamine	<2.88	U	10.0	2.88	ug/L		06/14/24 05:30	06/14/24 14:51	1
N-Nitrosodiphenylamine	<1.81	U	10.0		ug/L		06/14/24 05:30	06/14/24 14:51	1
2,2'-oxybis[1-chloropropane]	<1.79	U	10.0		ug/L		06/14/24 05:30	06/14/24 14:51	1
4,6-Dinitro-2-methylphenol	<1.44		10.0	1.44	ug/L		06/14/24 05:30	06/14/24 14:51	1
1,2-Diphenylhydrazine	<1.49	U	10.0		ug/L		06/14/24 05:30	06/14/24 14:51	1
N-Nitrosodi-n-butylamine	<1.49	U	10.0		ug/L		06/14/24 05:30	06/14/24 14:51	1
N-Nitrosodiethylamine	<1.75		10.0		ug/L			06/14/24 14:51	1
4-Nonylphenol	<10.0		10.0		ug/L			06/14/24 14:51	1
Pentachlorobenzene	<1.07		10.0		ug/L			06/14/24 14:51	1
Pyridine	<2.64		10.0		ug/L			06/14/24 14:51	1
Total Cresols	<2.62		10.0		ug/L			06/14/24 14:51	1

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Analyzed

Prepared

06/14/24 05:30 06/14/24 14:51

06/14/24 05:30 06/14/24 14:51

06/14/24 05:30 06/14/24 14:51

06/14/24 05:30 06/14/24 14:51

Limits

31 - 132

29 - 112

28 - 114

15-314

MB MB

97

92

38

95

Qualifier

%Recovery

3

Dil Fac

Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal

Job ID: 870-27737-1 SDG: 2421003

Dil Fac

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-165885/1-A

Matrix: Water

Analysis Batch: 165945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165885

Analyzed

	MB	MB
rrogate	%Recovery	Qua

Surrogate	%Recovery Qualifier	Limits
p-Terphenyl-d14 (Surr)	117	20 - 141
Phenol-d5 (Surr)	24	8 - 424

00/14/24 05.50	00/14/24 14.51
06/14/24 05:30	06/14/24 14:51

Prepared

Lab Sample ID: LCS 860-165885/2-A

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

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 165945			Prep Batch: 165885
	Spike	LCS LCS	%Rec

	Spike		LCS		_		%Rec	
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	
1,2,4,5-Tetrachlorobenzene	40.0	40.03		ug/L		100	41 - 125	
Acenaphthene	40.0	39.77		ug/L		99	60 - 132	
Acenaphthylene	40.0	39.56		ug/L		99	54 - 126	
Anthracene	40.0	44.02		ug/L		110	43 - 120	
Benzidine	40.0	8.349	J *-	ug/L		21	25 - 125	
Benzo[a]anthracene	40.0	43.51		ug/L		109	42 - 133	
Benzo[a]pyrene	40.0	42.93		ug/L		107	32 - 148	
Benzo[b]fluoranthene	40.0	46.25		ug/L		116	42 - 140	
Benzo[g,h,i]perylene	40.0	45.50		ug/L		114	13 - 195	
Benzo[k]fluoranthene	40.0	42.45		ug/L		106	25 - 146	
Butyl benzyl phthalate	40.0	44.46		ug/L		111	12 - 140	
Bis(2-chloroethyl)ether	40.0	34.36		ug/L		86	43 - 126	
2,4,5-Trichlorophenol	40.0	46.46	*+	ug/L		116	35 - 111	
Bis(2-chloroethoxy)methane	40.0	37.15		ug/L		93	49 - 165	
Bis(2-ethylhexyl) phthalate	40.0	44.12		ug/L		110	29 - 137	
4-Chlorophenyl phenyl ether	40.0	43.34		ug/L		108	38 - 145	
4-Bromophenyl phenyl ether	40.0	44.15		ug/L		110	65 - 120	
2-Chloronaphthalene	40.0	39.40		ug/L		99	65 - 120	
Chrysene	40.0	44.90		ug/L		112	44 - 140	
Dibenz(a,h)anthracene	40.0	43.03		ug/L		108	16 - 200	
Diethyl phthalate	40.0	44.70		ug/L		112	17 - 120	
Dimethyl phthalate	40.0	41.61		ug/L		104	25 - 120	
Di-n-butyl phthalate	40.0	40.76		ug/L		102	8 - 120	
2-Methylphenol	0.0400	0.02362		mg/L		59	14 - 176	
3 & 4 Methylphenol	0.0400	0.02217		mg/L		55	14 - 176	
3,3'-Dichlorobenzidine	40.0	45.76		ug/L		114	18 - 213	
2,4-Dinitrotoluene	40.0	46.11		ug/L		115	48 - 127	
2,6-Dinitrotoluene	40.0	42.94		ug/L		107	68 - 137	
Azobenzene	40.0	37.12		ug/L		93	28 - 136	
Fluoranthene	40.0	43.80		ug/L		109	43 - 121	
Fluorene	40.0	42.66		ug/L		107	70 - 120	
Hexachlorobenzene	40.0	42.58		ug/L		106	8 - 142	
Hexachlorobutadiene	40.0	36.06		ug/L		90	38 - 120	
Hexachlorocyclopentadiene	40.0	38.74		ug/L		97	41 - 125	
Hexachloroethane	40.0	29.50		ug/L		74	55 - 120	
Indeno[1,2,3-cd]pyrene	40.0	45.03		ug/L		113	13 - 151	
Isophorone	40.0	35.46		ug/L		89	47 - 180	
Naphthalene	40.0	35.66		ug/L		89	36 - 120	
Nitrobenzene	40.0	36.52		ug/L ug/L		91	54 ₋ 158	
N-Nitrosodimethylamine	40.0	16.99		ug/L ug/L		42	20 - 125	
14-14111 OSOGIII IEUT YIGITIII IE	40.0	10.99		ug/L		42	20 - 123	

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Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-165885/2-A

Matrix: Water

Analysis Batch: 165945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 165885**

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Phenanthrene	40.0	42.12		ug/L		105	65 - 120	
Pyrene	40.0	45.63		ug/L		114	70 - 120	
1,2,4-Trichlorobenzene	0.0400	0.04067		mg/L		102	57 - 130	
2-Chlorophenol	40.0	31.25		ug/L		78	36 - 120	
4-Chloro-3-methylphenol	40.0	36.24		ug/L		91	41 - 128	
2,4-Dichlorophenol	40.0	40.40		ug/L		101	53 - 122	
2,4-Dimethylphenol	40.0	29.84		ug/L		75	42 - 120	
2,4-Dinitrophenol	40.0	49.10		ug/L		123	12 - 173	
2-Nitrophenol	40.0	38.00		ug/L		95	45 - 167	
4-Nitrophenol	40.0	17.93		ug/L		45	13 - 129	
Pentachlorophenol	0.0400	0.04122		mg/L		103	38 - 152	
Phenol	40.0	13.68		ug/L		34	17 - 120	
2,4,6-Trichlorophenol	40.0	43.96		ug/L		110	52 - 129	
Di-n-octyl phthalate	40.0	40.02		ug/L		100	19 - 132	
N-Nitrosodi-n-propylamine	40.0	33.07		ug/L		83	14 - 198	
N-Nitrosodiphenylamine	40.0	43.31		ug/L		108	2 - 196	
2,2'-oxybis[1-chloropropane]	40.0	34.70		ug/L		87	63 - 139	
4,6-Dinitro-2-methylphenol	40.0	44.04		ug/L		110	53 - 130	
1,2-Diphenylhydrazine	40.0	37.12		ug/L		93	28 - 136	
N-Nitrosodi-n-butylamine	40.0	35.29		ug/L		88	33 - 141	
N-Nitrosodiethylamine	40.0	36.58		ug/L		91	30 - 160	
Pentachlorobenzene	40.0	41.28		ug/L		103	25 - 131	
Pyridine	80.0	8.309		ug/L		10	5 - 94	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	105		31 - 132
2-Fluorobiphenyl (Surr)	97		29 - 112
2-Fluorophenol (Surr)	47		28 - 114
Nitrobenzene-d5 (Surr)	88		15-314
p-Terphenyl-d14 (Surr)	111		20 - 141
Phenol-d5 (Surr)	29		8 - 424

Lab Sample ID: LCSD 860-165885/3-A

Matrix: Water

Analysis Batch: 165945

Client Sam	ple ID: I	Lab Contro	I Samp	ole Du	p
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Prep Type: Total/NA Prep Batch: 165885

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2,4,5-Tetrachlorobenzene	40.0	38.74		ug/L		97	41 - 125	3	30
Acenaphthene	40.0	37.94		ug/L		95	60 - 132	5	29
Acenaphthylene	40.0	37.70		ug/L		94	54 - 126	5	30
Anthracene	40.0	41.87		ug/L		105	43 - 120	5	30
Benzidine	40.0	17.04	J *1	ug/L		43	25 - 125	68	30
Benzo[a]anthracene	40.0	42.17		ug/L		105	42 - 133	3	30
Benzo[a]pyrene	40.0	41.28		ug/L		103	32 - 148	4	30
Benzo[b]fluoranthene	40.0	44.36		ug/L		111	42 - 140	4	30
Benzo[g,h,i]perylene	40.0	44.35		ug/L		111	13 - 195	3	30
Benzo[k]fluoranthene	40.0	40.80		ug/L		102	25 - 146	4	30
Butyl benzyl phthalate	40.0	42.60		ug/L		106	12 - 140	4	30

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Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-165885/3-A

Matrix: Water

Nitrobenzene

Phenanthrene

2-Chlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

Pentachlorophenol

2,4,6-Trichlorophenol

N-Nitrosodi-n-propylamine

2,2'-oxybis[1-chloropropane]

4,6-Dinitro-2-methylphenol

1,2-Diphenylhydrazine

N-Nitrosodi-n-butylamine

N-Nitrosodiphenylamine

Di-n-octyl phthalate

2,4-Dinitrophenol

2-Nitrophenol

4-Nitrophenol

Phenol

Pyrene

N-Nitrosodimethylamine

1,2,4-Trichlorobenzene

4-Chloro-3-methylphenol

Analysis Batch: 165945

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 165885**

Amalyolo Batolii 100040							op Be		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Bis(2-chloroethyl)ether	40.0	32.99		ug/L		82	43 - 126	4	30
2,4,5-Trichlorophenol	40.0	44.29		ug/L		111	35 - 111	5	30
Bis(2-chloroethoxy)methane	40.0	36.48		ug/L		91	49 - 165	2	30
Bis(2-ethylhexyl) phthalate	40.0	42.93		ug/L		107	29 - 137	3	30
4-Chlorophenyl phenyl ether	40.0	41.46		ug/L		104	38 - 145	4	30
4-Bromophenyl phenyl ether	40.0	43.16		ug/L		108	65 - 120	2	26
2-Chloronaphthalene	40.0	37.43		ug/L		94	65 - 120	5	15
Chrysene	40.0	43.67		ug/L		109	44 - 140	3	30
Dibenz(a,h)anthracene	40.0	41.73		ug/L		104	16 - 200	3	30
Diethyl phthalate	40.0	41.80		ug/L		105	17 - 120	7	30
Dimethyl phthalate	40.0	38.99		ug/L		97	25 - 120	7	30
Di-n-butyl phthalate	40.0	38.82		ug/L		97	8 - 120	5	28
2-Methylphenol	0.0400	0.02263		mg/L		57	14 - 176	4	30
3 & 4 Methylphenol	0.0400	0.02090		mg/L		52	14 - 176	6	30
3,3'-Dichlorobenzidine	40.0	44.29		ug/L		111	18 - 213	3	30
2,4-Dinitrotoluene	40.0	42.87		ug/L		107	48 - 127	7	25
2,6-Dinitrotoluene	40.0	40.35		ug/L		101	68 - 137	6	29
Azobenzene	40.0	36.42		ug/L		91	28 - 136	2	30
Fluoranthene	40.0	42.27		ug/L		106	43 - 121	4	30
Fluorene	40.0	40.15		ug/L		100	70 - 120	6	23
Hexachlorobenzene	40.0	41.46		ug/L		104	8 - 142	3	30
Hexachlorobutadiene	40.0	34.07		ug/L		85	38 - 120	6	30
Hexachlorocyclopentadiene	40.0	38.45		ug/L		96	41 - 125	1	30
Hexachloroethane	40.0	26.76		ug/L		67	55 - 120	10	30
Indeno[1,2,3-cd]pyrene	40.0	43.48		ug/L		109	13 - 151	4	30
Isophorone	40.0	35.10		ug/L		88	47 - 180	1	30
Naphthalene	40.0	33.90		ug/L		85	36 - 120	5	30

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0.0400

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16.08

40.67

44.40

30.01

34.84

39.61

29.09

47.20

38.28

15.81

12.60

42.43

38.87

31.80

41.95

33.60

43.12

36.42

34.10

0.04197

0.03872

ug/L

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36 - 120

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45 - 167

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Client: North Texas Municipal Water District

Lab Sample ID: LCSD 860-165885/3-A

Matrix: Water

Surrogate

Analysis Batch: 165945

Project/Site: SBX Permit Renewal

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 165885**

Job ID: 870-27737-1

SDG: 2421003

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
N-Nitrosodiethylamine	40.0	35.39		ug/L		88	30 - 160	3	30	
Pentachlorobenzene	40.0	38.96		ug/L		97	25 - 131	6	30	
Pyridine	80.0	13.74	*1	ug/L		17	5 - 94	49	30	

LCSD LCSD %Recovery Qualifier Limits 31 - 132 103 91 29 - 112 44 28 - 114

2,4,6-Tribromophenol (Surr) 2-Fluorobiphenyl (Surr) 2-Fluorophenol (Surr) Nitrobenzene-d5 (Surr) 83 15-314 p-Terphenyl-d14 (Surr) 109 20 - 141 Phenol-d5 (Surr) 26 8 - 424

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 860-166167/1-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA **Analysis Batch: 166572 Prep Batch: 166167**

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Aldrin <0.00113 U 0.0100 0.00113 ug/L 06/15/24 07:58 06/18/24 10:57 06/15/24 07:58 06/18/24 10:57 alpha-BHC <0.00142 U 0.00900 0.00142 ug/L beta-BHC <0.00389 U 0.0180 0.00389 ug/L 06/15/24 07:58 06/18/24 10:57 delta-BHC <0.00245 U 0.250 0.00245 ug/L 06/15/24 07:58 06/18/24 10:57 gamma-BHC (Lindane) <0.00299 U 0.0100 0.00299 ug/L 06/15/24 07:58 06/18/24 10:57 4,4'-DDD 0.0100 0.000814 ug/L 06/15/24 07:58 06/18/24 10:57 <0.000814 U 4,4'-DDE <0.00109 U 0.0100 0.00109 ug/L 06/15/24 07:58 06/18/24 10:57 4,4'-DDT 0.00379 ug/L <0.00379 U 0.0200 06/15/24 07:58 06/18/24 10:57 Dieldrin <0.000953 U 0.0100 0.000953 ug/L 06/15/24 07:58 06/18/24 10:57 Endosulfan I 0.0100 0.00107 ug/L 06/15/24 07:58 06/18/24 10:57 <0.00107 U 0.0100 06/15/24 07:58 06/18/24 10:57 Endosulfan II <0.00122 U 0.00122 ug/L Endosulfan sulfate <0.00112 U 0.0100 0.00112 ug/L 06/15/24 07:58 06/18/24 10:57 Endrin <0.00156 U 0.0100 0.00156 ug/L 06/15/24 07:58 06/18/24 10:57 Endrin aldehyde <0.00118 U 0.0100 0.00118 ug/L 06/15/24 07:58 06/18/24 10:57 Dicofol <0.0000500 U 0.000100 0.0000500 mg/L 06/15/24 07:58 06/18/24 10:57 0.00446 ug/L Heptachlor <0.00446 U 0.00900 06/15/24 07:58 06/18/24 10:57 Heptachlor epoxide <0.00134 U 0.0100 0.00134 ug/L 06/15/24 07:58 06/18/24 10:57 Toxaphene <0.0769 U 0.100 0.0769 ug/L 06/15/24 07:58 06/18/24 10:57 Chlordane 06/15/24 07:58 06/18/24 10:57 <0.103 U 0.0400 0.103 ug/L Methoxychlor <0.0000390 U 0.0000200 0.0000039 mg/L 06/15/24 07:58 06/18/24 10:57 Mirex <0.0000200 U 0.0000200 0.0000200 mg/L 06/15/24 07:58 06/18/24 10:57

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 06/15/24 07:58 06/18/24 10:57 DCB Decachlorobiphenyl (Surr) 15 - 136 136 Tetrachloro-m-xylene 124 18 - 126 06/15/24 07:58 06/18/24 10:57

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Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 860-166167/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Prep Type: Total/NA Analysis Batch: 166572 Prep Batch: 166167

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aldrin	0.100	0.1075		ug/L		108	42 - 140	
alpha-BHC	0.100	0.1039		ug/L		104	37 - 140	
beta-BHC	0.100	0.1279		ug/L		128	17 - 147	
delta-BHC	0.100	0.03479		ug/L		35	19 - 140	
gamma-BHC (Lindane)	0.100	0.1163		ug/L		116	34 - 140	
4,4'-DDD	0.100	0.1287		ug/L		129	31 - 141	
4,4'-DDE	0.100	0.1232		ug/L		123	30 - 145	
4,4'-DDT	0.100	0.1299		ug/L		130	25 - 160	
Dieldrin	0.100	0.1201		ug/L		120	36 - 146	
Endosulfan I	0.100	0.1291		ug/L		129	45 - 153	
Endosulfan II	0.100	0.1307		ug/L		131	22 - 171	
Endosulfan sulfate	0.100	0.09982		ug/L		100	26 - 144	
Endrin	0.100	0.1298		ug/L		130	30 - 147	
Endrin aldehyde	0.100	0.1137		ug/L		114	60 - 130	
Heptachlor	0.100	0.1240		ug/L		124	34 - 140	
Heptachlor epoxide	0.100	0.1244		ug/L		124	37 - 142	
Methoxychlor	0.000100	0.0001299		mg/L		130	50 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	133		15 - 136
Tetrachloro-m-xvlene	118		18 - 126

Lab Sample ID: LCSD 860-166167/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Water Analysis Batch: 166572							Prep Ty Prep Ba		
7 maryolo Batom 100012	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aldrin	0.100	0.1205		ug/L		120	42 - 140	11	30
alpha-BHC	0.100	0.1151		ug/L		115	37 - 140	10	30
beta-BHC	0.100	0.1416		ug/L		142	17 - 147	10	30
delta-BHC	0.100	0.03849		ug/L		38	19 - 140	10	30
gamma-BHC (Lindane)	0.100	0.1289		ug/L		129	34 - 140	10	30
4,4'-DDD	0.100	0.1372		ug/L		137	31 - 141	6	30
4,4'-DDE	0.100	0.1325		ug/L		132	30 - 145	7	30
4,4'-DDT	0.100	0.1389		ug/L		139	25 - 160	7	30
Dieldrin	0.100	0.1297		ug/L		130	36 - 146	8	30
Endosulfan I	0.100	0.1405		ug/L		141	45 - 153	8	30
Endosulfan II	0.100	0.1396		ug/L		140	22 - 171	7	30
Endosulfan sulfate	0.100	0.1075		ug/L		107	26 - 144	7	30
Endrin	0.100	0.1416		ug/L		142	30 - 147	9	30
Endrin aldehyde	0.100	0.1164		ug/L		116	60 - 130	2	30
Heptachlor	0.100	0.1379		ug/L		138	34 - 140	11	30
Heptachlor epoxide	0.100	0.1357		ug/L		136	37 - 142	9	30
Methoxychlor	0.000100	0.0001404	*+	mg/L		140	50 - 130	8	30

	LCSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	138	S1+	15 - 136
Tetrachloro-m-xylene	127	S1+	18 - 126

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Client: North Texas Municipal Water District Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 860-166167/1-A

Matrix: Water

Analysis Batch: 166350

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 166167

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0125	U	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 12:24	1
PCB-1242	<0.0125	U	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 12:24	1
PCB-1254	<0.00780	U	0.100	0.00780	ug/L		06/15/24 07:58	06/17/24 12:24	1
PCB-1221	<0.0125	U	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 12:24	1
PCB-1232	<0.0125	U	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 12:24	1
PCB-1248	<0.0125	U	0.100	0.0125	ug/L		06/15/24 07:58	06/17/24 12:24	1
PCB-1260	<0.00780	U	0.100	0.00780	ug/L		06/15/24 07:58	06/17/24 12:24	1
Polychlorinated biphenyls, Total	<0.100	U	0.100	0.100	ug/L		06/15/24 07:58	06/17/24 12:24	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98	18 - 126	06/15/24 07:58	06/17/24 12:24	
DCB Decachlorobiphenyl (Surr)	132	15 - 136	06/15/24 07:58	06/17/24 12:24	

Lab Sample ID: LCS 860-166167/4-A

Matrix: Water

Analysis Batch: 166350

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

Prep Batch: 166167 %Rec

-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
PCB-1016	 1.00	0.9694		ug/L		97	61 - 103
PCB-1260	1.00	1.117		ug/L		112	37 - 130

LCS LCS

Surrogate	%Recovery Qι	ıalifier	Limits
Tetrachloro-m-xylene	103		18 - 126
DCB Decachlorobiphenyl (Surr)	131		15 - 136

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 860-166167/5-A **Matrix: Water**

Analysis Batch: 166350

Prep Type: Total/NA **Prep Batch: 166167** RPN

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
PCB-1016	1.00	1.062	*+	ug/L		106	61 - 103	9	24	
PCB-1260	1.00	1.247		ug/L		125	37 - 130	11	28	

LCSD LCSD 9/ Bossyany Ouglifion

Surrogate	%Recovery	Quaimer	Limits
Tetrachloro-m-xylene	110		18 - 126
DCB Decachlorobiphenyl (Surr)	140	S1+	15 ₋ 136

Method: 615 - Herbicides (GC)

Lab Sample ID: MB 860-166702/1-A

Matrix: Water

Analysis Batch: 167119

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

Prep Batch: 166702

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000539	U	0.000200	0.0000539	mg/L		06/18/24 13:50	06/20/24 13:24	1
Hexachlorophene	<0.000808	U	0.00500	0.000808	mg/L		06/18/24 13:50	06/20/24 13:24	1
Silvex (2,4,5-TP)	< 0.0000422	U	0.000200	0.0000422	mg/L		06/18/24 13:50	06/20/24 13:24	1
Dalapon	<0.0000476	U	0.000200	0.0000476	mg/L		06/18/24 13:50	06/20/24 13:24	1

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Client: North Texas Municipal Water District Job ID: 870-27737-1 Project/Site: SBX Permit Renewal

SDG: 2421003

Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: MB 860-166702/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA Analysis Batch: 167119 Prep Batch: 166702**

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dicamba	<0.0000423	U	0.000200	0.0000423	mg/L		06/18/24 13:50	06/20/24 13:24	1
Dinoseb	<0.0000343	U	0.000200	0.0000343	mg/L		06/18/24 13:50	06/20/24 13:24	1
Pentachlorophenol	<0.0000443	U	0.000200	0.0000443	mg/L		06/18/24 13:50	06/20/24 13:24	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	134		45 - 150				06/18/24 13:50	06/20/24 13:24	

Lab Sample ID: LCS 860-166702/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 167119 Prep Batch: 166702** LCS LCS Spike %Rec Added Result Qualifier Unit D %Rec Limits 2,4-D 0.00200 0.002123 mg/L 106 55 - 145 Silvex (2,4,5-TP) 0.00200 105 55 - 140 0.002100 mg/L Dalapon 0.00200 0.001921 96 50 - 150 mg/L 0.00200 Dicamba 0.002094 mg/L 105 55 - 135 Dinoseb 0.00200 0.001276 mg/L 64 20 - 100 Pentachlorophenol 0.00200 0.002268 mg/L 113 50 - 135 LCS LCS Surrogate %Recovery Qualifier Limits 2,4-Dichlorophenylacetic acid 109 45 - 150

Lab Sample ID: LCS 860-16670 Matrix: Water Analysis Batch: 167348	2/4-A				Clie	ent Sa	mple ID	: Lab Control Sample Prep Type: Total/NA Prep Batch: 166702
		Spike	LCS	LCS				%Rec
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits
Hexachlorophene		0.00800	0.008052		mg/L		101	60 - 135
Surrements 9/ B	LCS LCS	Limita						

Matrix: Water Analysis Batch: 167119							Prep Ty Prep Ba	•	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2,4-D	0.00200	0.002029		mg/L		101	55 - 145	5	25
Silvex (2,4,5-TP)	0.00200	0.002069		mg/L		103	55 - 140	1	25
Dalapon	0.00200	0.001838		mg/L		92	50 - 150	4	25
Dicamba	0.00200	0.002036		mg/L		102	55 - 135	3	25
Dinoseb	0.00200	0.001358		mg/L		68	20 - 100	6	25
Pentachlorophenol	0.00200	0.002205		mg/L		110	50 - 135	3	25

	LCSD	LCSD			
Surrogate	%Recovery	Qualifier	Limits		
2.4-Dichlorophenylacetic acid	107		45 - 150		

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LCSD LCSD

0.008875

RL

5.00

0.0900

Spike

Added

100

2.00

Spike Added

100

2.00

Result Qualifier

MDL Unit

1.85 ug/L

0.0514 ug/L

LCS LCS

LCSD LCSD

Result Qualifier

103.6

1.923

104.2

1.932

Result Qualifier

Unit

mg/L

Unit

ug/L

ug/L

Unit

ug/L

ug/L

Client: North Texas Municipal Water District Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 860-166702/5-A

Matrix: Water

Analysis Batch: 167348

Hexachlorophene LCSD LCSD

Surrogate 2,4-Dichlorophenylacetic acid %Recovery Qualifier

88

Limits 45 - 150

Spike

Added

0.00800

Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-166400/1-A

Matrix: Water

Analyte

Analysis Batch: 167049

MB MB

MB MB Result Qualifier

<0.000325 U

<0.0514 U

Analyte Result Qualifier <1.85 U

Carbaryl Diuron

Lab Sample ID: LCS 860-166400/2-A

Matrix: Water

Analysis Batch: 167049

Analyte

Carbaryl

Carbaryl

Cr

Diuron Lab Sample ID: LCSD 860-166400/3-A

Matrix: Water Analysis Batch: 167049

Analyte

Diuron Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 860-166273/1-A

Matrix: Water

Analysis Batch: 166402

Analyte

Lab Sample ID: LCS 860-166273/2-A

Matrix: Water

Analysis Batch: 166402

Analyte Cr

Spike Added

0.100 0.1042

RL

0.00300

LCS LCS

Result Qualifier

MDL Unit

0.000325 mg/L

Unit mg/L

D

%Rec 104

Prepared

Limits 85 - 115

%Rec

06/17/24 08:00 06/17/24 12:26

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

%Rec

Prepared

%Rec

%Rec

104

97

104

96

Client Sample ID: Lab Control Sample Dup

111

%Rec

Limits

60 - 135

Client Sample ID: Method Blank

06/17/24 14:00 06/19/24 18:20

06/17/24 14:00 06/19/24 18:20

Client Sample ID: Lab Control Sample

%Rec

Limits

70 - 130

70 - 130

%Rec

Limits

70 - 130

70 - 130

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Analyzed

Prep Type: Total Recoverable

Analyzed

Prep Type: Total/NA

Prep Batch: 166702

Prep Type: Total/NA

Prep Batch: 166400

Prep Type: Total/NA

Prep Batch: 166400

Prep Type: Total/NA

Prep Batch: 166400

Prep Batch: 166273

Prep Batch: 166273

RPD

RPD

10

2

3

RPD

Limit

Dil Fac

RPD

Limit

Dil Fac

20

20

1

25

6

10

13 14

16

Eurofins Dallas

Client: North Texas Municipal Water District Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003 Method: 200.8 - Metals (ICP/MS) (Continued) Lab Sample ID: LCSD 860-166273/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Total Recoverable Matrix: Water Analysis Batch: 166402 Prep Batch: 166273** Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Cr 0.100 0.1039 mg/L 104 85 - 115 0 20 Lab Sample ID: LLCS 860-166273/4-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable Analysis Batch: 166402 Prep Batch: 166273** Spike LLCS LLCS %Rec Analyte Added Result Qualifier D %Rec Limits Unit 0.00400 50 - 150 Cr 0.003121 mg/L 78 Method: 1664B - HEM and SGT-HEM Lab Sample ID: MB 870-20759/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 20759** MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 06/18/24 10:05 HEM <1.14 U 5.00 1.14 mg/L Lab Sample ID: LCS 870-20759/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 20759** Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits HEM 40.0 31.60 79 78 - 114 mg/L Lab Sample ID: LCSD 870-20759/3 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total/NA Analysis Batch: 20759** LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit HEM 40.0 31.10 mg/L 78 78 - 114 Method: 335.4 - Cyanide, Total Lab Sample ID: MB 860-165820/12-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 165928 Prep Batch: 165820** MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Cyanide, Total <2.00 U 5.00 2.00 ug/L 06/13/24 16:57 06/13/24 19:28 Client Sample ID: Method Blank Lab Sample ID: MB 860-165820/4-A **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 165928 Prep Batch: 165820**

Eurofins Dallas

Analyzed

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RL

5 00

MDL Unit

2.00 ug/L

Prepared

06/13/24 16:57 06/13/24 19:16

MB MB Result Qualifier

<2.00 U

Cyanide, Total

2

3

6

8

10

13

15

Client: North Texas Municipal Water District Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003 Method: 335.4 - Cyanide, Total (Continued) Lab Sample ID: LCS 860-165820/13-A Client Sample ID: Lab Control Sample Prep Type: Total/NA **Matrix: Water Analysis Batch: 165928 Prep Batch: 165820** Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Cyanide, Total 100 97.65 ug/L 98 90 - 110 Lab Sample ID: LCS 860-165820/5-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 165928 Prep Batch: 165820** Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit 100 90 - 110 Cyanide, Total 98.22 ug/L 98 Lab Sample ID: LCSD 860-165820/14-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 165928 Prep Batch: 165820** Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Cyanide, Total 100 94.36 90 - 110 ug/L Lab Sample ID: LLCS 860-165820/6-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 165928 Prep Batch: 165820** Spike LLCS LLCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 5.00 5.234 Cyanide, Total ug/L 105 50 - 150 Method: 420.4 - Phenolics, Total Recoverable Lab Sample ID: MB 860-167198/55 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA Analysis Batch: 167198** MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Phenols, Total <5.80 U 10.0 5.80 ug/L 06/19/24 20:53 Lab Sample ID: LCS 860-167198/56 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 167198** LCS LCS Spike %Rec Added Result Qualifier Analyte Unit %Rec Limits

Eurofins Dallas

97

%Rec

105

Client Sample ID: Lab Control Sample Dup

90 - 110

%Rec

Limits

90 - 110

Prep Type: Total/NA

RPD

100

Spike

Added

100

96.80

105.1

LCSD LCSD

Result Qualifier

ug/L

Unit

ug/L

Phenols, Total

Analyte

Phenols, Total

Matrix: Water

Analysis Batch: 167198

Lab Sample ID: LCSD 860-167198/57

RPD

Limit

2

3

4

5

6

8

9

13

14

Client: North Texas Municipal Water District Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003 Method: 4500 CN G NonAm - Cyanide, Non-amenable Lab Sample ID: MB 860-166088/4-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 166388								Prep Batch:	166088
-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Non-amenable	<2.33	U	5.00	2.33	ug/L		06/14/24 17:07	06/14/24 20:28	1

Lab Sample ID: LCS 860-166088/5-A				Clie	nt Saı	mple ID	: Lab Contr	ol Sample
Matrix: Water							Prep Type	: Total/NA
Analysis Batch: 166388							Prep Batc	h: 166088
•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Non-amenable	100	100.1		ug/L		100	90 - 110	

Lab Sample ID: LCSD 860-166088/6-A Matrix: Water Analysis Batch: 166388	Matrix: Water Analysis Batch: 166388				ample	ID: Lat	Control Prep Ty Prep Ba	pe: Tot	al/NA
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Non-amenable	100	97.00		ug/L		97	90 - 110	3	20

Method: 7196A - Chromium, Hexavalent	
Lab Sample ID: MB 870-20665/9	Client Sample ID: Method Blank
Matrix: Water	Pron Type: Total/NA

Analysis Batch: 20665

Lab Sample ID: LCSD 870-20665/11

MB MB Analyte Result Qualifier RL Prepared MDL Unit Analyzed Cr (VI) <2.80 U 10.0 2.80 ug/L 06/12/24 18:12

Lab Sample ID: LCS 870-20665/10 Matrix: Water Analysis Batch: 20665				Clie	nt Saı	mple ID	: Lab Control Sample Prep Type: Total/NA
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits

	opino						70.100	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cr (VI)	499	506.7		ug/L		102	85 - 115	

Matrix: Water Analysis Batch: 20665			P	rep Type: Total/NA
, ,	Spike	LCSD LCSD	%	Rec RPD
Analyta	Addad	Popult Qualifier Unit	D % Boo Li	imite DDD Limit

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Cr (VI)	499	504.0		ug/L		101	85 - 115	1	20	

Lab Sample ID: 870-27737-2 MS	Client Sample ID: 2421003-03 (Effluent G)
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 20665	

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cr (VI)	8.41		499	490.5		ug/L		97	85 - 115

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Client Sample ID: Lab Control Sample Dup

Client: North Texas Municipal Water District Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 870-27737-2 MSD Client Sample ID: 2421003-03 (Effluent G) **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 20665											
_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cr (VI)	8.41		499	502.6		ug/L		99	85 - 115	2	20

Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal

Job ID: 870-27737-1 SDG: 2421003

GC/MS VOA

Analysis Batch: 20655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-2	2421003-03 (Effluent G)	Total/NA	Water	624.1	
MB 870-20655/5	Method Blank	Total/NA	Water	624.1	
LCS 870-20655/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 870-20655/4	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 165885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-1	2421003-01 (Effluent TC)	Total/NA	Water	625	
MB 860-165885/1-A	Method Blank	Total/NA	Water	625	
LCS 860-165885/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 860-165885/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 165945

Lab Sample ID 870-27737-1	Client Sample ID 2421003-01 (Effluent TC)	Prep Type Total/NA	Matrix Water	Method 625.1	Prep Batch 165885
MB 860-165885/1-A	Method Blank	Total/NA	Water	625.1	165885
LCS 860-165885/2-A	Lab Control Sample	Total/NA	Water	625.1	165885
LCSD 860-165885/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	165885

GC Semi VOA

Prep Batch: 166167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-1	2421003-01 (Effluent TC)	Total/NA	Water	608	
MB 860-166167/1-A	Method Blank	Total/NA	Water	608	
LCS 860-166167/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 860-166167/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 860-166167/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 860-166167/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 166350

Lab Sample ID 870-27737-1	Client Sample ID 2421003-01 (Effluent TC)	Prep Type Total/NA	Matrix Water	Method 608.3	Prep Batch 166167
MB 860-166167/1-A	Method Blank	Total/NA	Water	608.3	166167
LCS 860-166167/4-A	Lab Control Sample	Total/NA	Water	608.3	166167
LCSD 860-166167/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	166167

Analysis Batch: 166572

Lab Sample ID 870-27737-1	Client Sample ID 2421003-01 (Effluent TC)	Prep Type Total/NA	Matrix Water	Method 608.3	Prep Batch 166167
MB 860-166167/1-A	Method Blank	Total/NA	Water	608.3	166167
LCS 860-166167/2-A	Lab Control Sample	Total/NA	Water	608.3	166167
LCSD 860-166167/3	-A Lab Control Sample Dup	Total/NA	Water	608.3	166167

Prep Batch: 166702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-1	2421003-01 (Effluent TC)	Total/NA	Water	3511	_ <u> </u>
MB 860-166702/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-166702/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-166702/4-A	Lab Control Sample	Total/NA	Water	3511	

Eurofins Dallas

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14

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Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal

Job ID: 870-27737-1 SDG: 2421003

GC Semi VOA (Continued)

Prep Batch: 166702 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-166702/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-166702/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 167119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-1	2421003-01 (Effluent TC)	Total/NA	Water	615	166702
MB 860-166702/1-A	Method Blank	Total/NA	Water	615	166702
LCS 860-166702/2-A	Lab Control Sample	Total/NA	Water	615	166702
LCSD 860-166702/3-A	Lab Control Sample Dup	Total/NA	Water	615	166702

Analysis Batch: 167348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-166702/4-A	Lab Control Sample	Total/NA	Water	615	166702
LCSD 860-166702/5-A	Lab Control Sample Dup	Total/NA	Water	615	166702

HPLC/IC

Prep Batch: 166400

	o Sample ID 0-27737-1	Client Sample ID 2421003-01 (Effluent TC)	Prep Type Total/NA	Matrix Water	Method CWA_Prep	Prep Batch
MB	860-166400/1-A	Method Blank	Total/NA	Water	CWA_Prep	
LCS	S 860-166400/2-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCS	SD 860-166400/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 167049

Lab Sample ID 870-27737-1	Client Sample ID 2421003-01 (Effluent TC)	Prep Type Total/NA	Matrix Water	Method 632	Prep Batch 166400
MB 860-166400/1-A	Method Blank	Total/NA	Water	632	166400
LCS 860-166400/2-A	Lab Control Sample	Total/NA	Water	632	166400
LCSD 860-166400/3-A	Lab Control Sample Dup	Total/NA	Water	632	166400

Metals

Prep Batch: 166273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-2	2421003-03 (Effluent G)	Total Recoverable	Water	200.8	
MB 860-166273/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 860-166273/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 860-166273/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 860-166273/4-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 166402

Lab Sample ID 870-27737-2	Client Sample ID 2421003-03 (Effluent G)	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch 166273
MB 860-166273/1-A	Method Blank	Total Recoverable	Water	200.8	166273
LCS 860-166273/2-A	Lab Control Sample	Total Recoverable	Water	200.8	166273
LCSD 860-166273/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	166273
LLCS 860-166273/4-A	Lab Control Sample	Total Recoverable	Water	200.8	166273

Eurofins Dallas

Client: North Texas Municipal Water District
Project/Site: SBX Permit Renewal

Job ID: 870-27737-1
SDG: 2421003

General Chemistry

Analysis Batch: 20665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-2	2421003-03 (Effluent G)	Total/NA	Water	7196A	
MB 870-20665/9	Method Blank	Total/NA	Water	7196A	
LCS 870-20665/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 870-20665/11	Lab Control Sample Dup	Total/NA	Water	7196A	
870-27737-2 MS	2421003-03 (Effluent G)	Total/NA	Water	7196A	
870-27737-2 MSD	2421003-03 (Effluent G)	Total/NA	Water	7196A	

Analysis Batch: 20759

Lab Sample ID 870-27737-2	Client Sample ID 2421003-03 (Effluent G)	Prep Type Total/NA	Matrix Water	Method 1664B	Prep Batch
MB 870-20759/1	Method Blank	Total/NA	Water	1664B	
LCS 870-20759/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 870-20759/3	Lab Control Sample Dup	Total/NA	Water	1664B	

Prep Batch: 165820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-2	2421003-03 (Effluent G)	Total/NA	Water	Distill/CN	
MB 860-165820/12-A	Method Blank	Total/NA	Water	Distill/CN	
MB 860-165820/4-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 860-165820/13-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 860-165820/5-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCSD 860-165820/14-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
LLCS 860-165820/6-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 165928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-2	2421003-03 (Effluent G)	Total/NA	Water	335.4	165820
MB 860-165820/12-A	Method Blank	Total/NA	Water	335.4	165820
MB 860-165820/4-A	Method Blank	Total/NA	Water	335.4	165820
LCS 860-165820/13-A	Lab Control Sample	Total/NA	Water	335.4	165820
LCS 860-165820/5-A	Lab Control Sample	Total/NA	Water	335.4	165820
LCSD 860-165820/14-A	Lab Control Sample Dup	Total/NA	Water	335.4	165820
LLCS 860-165820/6-A	Lab Control Sample	Total/NA	Water	335.4	165820

Prep Batch: 166088

Lab Sample ID 870-27737-2	Client Sample ID 2421003-03 (Effluent G)	Prep Type Total/NA	Matrix Water	Method Distill/CN	Prep Batch
MB 860-166088/4-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 860-166088/5-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCSD 860-166088/6-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	

Analysis Batch: 166127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-2	2421003-03 (Effluent G)	Total/NA	Water	SM 4500 CN G	

Analysis Batch: 166388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch 166088
870-27737-2	2421003-03 (Effluent G)	Total/NA	Water	4500 CN G NonAm	100000
MB 860-166088/4-A	Method Blank	Total/NA	Water	4500 CN G NonAm	166088

Eurofins Dallas

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Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal

Job ID: 870-27737-1 SDG: 2421003

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General Chemistry (Continued)

Analysis Batch: 166388 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-166088/5-A	Lab Control Sample	Total/NA	Water	4500 CN G	166088
				NonAm	
LCSD 860-166088/6-A	Lab Control Sample Dup	Total/NA	Water	4500 CN G	166088
				NonAm	

4

Analysis Batch: 167182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-27737-2	2421003-03 (Effluent G)	Total/NA	Water	SM 3500 CR B	
870-27737-2	2421003-03 (Effluent G)	Total/NA	Water	SM 3500 CR B	

7

Analysis Batch: 167198

Lab Sample ID 870-27737-2	Client Sample ID 2421003-03 (Effluent G)	Prep Type Total/NA	Matrix Water	Method 420.4	Prep Batch
MB 860-167198/55	Method Blank	Total/NA	Water	420.4	
LCS 860-167198/56	Lab Control Sample	Total/NA	Water	420.4	
LCSD 860-167198/57	Lab Control Sample Dup	Total/NA	Water	420.4	

10

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12

13 14

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Lab Chronicle

Client: North Texas Municipal Water District

Project/Site: SBX Permit Renewal SDG: 2421003 Lab Sample ID: 870-27737-1

Client Sample ID: 2421003-01 (Effluent TC)

Date Collected: 06/12/24 08:55 Date Received: 06/12/24 16:15

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab 1000 mL EET HOU Total/NA Prep 625 1.00 mL 165885 06/14/24 05:30 DR Total/NA 625.1 Analysis 1 1 mL 1 mL 165945 06/14/24 19:07 T1S **EET HOU** Total/NA Prep 608 1000 mL 1 mL 166167 06/15/24 07:58 BH **EET HOU** Total/NA Analysis 608.3 1 166350 06/17/24 13:50 WP **EET HOU** 608 1000 mL Total/NA Prep 1 mL 166167 06/15/24 07:58 BH **EET HOU** Total/NA Analysis 608.3 1 166572 06/18/24 13:58 A1S **EET HOU**

Client Sample ID: 2421003-03 (Effluent G)

3511

615

632

CWA Prep

Prep

Prep

Analysis

Analysis

Total/NA

Total/NA

Total/NA

Total/NA

Lab Sample ID: 870-27737-2 Date Collected: 06/12/24 08:55 **Matrix: Water** Date Received: 06/12/24 16:15

50 mL

1000 mL

1

1

166702

167119

166400

167049

06/18/24 13:50 BH

06/21/24 00:25 WP

06/17/24 14:00 DR

06/20/24 05:17 YG

4 mL

1 mL

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	20655	06/12/24 19:53	MC	EET DAL
Total Recoverable	Prep	200.8			50 mL	50 mL	166273	06/17/24 08:00	MD	EET HOU
Total Recoverable	Analysis	200.8		1			166402	06/17/24 13:39	DP	EET HOU
Total/NA	Analysis	1664B		1	901 mL	1000 mL	20759	06/18/24 10:05	KNW	EET DAL
Total/NA	Prep	Distill/CN			6 mL	6 mL	165820	06/13/24 16:57	MLEI	EET HOU
Total/NA	Analysis	335.4		1			165928	06/13/24 19:25	LD	EET HOU
Total/NA	Analysis	420.4		1	10 mL	10 mL	167198	06/19/24 21:12	SC	EET HOU
Total/NA	Prep	Distill/CN			6 mL	6 mL	166088	06/14/24 17:07	LD	EET HOU
Total/NA	Analysis	4500 CN G NonAm		1			166388	06/14/24 20:45	LD	EET HOU
Total/NA	Analysis	7196A		1	10 mL	10 mL	20665	06/12/24 18:12	KNW	EET DAL
Total/NA	Analysis	SM 3500 CR B		1			167182	06/24/24 22:15	JDM	EET HOU
Total/NA	Analysis	SM 3500 CR B		1			167182	06/24/24 22:15	JDM	EET HOU
Total/NA	Analysis	SM 4500 CN G		1			166127	06/18/24 18:21	MC	EET HOU

Laboratory References:

Ana-Lab Co = Ana-Lab Corporation, 2600 Dudley Rd, Kilgore, TX 75662

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Job ID: 870-27737-1

Matrix: Water

EET HOU

EET HOU

EET HOU

EET HOU

3

2

4

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Accreditation/Certification Summary

Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Laboratory: Eurofins Dallas

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progran	า	Identification Number	Expiration Date	
exas	NELAP		T104704295-23-34	06-30-24	
The following analytes	are included in this report	but the laboratory is n	ot certified by the governing authori	ty. This list may include analytes	
for which the agency	loes not offer certification.	•	, , ,	y. This list may include analytes	
for which the agency of Analysis Method	• •	Matrix	Analyte	y. This list may include analytes	
for which the agency	loes not offer certification.	•	, , ,	y. This list may include analytes	
for which the agency of Analysis Method	loes not offer certification.	Matrix	Analyte		

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date	
Texas	NELAP	T104704215	06-30-24	

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte		
420.4		Water	Phenols, Total		
4500 CN G NonAm	Distill/CN	Water	Cyanide, Non-amenable		
608.3	608	Water	Dicofol		
608.3	608	Water	Mirex		
608.3	608	Water	Polychlorinated biphenyls, Total		
615	3511	Water	Hexachlorophene		
615	3511	Water	Pentachlorophenol		
625.1	625	Water	3 & 4 Methylphenol		
625.1	625	Water	4-Nonylphenol		
625.1	625	Water	Azobenzene		
625.1	625	Water	Total Cresols		
632	CWA_Prep	Water	Diuron		
SM 3500 CR B		Water	Cr (III)		

Eurofins Dallas

7/25/2024

Page 38 of 52

Method Summary

Client: North Texas Municipal Water District

Job ID: 870-27737-1 Project/Site: SBX Permit Renewal SDG: 2421003

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET DAL
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET HOU
608.3	Organochlorine Pesticides in Water	EPA	EET HOU
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET HOU
615	Herbicides (GC)	EPA-01	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
200.8	Metals (ICP/MS)	EPA	EET HOU
1664B	HEM and SGT-HEM	1664B	EET DAL
335.4	Cyanide, Total	EPA	EET HOU
420.4	Phenolics, Total Recoverable	EPA	EET HOU
4500 CN G NonAm	Cyanide, Non-amenable	SM	EET HOU
7196A	Chromium, Hexavalent	SW846	EET DAL
SM 3500 CR B	Chromium, Trivalent	SM	EET HOU
SM 4500 CN G	Cyanide, Amenable	SM	EET HOU
614	EPA 614 - Organophosphorus Pesticides	EPA	Ana-Lab Co
200.8	Preparation, Total Recoverable Metals	EPA	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
625	Liquid-Liquid Extraction	EPA	EET HOU
CWA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
Distill/CN	Distillation, Cyanide	None	EET HOU

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Ana-Lab Co = Ana-Lab Corporation, 2600 Dudley Rd, Kilgore, TX 75662

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: North Texas Municipal Water District Project/Site: SBX Permit Renewal

Job ID: 870-27737-1 Sr G:8c4cVMMp

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
870-27737-1	2421003-01 (Effluent TC)	Water	06/12/24 08:55	06/12/24 16:15
870-27737-2	2421003-03 (Effluent G)	Water	06/12/24 08:55	06/12/24 16:15

3

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The Science of Sure

Page 1 of 1

Project 1106902

Printed

06/21/2024 17:02

XNKS-N

Eurofins Xenco John Builes 9701 Harry Hines Blvd Dallas, TX 75220

TABLE OF CONTENTS

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1106902_r03_03_ProjectResults	SPL Kilgore Project P:1106902 C:XNKS Project Results t:304 PO: US1312966443	2
1106902_r10_05_ProjectQC	SPL Kilgore Project P:1106902 C:XNKS Project Quality Control Groups	2
1106902_r99_09_CoC1_of_1	SPL Kilgore CoC XNKS 1106902_1_of_1	3
	Total Pages:	8

Email: Kilgore.ProjectManagement@spllabs.com



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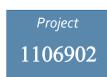
16



SAMPLE CROSS REFERENCE

Eurofins Xenco John Builes

9701 Harry Hines Blvd Dallas, TX 75220



Page 1 of 1

Received

06/13/2024

Printed

6/21/2024

Sample Sample ID 2307581

Bottle 01 Client Supplied Amber Glass Bottle 02 Client Supplied Amber Glass

2421003-01 EFF

Method

EPA 614

06/12/2024

Bottle

03

Taken

Bottle 03 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1124222) Volume: 1.00000 mL <== Derived from 02 (1019 ml)

Time

08:55:00

PrepSet

1124222

Preparation 06/16/2024

QcGroup 1124933

Analytical 06/20/2024

Email: Kilgore.ProjectManagement@spllabs.com

Report Page 2 of 9

Page 1 of 2

Project

1106902

06/21/2024

Printed:

XNKS-N

Eurofins Xenco John Builes 9701 Harry Hines Blvd Dallas, TX 75220

					Sample	Res	ults					
	2307581	2421003-01 EFF		870	0-27737-1					Received:	06/13	/2024
No	on-Potable Wate	er	Collecto Taken:	ed by: Client 06/12/2024	Eurofins	Xenc 08:55:			PC	:	US13129	66443
EF	PA 614			Prepared:	1124222	06/1	6/2024	16:30:00	Analyzed 11249.	33 06/20/2024	00:40:00	KA
-	Parameter			Results	Uı	its	RL		Flags	CAS		Bottle
AC	Azinphos-met	thyl (Guthion)		<0.0491	ug	'L	0.0491			86-50-0		03
	Chlorpyrifos			<0.0491	ug	L	0.0491			2921-88-2		03
AC	Demeton			<0.0491	ug	L	0.0491			8065-48-3		03
AC	Diazinon			<0.0491	ug	L	0.0491			333-41-5		03
4 <i>C</i>	Malathion			0.284	ug		0.0491			121-75-5		03
AC	Parathion, eth	-		<0.0491	ug		0.0491			56-38-2		03
AC	Parathion, me	thyl		<0.0491	ug	L	0.0491			298-00-0		03
				S	Sample Pr	ера	ration					
	2307581	2421003-01 EFF		870	0-27737-1					Received:	06/13	/2024
											US13129	66443
				06/12/2024							001012	

	Prepared:	12/31/18	99 11:13:37	Calculated			11:13:37	CAL
Environmental Fee (per Project)	Verified							
EPA 608.3	Prepared: 1	1124222 06/16/20	24 16:30:00	Analyzed	1124222	06/16/2024	16:30:00	МСС
Solvent Extraction	1/1019	ml						02
EPA 614	Prepared: 1	1124222 06/16/20	24 16:30:00	Analyzed	1124933	06/20/2024	00:40:00	KAP



Report Page 3 of 9



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Project

1106902

XNKS-N

Eurofins Xenco John Builes 9701 Harry Hines Blvd Dallas, TX 75220

2421003-01 EFF

Printed:

06/21/2024

06/13/2024 Received:

US1312966443 06/12/2024 EPA 614 Prepared: 1124222 06/16/2024 16:30:00 Analyzed 1124933 06/20/2024 00:40:00 KAP Permit Renewal Phos. Pesticides Entered 03

870-27737-1

Qualifiers:

2307581

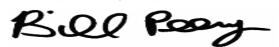
We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.

 $RL\ is\ the\ Reporting\ Limit\ (sample\ specific\ quantitation\ limit)\ and\ is\ at\ or\ above\ the\ Method\ Detection\ Limit\ (MDL).\ CAS\ is\ Chemical\ AS\ is\ Chemical\$ Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the $number in the RL column. \ MAL is Minimum\ Analytical\ Level and is typically from regulatory agencies. Unless we report\ a result in the$ result column, or interferences prevent it, we work to have our RL at or below the MAL.



Bill Peery, MS, VP Technical Services



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QUALITY CONTROL



Page 1 of 2

Project 1106902

Printed 06/21/2024

XNKS-N

Eurofins Xenco John Builes 9701 Harry Hines Blvd Dallas, TX 75220

								Timed	00/21/202		
Analytical Set	1124933										EPA 614
				E	Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units			File			
Azinphos-methyl (Guthion)	1124222	ND	41.4	50.0	ug/L			126470703			
Chlorpyrifos	1124222	ND	22.6	50.0	ug/L			126470703			
Demeton	1124222	ND	31.9	50.0	ug/L			126470703			
Diazinon	1124222	ND	19.7	50.0	ug/L			126470703			
Malathion	1124222	ND	24.8	50.0	ug/L			126470703			
Parathion, ethyl	1124222	ND	23.9	50.0	ug/L			126470703			
Parathion, methyl	1124222	ND	27.4	50.0	ug/L			126470703			
					CCV						
Parameter		Reading	Known	Units	Recover%	Limits%		File			
Azinphos-methyl (Guthion)		1060	1000	ug/L	106	37.5 - 164		126470701			
Azinphos-methyl (Guthion)		1040	1000	ug/L	104	37.5 - 164		126470702			
Azinphos-methyl (Guthion)		980	1000	ug/L	98.0	37.5 - 164		126470710			
Chlorpyrifos		1040	1000	ug/L	104	45.4 - 176		126470701			
Chlorpyrifos		1120	1000	ug/L	112	45.4 - 176		126470702			
Chlorpyrifos		1220	1000	ug/L	122	45.4 - 176		126470710			
Demeton		1020	1000	ug/L	102	58.6 - 150		126470701			
Demeton		1130	1000	ug/L	113	58.6 - 150		126470702			
Demeton		1160	1000	ug/L	116	58.6 - 150		126470710			
Diazinon		1030	1000	ug/L	103	65.4 - 138		126470701			
Diazinon		1130	1000	ug/L	113	65.4 - 138		126470702			
Diazinon		1310	1000	ug/L	131	65.4 - 138		126470710			
Malathion		1040	1000	ug/L	104	49.5 - 160		126470701			
Malathion		1170	1000	ug/L	117	49.5 - 160		126470702			
Malathion		1120	1000	ug/L	112	49.5 - 160		126470710			
Parathion, ethyl		1030	1000	ug/L	103	56.0 - 142		126470701			
Parathion, ethyl		1080	1000	ug/L	108	56.0 - 142		126470702			
Parathion, ethyl		956	1000	ug/L	95.6	56.0 - 142		126470710			
Parathion, methyl		1050	1000	ug/L	105	12.6 - 194		126470701			
Parathion, methyl		1140	1000	ug/L	114	12.6 - 194		126470702			
Parathion, methyl		1070	1000	ug/L	107	12.6 - 194		126470710			
				LC	S Dup						
<u>Parameter</u>	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1124222	609	627		1000	0.100 - 155	60.9	62.7	ug/L	2.91	30.0
Chlorpyrifos	1124222	705	666		1000	3.37 - 129	70.5	66.6	ug/L	5.69	30.0
Demeton	1124222	571	554		1000	0.100 - 109	57.1	55.4	ug/L	3.02	30.0
Diazinon	1124222	544	523		1000	0.100 - 125	54.4	52.3	ug/L	3.94	30.0
Malathion	1124222	667	634		1000	0.100 - 130	66.7	63.4	ug/L	5.07	30.0
Parathion, ethyl	1124222	733	688		1000	0.100 - 122	73.3	68.8	ug/L	6.33	30.0
Parathion, methyl	1124222	367	336		1000	0.100 - 131	36.7	33.6	ug/L	8.82	30.0
				Sui	rogate						

Email: Kilgore.ProjectManagement@spllabs.com

Sample

Type



Units

Recover% Limits%

File

Report Page 5 of 9

Reading Known

Parameter

3

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QUALITY CONTROL



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Project 1106902

Printed 06/21/2024

XNKS-N

Eurofins Xenco John Builes 9701 Harry Hines Blvd Dallas, TX 75220

Surrogate

<u>Parameter</u>	Sample	Туре	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1030	2000	ug/L	51.5	0.100 - 106	126470701
Tributylphosphate		CCV	1110	2000	ug/L	55.5	0.100 - 106	126470702
Tributylphosphate		CCV	1180	2000	ug/L	59.0	0.100 - 106	126470710
Triphenylphosphate		CCV	1030	2000	ug/L	51.5	0.100 - 172	126470701
Triphenylphosphate		CCV	1190	2000	ug/L	59.5	0.100 - 172	126470702
Triphenylphosphate		CCV	1270	2000	ug/L	63.5	0.100 - 172	126470710
Tributylphosphate	1124222	Blank	537	2000	ug/L	26.8	0.100 - 106	126470703
Tributylphosphate	1124222	LCS	723	2000	ug/L	36.2	0.100 - 106	126470704
Tributylphosphate	1124222	LCS Dup	693	2000	ug/L	34.6	0.100 - 106	126470705
Triphenylphosphate	1124222	Blank	547	2000	ug/L	27.4	0.100 - 172	126470703
Triphenylphosphate	1124222	LCS	708	2000	ug/L	35.4	0.100 - 172	126470704
Triphenylphosphate	1124222	LCS Dup	690	2000	ug/L	34.5	0.100 - 172	126470705
Tributylphosphate	2307581	Unknown	643	2000	ug/L	32.2	0.100 - 106	126470709
Triphenylphosphate	2307581	Unknown	431	2000	ug/L	21.6	0.100 - 172	126470709

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100%

Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.)

 $Email: Kilgore. Project {\bf Management@spllabs.com}$



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1106902 CoC Print Group 001 of 001

Eurofins Dallas																						
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Note: Since laboratory accreditations are subject to change, laboratory does not currently maintain accreditation in the Su	Euroans Emmonment Testing South Contra	LLC places	he persentative	of method sou											_							
laboratory does not currently maintain accreditation in the Su accreditation status should be brought to Eurofina Environment	ste of Origin Issed above for enalysis/susts/	matrix being ar	alyzed the se	mplas must be	shipp	Mod bac	a to the	Curofi	na Ern	A COMMON	r subççe est Taste	na Sout	h Centr	es Th	is sam	ipie phi mineran	prient	in forest	ded under	chunn of a	nHody If t	
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2 of 3

1106902 CoC Print Group 001 of 001

ICOC No: 870-6401

Containers

Count 2

<u>Container Type</u> Amber Glass 1 liter - unpreserved

<u>Preservative</u> None

00000111100	C MICHICA III & CIAC	,u0113	
Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB (General Subcontract Method)/	
		EDV 814	The state of the s

7/25/2024



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7/25/2024

Eurofins Eaton Analytical South Bend

110 S. Hill Street Southbend, IN 46617 **Chain of Custody Record** 7/25/2024

Client Information Client Contact: Kelly Harden Company: North Texas Municipal Water District Address: 201 East Brown City: Texas 75098 Texas 75098 Phone: 469-626-4610 Entail: Kharden@ntmwd.com Project Name: SBX Permit Renewal Site:	Sampler: Phone: 469-626-4610 Due Date Requested: Compliance Project: A Yes PO #: Project #: SSOW#:	PWSID:	G Sample (Yes or No) SAMSD (Yes or No) A 625.1 BY EPA 608.3 A 615	A 1657 A 632 625.1 R 627	2 420.1 GKing No. (8)	Page: Page 1 of 1 Job #: Page 1 of 1 Job #: Page 1 of 1 Page 1 of
Sample Identification	Sample Date Time	Sample Matrix Type (w=water, (C=comp, O=watefoil, G=grab) BT=Tissue, A=Atr)	Perform: MS/A BNA by EPA 62 Pest/PCB by E Herb by EPA 6	Dioxins by 613 Pest by EPA 16 Pest by EPA 63 Dioxins by 625 Cr, Cr (III), Cr (Cn, Cn-A Phenols by 420 VOC by EPA 6	Total Numbe Special Instructions/Note:
2421003- 01 Effluent TC	00	Preserva C		- - -		1 4
2421003- 03 Effluent G	5590 herella		Z		8 S - S	7
Possible Hazard Identification X Non-Hazard Flammable Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)	Poison B Unknown	Radiological	Sample Disposal Return To C Special Instruction	(A fee lient s/QC R	may be assessed if samples au X Disposal By Lab equirements:	are retained longer than 1 month) Archive For Month
Empt) Kit Relinquished by:	Date:		Time:		Method of Shipment:	
	12/24 1-2-2	Company Company	2 3 3	Hara	Date/Time: Date/Time:	41 HZ-2
Custody Seals Intact: Custody Seal No.:	uate/Time:	Company	Cooler Temperatu	ure(s) °C and Other Remarks:	bb	IT THM

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Login Sample Receipt Checklist

Client: North Texas Municipal Water District

Job Number: 870-27737-1

SDG Number: 2421003

Login Number: 27737 List Source: Eurofins Dallas

List Number: 1 Creator: Dabinett, lan

Containers requiring zero headspace have no headspace or bubble is

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

N/A

4

5

9

11

12

14

15

16

<6mm (1/4").

Login Sample Receipt Checklist

Client: North Texas Municipal Water District

Containers requiring zero headspace have no headspace or bubble is

Job Number: 870-27737-1 SDG Number: 2421003

Login Number: 27737 **List Source: Eurofins Houston** List Number: 2 List Creation: 06/13/24 09:40 AM

Creator: Baker, Jeremiah

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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.	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	

True

6

<6mm (1/4").

ATTACHMENT TR-7 JUSTIFICATION OF NEED

Justification of Permit Need:

The North Texas Municipal Water District (NTMWD) owns and operates Sabine Creek Wastewater Treatment Plant (WWTP) which currently serves the City of Fate and Royse City. The plant was originally constructed in 2006 with 1.5 MGD annual average daily flow (AADF) capacity, and subsequently expanded to 3 M D AADF in 2019, and then construction to expand to 7 M D AADF began in 2024. The Sabine Creek WWTP is currently permitted for Final Phase of 7.0 MGD and based on the flow pro ections of the cities of Fate and Royse City, the Sabine Creek WWTP will require expansion beyond its permitted capacity of 7.0 MGD.

The cities of Fate and Royse City are experiencing rapid population growth. Royse City and the City of Fate are expected to reach build-out populations by the years 2050 and 2035, respectively. The population pro ections for the City of Fate and Royse City, based on data provided by each city, are listed below in Table 1 and Table 2. Connected Population includes the population connected to the wastewater systems, excluding the population utilizing on-site septic facilities.

Year	Royse City Total Population	Royse City-Connected Population
2020	16,781	14,161
2025	28,972	26,352
2030	37,575	34,995
2035	60,620	58,000
2040	83,664	81,044
2050	129,753	127,133

Table 1: Royse City Population Pro ections

Table 2: City of Fate Population Pro ections

Year	City of Fate Total Population	City of Fate-Connected Population
2020	16,105	12,605
2025	25,937	22,437
2030	41,772	38,272
2035	52,542	52,542
2040	52,542	52,542
2050	52,542	52,542

Wastewater flow pro ections using the population pro ections indicated above were developed through the year 2050 for the City of Fate and Royse City and are reproduced in Table 3.

Table 3: Flow pro ections (M D) for the City of Fate and Royse City

City	2024	2025	2030	2035	2040	2050
City of Fate	1.65	1.91	3.25	4.47	4.47	4.47
Royse City	1.40	1.71	3.15	5.22	7.29	11.44
Total	3.05	3.62	6.40	9.69	11.76	15.91

The Texas Pollution Discharge Elimination System (TPDES) permits require compliance with 30 TAC

§305.126 (75/90 rule). This rule requires that permit holders initiate engineering and financial planning for expansion of facilities when flow measurements reach 75% of the permitted average flow for three consecutive months and when flow measurements reach 90% of the permitted average flow for three consecutive months the permit holder obtain authorization from the TCE to commence construction of improvements and expansion. Based on the wastewater flow pro ections indicated in Table 3, a timeline is developed in Table 4 indicating the plant's current, permitted and proposed expansion capacity and the year when the flows will reach 0 of the plant's capacity. Based on the timeline in Table 4, the Sabine Creek WWTP will require expansion beyond its current and permitted capacity of 7.0 M D AADF.

Table 4: Plant Capacity vs ear of pro ected flow at 0 Capacity

Expansion MGD	Year at Which Flow Reaches 75% Capacity	Year at Which Flow Reaches 90% Capacity
7 (Existing Plant Capacity)	2028	2030
11 (Current Proposed Plant Expansion Capacity)	2033	2036
20 (Current Proposed Plant Expansion Capacity)	2047	N/A

Soon, NTMWD will need to obtain a permit beyond 7.0 M D to meet the permit horizon to accomplish planning, approval, funding, design, and construction by 2028-2030.

The current permit contains the following phases:

Interim I Phase	3.0 MGD
Interim II Phase	5.0 MGD
Final Phase	7.0 MGD

The WWTP is currently operating in the 3.0 M D Phase and NTMWD is constructing the 5.0 and 7.0 M D expansion simultaneously because of the urgent need for the 7.0 M D Phase. The construction of the 7.0 M D Phase is expected to be completed and operational by November 2025. According to population pro ections, planning for the 11 M D Phase should occur in 2028 and the request for authorization to commence construction in 2030. Therefore, the attached application request to amend the permit to:

Interim I Phase	7.0 MGD
Interim II Phase	11.0 MGD
Final Phase	20.0 MGD

By the time the amended permit for 20.0 M D is issued, the construction for 7.0 M D is expected to be completed and the WWTP is expected to be operating on the 7.0 M D Phase.

ATTACHMENT TR-8 MUNICIPALLY INCORPORATED AREAS, UTILITY CCNs, and NEARBY WWTPs or COLLECTION SYSTEMS

Sabine Creek Wastewater Treatment Plant Municipally Incorporated and Utility CCN Areas

The North Texas Municipal Water District (NTMWD) is a conservation and reclamation district and political subdivision of the State of Texas, authorized to acquire, treat, and distribute potable water, and to collect, treat and dispose of wastes, both liquid and solid, in order to reduce pollution, conserve and develop the natural resources of Texas. The NTMWD acts as a regional wholesaler of water, wastewater treatment, and solid waste services to its Member Cities and Customers.

As a result, the NTMWD provides wastewater treatment services to over 1.4 million people located in 24 communities throughout the Dallas metropolitan area. Collin County, which contains some of the fastest-growing communities in the nation, is located in NTMWD's northern service area. To provide regional wastewater service, NTMWD's Sabine Creek Wastewater Treatment Plant (WWTP) accepts wastewater flow from Royse City (Member City of NTMWD) and Fate (Customer City of NTMWD), who provide retail wastewater service within their boundaries, resulting in NTMWD currently providing wholesale wastewater service to more than 26,000 people. This provision of regional wastewater service is accomplished through a regional wastewater service contract between the Cities of Royse City and Fate. Therefore, NTMWD's current and proposed service area for the Sabine Creek WWTP are the municipally incorporated areas, ETJ, and CCNs held by these cities.

NTMWD currently owns and operates the Sabine Creek WWTP that treats wastewater received from these cities.

Domestic Technical Report 1.1, Section 1.B(1-2) requires:

- 1. Documentation of consent from the Cities to provide service
- 2. A cost analysis of expenditures that includes the cost of connecting to the cities versus the cost of the proposed facility.

However, such documentation and analysis is not necessary in this instance because the Cities of Royse City and Fate are Member and Customer Cities of NTMWD, and are part of the Sabine Creek Wastewater Collection and Treatment System pursuant to regional wastewater service contract.

Sabine Creek Wastewater Treatment Plant Nearby WWTPs or Collection Systems

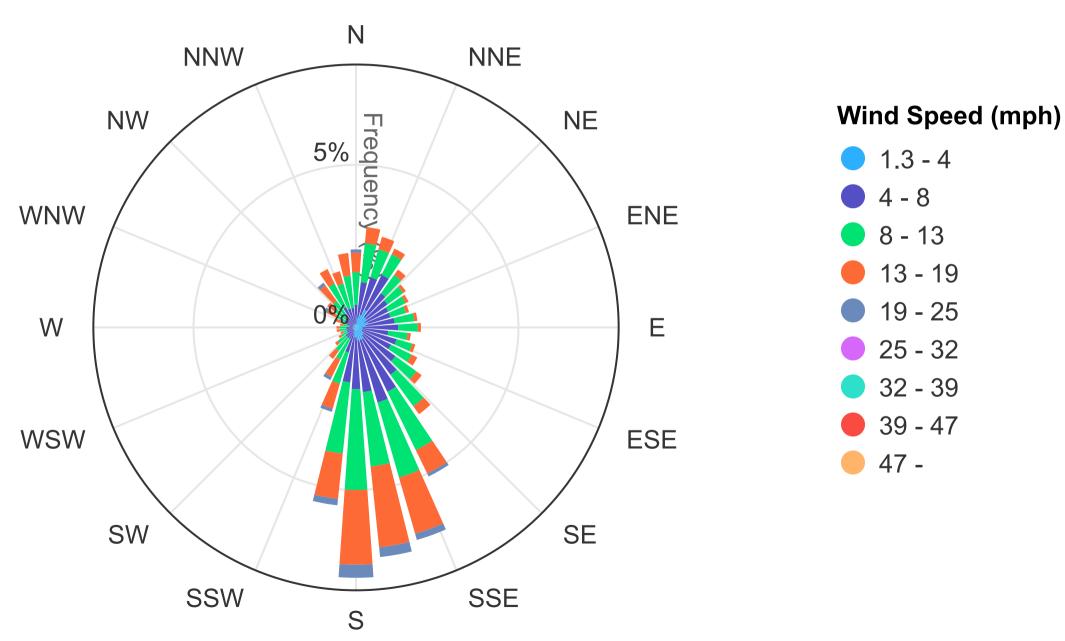
There are no permitted WWTPs within a 3-mile radius of the Sabine Creek WWTP. The Cities of Royse City (CN600656524) and Fate (CN600754485) wastewater collection systems are within a three-mile radius of the Sabine Creek WWTP.

Providing correspondence to/from these cities is not applicable to evaluate the potential for regionalization of domestic wastewater treatment facilities because the Cities of Royse City and Fate are Member and Customer Cities of NTMWD and are part of the Sabine Creek Wastewater Collection and Treatment System pursuant to regional wastewater service contract. The wastewater collection system of these cities are a component of the Sabine Creek Wastewater Collection and Treatment System.

ATTACHMENT TR-9 WIND ROSE

TERRELL MUNICIPAL AP (TX) Wind Rose

August 29, 2019 - August 29, 2024 Sub-Interval: January 1 - December 31, 0 - 24



ATTACHMENT TR-10 WORKSHEET 2.0 RECEIVING WATERS

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

• • • • • • • • • • • • • • • • • • • •
Section 1. Domestic Drinking Water Supply (Instructions Page 64)
Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?
□ Yes ⊠ No
If no , proceed it Section 2. If yes , provide the following:
Owner of the drinking water supply: $\underline{N/A}$
Distance and direction to the intake: N/A
Attach a USGS map that identifies the location of the intake.
Attachment: <u>N/A</u>
Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)
Does the facility discharge into tidally affected waters?
□ Yes ⊠ No
If no , proceed to Section 3. If yes , complete the remainder of this section. If no, proceed to Section 3.
A. Receiving water outfall
Width of the receiving water at the outfall, in feet: $\underline{N/A}$
B. Oyster waters
Are there oyster waters in the vicinity of the discharge?
□ Yes □ No
If yes, provide the distance and direction from outfall(s).
N/A
C. Sea grasses
Are there any sea grasses within the vicinity of the point of discharge?
□ Yes □ No
If yes, provide the distance and direction from the outfall(s).
N/A

Section 3. **Classified Segments (Instructions Page 64)** Is the discharge directly into (or within 300 feet of) a classified segment? Yes ⊠ No If yes, this Worksheet is complete. **If no**, complete Sections 4 and 5 of this Worksheet. Section 4. **Description of Immediate Receiving Waters (Instructions Page 65)** Name of the immediate receiving waters: Parker Creek A. Receiving water type Identify the appropriate description of the receiving waters. \boxtimes Stream Freshwater Swamp or Marsh Lake or Pond Surface area, in acres: N/A Average depth of the entire water body, in feet: N/A Average depth of water body within a 500-foot radius of discharge point, in feet: Man-made Channel or Ditch Open Bay Tidal Stream, Bayou, or Marsh Other, specify: N/A **B.** Flow characteristics If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area upstream of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one). Intermittent - dry for at least one week during most years Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses Perennial - normally flowing Check the method used to characterize the area upstream (or downstream for new dischargers). USGS flow records Historical observation by adjacent landowners \boxtimes Personal observation Other, specify: N/A

		e names of all perennial stre tream of the discharge poin		n the receiving water within three miles
	South	Fork Sabine River		
D.	Downs	stream characteristics		
		receiving water characteris rge (e.g., natural or man-ma	_	ithin three miles downstream of the ds, reservoirs, etc.)?
		Yes □ No		
	If yes,	discuss how.		
		ximately 0.8 miles downstrear e Creek converge to form South		ine Creek WWTP outfall, Parker Creek and River
E.	Provide The ba	anks are nearly vertical with ve abundance of vegetation includ	e water body ry little slope a ling, trees, shru	during normal dry weather conditions. t the WWTP outfall. The banks are covered abs, and grasses. Approximately 250 ecomes dry with 2 pools observed.
	Date a	nd time of observation: <u>9/5/</u>	<u> 2023 @ 9:24 A</u>	<u>AM</u>
	Was th	e water body influenced by	stormwater r	unoff during observations?
		Yes 🗵 No		
Se	ection	5. General Characte Page 66)	eristics of	the Waterbody (Instructions
A.	Upstre	am influences		
		mmediate receiving water unced by any of the following		ne discharge or proposed discharge site at apply.
		Oil field activities	\boxtimes	Urban runoff
		Upstream discharges		Agricultural runoff
		Septic tanks		Other(s), specify: N/A

C. Downstream perennial confluences

Observed or evidences of the following uses. Check all that apply. Livestock watering Contact recreation Irrigation withdrawal Non-contact recreation Fishing **Navigation** Domestic water supply Industrial water supply Park activities Other(s), specify: N/A C. Waterbody aesthetics Check one of the following that best describes the aesthetics of the receiving water and the surrounding area. Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored Common Setting: not offensive; developed but uncluttered; water may be colored

Offensive: stream does not enhance aesthetics; cluttered; highly developed;

B. Waterbody uses

or turbid

dumping areas; water discolored

ATTACHMENT TR-11 WORKSHEET 2.1 STREAM PHYSICAL CHARACTERISTICS

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 66)

Date of study: 2/27/2020 Time of study: 09:00 AM Stream name: Parker Creek Location: Sabine Creek WWTP, located at 1513 Crenshaw Road, which is at the southernmost corner of Crenshaw Road, 1 1/4 miles southeast of the intersection of Crenshaw Road and Farm-to-Market 548, near the confluence of Parker Creek and Sabine Creek in Rockwall County. Type of stream upstream of existing discharge or downstream of proposed discharge (check one). Perennial Intermittent with perennial pools Section 2. Data Collection (Instructions Page 66) Number of stream bends that are well defined: 1 Number of stream bends that are moderately defined: 1 Number of stream bends that are poorly defined: 6 Number of riffles: o Evidence of flow fluctuations (check one): Minor moderate severe Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification. There was evidence of moderate flow fluctuations during rain events based on suspended plant and trash debris. Creek banks were steep. Creek bed consisted of gravel and sand from To-T3 and soft clay between T4-T5. Several tires and leaf litter were observed along the creek bottom. Channel obstruction overserved between T2 -T3 and T4-T5 consisting of tree branches and trash. Minnows and turtles were observed throughout the creek. Cattle grazing observed on properties surrounding creek.

Stream transects

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

Table 2.1(1) - Stream Transect Records

Stream type at transect	Transect location	Water surface	Stream depths (ft) at 4 to 10 points along each
Select riffle, run, glide, or pool. See Instructions, Definitions section.		width (ft)	transect from the channel bed to the water surface. Separate the measurements with commas.
Glide	32.917327, -96.317545	7	0.75, 0.75, 0.8, 0.9, 0.9
Glide	32.917622, -96.316111	16	2.2, 2.3, 2.1, 2.1, 1.7
Glide	32.917884, -96.314609	16	1.2, 1.5, 1.25, 1.4, 1.3
Run	32.917493, -96.313357	15	2.4, 2.8, 3.0, 2.4, 2.5
Run	32.917153, -96.311922	18	3.4, 3.0, 2.2, 1.5, 1.2
Run	32.916275, -96.311743	21	1.9, 2.2, 2.0, 1.5, 1.5

Section 3. **Summarize Measurements (Instructions Page 66)**

Streambed slope of entire reach, from USGS map in feet/feet: 0.0008

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): 13

Length of stream evaluated, in feet: 2640

Number of lateral transects made: 6 Average stream width, in feet: 15.5 Average stream depth, in feet: 1.82

Average stream velocity, in feet/second: <u>0.131</u>

Instantaneous stream flow, in cubic feet/second: 4.662

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance,

etc.): FlowTracker2 (Doppler)

Size of pools (large, small, moderate, none): N/A

Maximum pool depth, in feet: N/A

ATTACHMENT TR-12 WORKSHEET 4.0 POLLUTANT ANALYSES REQUIREMENTS

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ⊠ Composite ⊠

Date and time sample(s) collected: 06/12/2024 08:55 (Grab); 06/11/2024 08:55 to 06/12/2024 08:55 (Composite)

Table 4.0(1) - Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Acrylonitrile	N/A	<50	1	50
Aldrin	N/A	<0.01	1	0.01
Aluminum	N/A	35.4	1	2.5
Anthracene	N/A	<10	1	10
Antimony	N/A	<5	1	5
Arsenic	N/A	1.65	1	0.5
Barium	N/A	44.4	1	3
Benzene	N/A	<10	1	10
Benzidine	N/A	<50	1	50
Benzo(a)anthracene	N/A	<5	1	5
Benzo(a)pyrene	N/A	<5	1	5
Bis(2-chloroethyl)ether	N/A	<10	1	10
Bis(2-ethylhexyl)phthalate	N/A	<10	1	10
Bromodichloromethane	N/A	<10	1	10
Bromoform	N/A	<10	1	10
Cadmium	N/A	<1	1	1
Carbon Tetrachloride	N/A	<2	1	2
Carbaryl	N/A	<5	1	5
Chlordane*	N/A	<0.2	1	0.2
Chlorobenzene	N/A	<10	1	10
Chlorodibromomethane	N/A	<10	1	10

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Chloroform	N/A	<10	1	10
Chlorpyrifos	N/A	<0.05	1	0.05
Chromium (Total)	N/A	<3	1	3
Chromium (Tri) (*1)	N/A	<2	1	N/A
Chromium (Hex)	N/A	8.41	1	3
Copper	N/A	<2	1	2
Chrysene	N/A	<5	1	5
p-Chloro-m-Cresol	N/A	<10	1	10
4,6-Dinitro-o-Cresol	N/A	<50	1	50
p-Cresol	N/A	<10	1	10
Cyanide (*2)	N/A	<10	1	10
4,4'- DDD	N/A	<0.1	1	0.1
4,4'- DDE	N/A	<0.1	1	0.1
4,4'- DDT	N/A	<0.02	1	0.02
2,4-D	N/A	<0.7	1	0.7
Demeton (O and S)	N/A	<0.2	1	0.20
Diazinon	N/A	<0.1	1	0.5/0.1
1,2-Dibromoethane	N/A	<10	1	10
m-Dichlorobenzene	N/A	<10	1	10
o-Dichlorobenzene	N/A	<10	1	10
p-Dichlorobenzene	N/A	<10	1	10
3,3'-Dichlorobenzidine	N/A	<5	1	5
1,2-Dichloroethane	N/A	<10	1	10
1,1-Dichloroethylene	N/A	<10	1	10
Dichloromethane	N/A	<20	1	20
1,2-Dichloropropane	N/A	<10	1	10
1,3-Dichloropropene	N/A	<10	1	10
Dicofol	N/A	<1	1	1
Dieldrin	N/A	<0.02	1	0.02
2,4-Dimethylphenol	N/A	<10	1	10
Di-n-Butyl Phthalate	N/A	<10	1	10
Diuron	N/A	<0.09	1	0.09
Endosulfan I (alpha)	N/A	<0.01	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Endosulfan II (beta)	N/A	<0.02	1	0.02
Endosulfan Sulfate	N/A	<0.1	1	0.1
Endrin	N/A	<0.02	1	0.02
Ethylbenzene	N/A	<10	1	10
Fluoride	N/A	638	1	500
Guthion	N/A	<0.1	1	0.1
Heptachlor	N/A	< 0.01	1	0.01
Heptachlor Epoxide	N/A	< 0.01	1	0.01
Hexachlorobenzene	N/A	<5	1	5
Hexachlorobutadiene	N/A	<10	1	10
Hexachlorocyclohexane (alpha)	N/A	<0.05	1	0.05
Hexachlorocyclohexane (beta)	N/A	<0.05	1	0.05
gamma-Hexachlorocyclohexane	N/A	<0.05	1	0.05
(Lindane)				
Hexachlorocyclopentadiene	N/A	<10	1	10
Hexachloroethane	N/A	<20	1	20
Hexachlorophene	N/A	<10	1	10
Lead	N/A	<0.5	1	0.5
Malathion	N/A	0.284	1	0.1
Mercury	N/A	<0.005	1	0.005
Methoxychlor	N/A	<2	1	2
Methyl Ethyl Ketone	N/A	<50	1	50
Mirex	N/A	<0.02	1	0.02
Nickel	N/A	5.91	1	2
Nitrate-Nitrogen	N/A	13200	1	100
Nitrobenzene	N/A	<10	1	10
N-Nitrosodiethylamine	N/A	<20	1	20
N-Nitroso-di-n-Butylamine	N/A	<20	1	20
Nonylphenol	N/A	<333	1	333
Parathion (ethyl)	N/A	<0.1	1	0.1
Pentachlorobenzene	N/A	<20	1	20
Pentachlorophenol	N/A	<5	1	5
Phenanthrene	N/A	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Polychlorinated Biphenyls (PCB's) (*3)	N/A	<0.2	1	0.2
Pyridine	N/A	<20	1	20
Selenium	N/A	<5	1	5
Silver	N/A	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	N/A	<20	1	20
1,1,2,2-Tetrachloroethane	N/A	<10	1	10
Tetrachloroethylene	N/A	<10	1	10
Thallium	N/A	<0.5	1	0.5
Toluene	N/A	<10	1	10
Toxaphene	N/A	<0.3	1	0.3
2,4,5-TP (Silvex)	N/A	<0.3	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	N/A	<10	1	10
1,1,2-Trichloroethane	N/A	<10	1	10
Trichloroethylene	N/A	<10	1	10
2,4,5-Trichlorophenol	N/A	<50	1	50
TTHM (Total Trihalomethanes)	N/A	<10	1	10
Vinyl Chloride	N/A	<10	1	10
Zinc	N/A	17.6	1	5

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

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

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

Section 2. Priority Pollutants

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

Grab ⊠ Composite ⊠

Date and time sample(s) collected: 06/12/2024 08:55 (Grab); 06/11/2024 08:55 to 06/12/2024 08:55 (Composite)

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	N/A	<5	1	5
Arsenic	N/A	1.65	1	0.5
Beryllium	N/A	<0.5	1	0.5
Cadmium	N/A	<1	1	1
Chromium (Total)	N/A	<3	1	3
Chromium (Hex)	N/A	8.41	1	3
Chromium (Tri) (*1)	N/A	<2	1	N/A
Copper	N/A	<2	1	2
Lead	N/A	<0.5	1	0.5
Mercury	N/A	< 0.005	1	0.005
Nickel	N/A	5.91	1	2
Selenium	N/A	<5	1	5
Silver	N/A	<0.5	1	0.5
Thallium	N/A	<0.5	1	0.5
Zinc	N/A	17.6	1	5
Cyanide (*2)	N/A	<10	1	10
Phenols, Total	N/A	<10	1	10

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

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

Table 4.0(2)B – Volatile Compounds

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

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
2-Chlorophenol	N/A	<10	1	10
2,4-Dichlorophenol	N/A	<10	1	10
2,4-Dimethylphenol	N/A	<10	1	10
4,6-Dinitro-o-Cresol	N/A	<50	1	50
2,4-Dinitrophenol	N/A	<50	1	50
2-Nitrophenol	N/A	<20	1	20
4-Nitrophenol	N/A	<50	1	50
P-Chloro-m-Cresol	N/A	<10	1	10
Pentalchlorophenol	N/A	<5	1	5
Phenol	N/A	<10	1	10
2,4,6-Trichlorophenol	N/A	<10	1	10

Table 4.0(2)D - Base/Neutral Compounds

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

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

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Aldrin	N/A	<0.01	1	0.01
alpha-BHC (Hexachlorocyclohexane)	N/A	<0.05	1	0.05
beta-BHC (Hexachlorocyclohexane)	N/A	<0.05	1	0.05
gamma-BHC (Hexachlorocyclohexane)	N/A	<0.05	1	0.05
delta-BHC (Hexachlorocyclohexane)	N/A	<0.05	1	0.05
Chlordane	N/A	<0.2	1	0.2
4,4-DDT	N/A	<0.02	1	0.02
4,4-DDE	N/A	<0.1	1	0.1
4,4,-DDD	N/A	<0.1	1	0.1
Dieldrin	N/A	<0.02	1	0.02
Endosulfan I (alpha)	N/A	<0.01	1	0.01
Endosulfan II (beta)	N/A	<0.02	1	0.02
Endosulfan Sulfate	N/A	<0.1	1	0.1
Endrin	N/A	<0.02	1	0.02
Endrin Aldehyde	N/A	<0.1	1	0.1
Heptachlor	N/A	<0.01	1	0.01
Heptachlor Epoxide	N/A	<0.01	1	0.01
PCB-1242	N/A	<0.2	1	0.2
PCB-1254	N/A	<0.2	1	0.2
PCB-1221	N/A	<0.2	1	0.2
PCB-1232	N/A	<0.2	1	0.2
PCB-1248	N/A	<0.2	1	0.2
PCB-1260	N/A	<0.2	1	0.2
PCB-1016	N/A	<0.2	1	0.2
Toxaphene	N/A	<0.3	1	0.3

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

Section 3. Dioxin/Furan Compounds

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

 $\textbf{C.} \ \ \textbf{If any of the compounds in Subsection A or B are present, complete Table 4.0(2)F.}$

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

Grab □ Composite □

Date and time sample(s) collected: N/A

Table 4.0(2)F - Dioxin/Furan Compounds

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

ATTACHMENT TR-13 WORKSHEET 5.0 TOXICITY TESTING REQUIREMENTS

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: <u>36</u> 48-hour Acute: **16**

Section 2. Toxicity Reduction Evaluations (TREs)

Has this fa	acility con	ipleted a	TRE in tl	he past	four a	nd a l	half y	ears?	Or is	the facil	ity c	urrently
performin	g a TRE?											
_												

□ Yes ⊠ No

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

N <u>/A</u>			

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
DMRs submitt	<mark>ed via NetDMR. Table 1s</mark>	submitted to TCEQ email W	ET@tceq.texas.gov

ATTACHMENT TR-14 WORKSHEET 6.0 INDUSTRIAL WASTE CONTRIBUTION

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

If there are no users, enter 0 (zero). Categorical IUs: Number of IUs: 0 Average Daily Flows, in MGD: 0 Significant IUs - non-categorical: Number of IUs: 2 Average Daily Flows, in MGD: 0.032 Other IUs: Number of IUs: 0 Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

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

N/ <u>A</u>	
	ŀ

	In the past three years, has your POTW experienced pass through (see instructions)?
	□ Yes ⊠ No
	If yes , identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.
	N/\underline{A}
_	
D.	Pretreatment program
	Does your POTW have an approved pretreatment program?
	☐ Yes ☒ No
	If yes, complete Section 2 only of this Worksheet.
	Is your POTW required to develop an approved pretreatment program?
	✓ Yes □ No
	If yes, complete Section 2.c. and 2.d. only, and skip Section 3.
	If no to either question above , skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.
Se	ction 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)
Α.	Substantial modifications
	Have there been any substantial modifications to the approved pretreatment program
	that have not been submitted to the TCEQ for approval according to 40 CFR §403.18?
	□ Yes ⊠ No
	If yes , identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.
	N <u>/A</u>

C. Treatment plant pass through

	have not been submitte			-
□ Yes	⊠ No			
	all non-substantial mopurpose of the modific		at have not been	submitted to TCEQ,
N <u>/A</u>				
C. Effluent para	meters above the MAL	ı		
monitoring du), list all parameters mo aring the last three year cameters Above the MAL	rs. Submit an a		
Pollutant	Concentration	MAL	Units	Date
N/A				
D. Industrial use	-			
	CIU, or other IU caused or pass throughs) at yo			
	No	of to twill the	re pust times year	·
	y the industry, describe	a aach anisade	including dates	duration description
	ns, and probable pollut		, meruumg dates,	duration, description
N/ <u>A</u>				

B. Non-substantial modifications

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

A.	General information
	Company Name: See Attachments "Industrial User No. 1" and Industrial User No.2"
	SIC Code: N/A
	Contact name: <u>N/A</u>
	Address: <u>N/A</u>
	City, State, and Zip Code: <u>N/A</u>
	Telephone number: <u>N/A</u>
	Email address: <u>N/A</u>
В.	Process information Describe the industrial processes or other activities that affect or contribute to the SIU(s)
	or CIU(s) discharge (i.e., process and non-process wastewater).
	N/A
C.	Product and service information
	Provide a description of the principal product(s) or services performed.
	N/A
D.	Flow rate information
	See the Instructions for definitions of "process" and "non-process wastewater."
	Process Wastewater:
	Discharge, in gallons/day: <u>N/A</u>
	Discharge Type: □ Continuous □ Batch □ Intermittent
	Non-Process Wastewater:
	Discharge, in gallons/day: <u>N/A</u>

Batch

Intermittent

Discharge Type: □ Continuous

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

Industrial User No. 1 Bell's Plating

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

	Categorical muustra	I USCI	(CIO)	mouuc	HOHS I	agv
A.	General information					

	Company Name: Bell's Plating
	SIC Code: <u>3471</u>
	Contact name: Michael Bray
	Address: 1115 Industrial Drive
	City, State, and Zip Code: Royse City, TX 75189
	Telephone number: <u>972-635-9505</u>
	Email address: <u>bellsplating@coolaccess.net</u>
B.	Process information
	Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).
	The IU performs powder coating and electroplating (nickel plating). The IU does very little if any electroplating currently.
C.	Product and service information
C.	Product and service information Provide a description of the principal product(s) or services performed.
C.	
C.	Provide a description of the principal product(s) or services performed.
C.	Provide a description of the principal product(s) or services performed.
C.	Provide a description of the principal product(s) or services performed.
C.	Provide a description of the principal product(s) or services performed.
C.	Provide a description of the principal product(s) or services performed.
	Provide a description of the principal product(s) or services performed.
	Provide a description of the principal product(s) or services performed. Miscellaneous steel/aluminum parts
	Provide a description of the principal product(s) or services performed. Miscellaneous steel/aluminum parts Flow rate information
	Provide a description of the principal product(s) or services performed. Miscellaneous steel/aluminum parts Flow rate information See the Instructions for definitions of "process" and "non-process wastewater."
	Provide a description of the principal product(s) or services performed. Miscellaneous steel/aluminum parts Flow rate information See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater:
	Provide a description of the principal product(s) or services performed. Miscellaneous steel/aluminum parts Flow rate information See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater: Discharge, in gallons/day: IU does not discharge process wastewater
	Provide a description of the principal product(s) or services performed. Miscellaneous steel/aluminum parts Flow rate information See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater: Discharge, in gallons/day: IU does not discharge process wastewater Discharge Type: Continuous Batch Intermittent
	Provide a description of the principal product(s) or services performed. Miscellaneous steel/aluminum parts Flow rate information See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater: Discharge, in gallons/day: IU does not discharge process wastewater Discharge Type: Continuous Batch Intermittent Non-Process Wastewater:

E.	Pretreatment standards
	Is the SIU or CIU subject to technically based local limits as defined in the <i>i</i> nstructions?
	⊠ Yes □ No
	Is the SIU or CIU subject to categorical pretreatment standards found in $40\ CFR\ Parts\ 405-471?$
	⊠ Yes □ No
	If subject to categorical pretreatment standards , indicate the applicable category and subcategory for each categorical process.
	Category: <u>40 CFR 433.17</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
F.	Industrial user interruptions
	Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?
	□ Yes ⊠ No
	If yes , identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.
	N/A

Industrial User No. 2 Brown's Die Casting

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

A (General	inform	antion
A. (Generai	iniorn	าลบดท

Company	Name:	Brown'	s Die	Casting

SIC Code: <u>3544</u>

Contact name: <u>Mark Brown</u> Address: <u>1209 Industrial Drive</u>

City, State, and Zip Code: Royse City, TX 75189

Telephone number: <u>972-636-9575</u> Email address: <u>mbbdc@bdcinc.com</u>

B. Process information

C.

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

The HI wasfermer coefficient of your elementary. Non-contest coefficient retaining and in a closed loss
The IU performs casting of raw aluminum. Non-contact cooling water is used in a closed loop
system that is not tied to the sewer. Primary water consumption is from additional make-up
water added to account for loss due to evaporation. This water is not discharged.
Product and service information
Provide a description of the principal product(s) or services performed.
Provide a description of the principal product(s) or services performed. Miscellaneous aluminum cast parts

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: <u>IU does not discharge process wastewater</u>

Discharge Type: □ Continuous □ Batch □ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 25,500 gpd – Discharges sanitary only

Discharge Type:

☐ Continuous ☐ Batch ☐ Intermittent

E.	Pretreatment standards
	Is the SIU or CIU subject to technically based local limits as defined in the <i>i</i> nstructions?
	⊠ Yes □ No
	Is the SIU or CIU subject to categorical pretreatment standards found in <i>40 CFR Parts 405-471</i> ?
	⊠ Yes □ No
	If subject to categorical pretreatment standards , indicate the applicable category and subcategory for each categorical process.
	Category: 40 CFR 464.16 *The IU performs CIU activities but
	Subcategories: N/A does not discharge process
	Category: N/A wastewater. IUs that do not discharge process wastewater are listed as an
	Subcategories: N/A SIU.
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
F.	Industrial user interruptions
	Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?
	□ Yes ⊠ No
	If yes , identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.
	N <u>/A</u>

ATTACHMENT 12 DESIGN CALCULATIONS

Influent Flow and Loading

Influent Flow

NTMWD provided historical operating data for the plant for January 2017 to December 2023. The hourly effluent flow was converted to daily average flow for further evaluation. Daily average effluent flow, linear regression, and 30-day moving average flow are shown in Figure 1. Table 1 shows the pertinent annual flow parameters from the historical data provided.

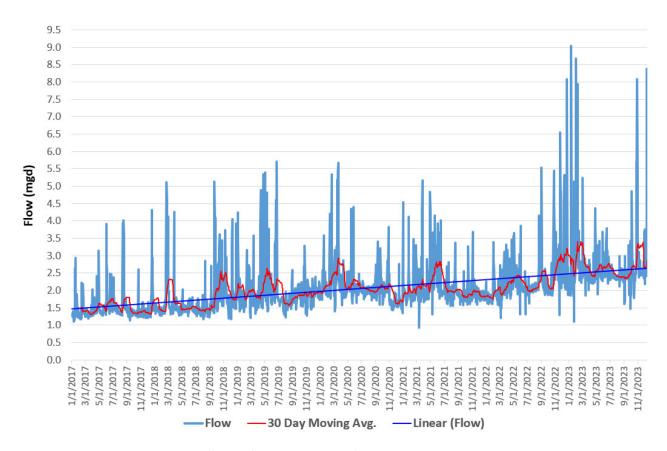


Figure 1: Daily effluent flow 2017 - 2023*

^{*}A small set of data points were ignored due to flow values being off by orders of magnitude from other flow values.

Table 1: Summary of Influent Flow Parameters

Parameter	2017	2018	2019	2020	2021	2022	2023
Estimated	17,446	20,324	23,223	26,766	30,812	34,858	38,904
Connected							
Population							
Annual	1.5	1.73	1.96	2.12	2.07	2.31	2.71
Average Daily							
Flow (MGD)							
Maximum 30-	1.8	2.54	2.64	2.92	2.83	3.21	3.41
day Flow							
(MGD)							
Maximum Day	4.32	5.13	5.7	5.67	5.17	8.08	9.03
Flow (MGD)							
Peak 2-hour	5.4	5.73	6.7	6.5	N/A*	N/A*	N/A*
Flow (MGD)							
Peak 2-hour	3.6	3.3	3.4	3.1	N/A*	N/A*	N/A*
Factor							
Per Capita	86	85	84	79	67	66	70
Flow							
(gal/cap/d)							

^{*}Flow data for the years 2021, 2022, and 2023 are only daily averages, so Peak 2-hour Flow and Peak 2-hour Factor could not be calculated.

Plant Influent BOD, TSS and Ammonia Load:

NTMWD provided historical data from January 2017 to December 2023 for plant influent characteristics including influent BOD, TSS and ammonia. Figure 2 shows the revised influent BOD and TSS concentration and Figure 3 shows the influent ammonia concentrations for year 2017 through 2023.

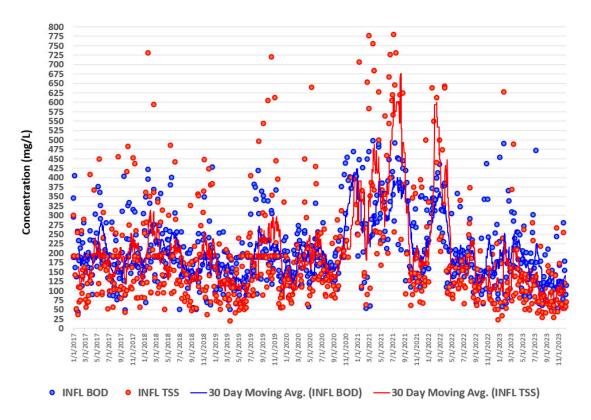


Figure 2: Plant influent BOD and TSS concentration 2017 – 2023

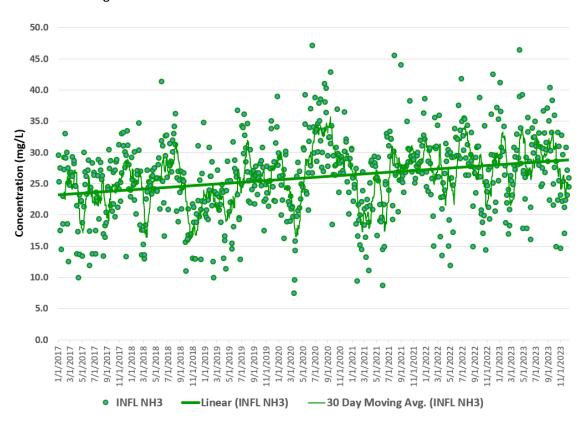


Figure 3: Influent ammonia concentration 2017 – 2023

Based on this historical data, the annual averages for influent BOD, TSS, and ammonia concentrations, mass loads and per capita contributions for 2017 – 2023 are summarized in Table 2. The long-term average concentrations of BOD, TSS and ammonia are summarized in Table 3. The maximum 30-day moving average will be used as the basis for the 30-day Maximum Month load design criteria.

Table 2: Influent Load Parameters

Year	Flow	BOD			TSS			NH3-N		
	(MGD)	mg/L	lb/d	lb/c/d	mg/L	lb/d	lb/c/d	mg/L	lb/d	lb/c/d
2017	1.5	196	2452	0.14	173	2164	0.12	23.9	299	0.017
2018	1.73	199	2871	0.14	194	2799	0.14	24.1	348	0.017
2019	1.96	179	2926	0.13	168	2746	0.12	24.9	407	0.018
2020	2.12	182	3218	0.12	175	3094	0.12	28.1	497	0.019
2021	2.07	279*	4817	0.16	331*	5714	0.19	25.6	442	0.017
2022	2.31	209	4026	0.12	190	3660	0.11	27.4	527	0.020
2023	2.71	165	3729	0.10	119	2690	0.07	28.3	639	0.024

^{*}Values for BOD and TSS were significantly higher from November 2020 through March 2022, likely due to the COVID-19 pandemic. The Sabine Creek service area is located approximately 30 miles outside of Dallas, so it is likely that many of the population would typically commute into Dallas during the workday. Since the pandemic caused most people to work from home, this may have caused the significant increase in BOD and TSS loading during this period.

Table 3: Average Day and Maximum 30-day Concentration 2017 – 2023*

Parameter	Average Day Design Concentration	Average 30-day Maximum Concentration
BOD (mg/L)	189	263
TSS (mg/L)	170	278
NH3-N (mg/L)	26.0	34.3

^{*}BOD and TSS data from November 1, 2020 through March 31, 2022 is excluded from these calculations due to increased loading, likely from the COVID-19 pandemic.

Current Effluent Permit Limits and Plant's Performance

NTMWD provided the historical effluent quality data for January 2017 through December 2023. Based on the data provided, the effluent CBOD, TSS and NH3-N are well within the permitted effluent limits. Table 4 shows the current daily average effluent limits per the TPDES permit and Table 5 shows the plant's annual average effluent quality for 2017-2023.

Table 4: Current Permitted Effluent Limits

Parameter	Daily Average Effluent Limit
CBOD (mg/L)	10
TSS (mg/L)	15
NH3-N (mg/L)	2

Table 5: Annual Average Effluent Quality 2017-2023

Parameter	2017	2018	2019	2020	2021	2022	2023
CBOD (mg/L)	2	2	2	2	2	2	2
TSS (mg/L)	2	2	2	1	1	2	1
NH3-N (mg/L)	0.28	0.57	0.32	0.5	1.0	0.73	1.02

Proposed Expansion Design Features

The plant is currently permitted for 7 MGD AADF with 21.0 MGD P2HF. As indicated in the previous section, the proposed expansions are for 11 MGD AADF with 44 MGD P2HF, and then 20 MGD AADF with 80 MGD P2HF, both with a peaking factor of 4. Hence the proposed expansions will include new facilities such that the existing and new facilities combined will handle 11 MGD AADF and 44 MGD peak flow, and then 20 MGD AADF and 80 MGD peak flow. The current plant expansion will be completed in 2025 and will expand the plant from 3 MGD AADF with 9 MGD P2HF (3 MGD) to 7 MGD AADF with 21.0 MGD P2HF (7 MGD).

The 7 MGD expansion facilities will operate as a separate treatment train in parallel with the 3 MGD facilities, except that several process interconnections are being made between the two treatment trains to create operational flexibility. Treatment Train A includes the aeration basins and secondary clarifiers from the original 3 MGD plant and has an AADF capacity of 3 MGD. Treatment Train B includes the aeration basins and secondary clarifiers being added in the 7 MGD expansion and has an AADF capacity of 4 MGD.

The new facilities to be installed in the next two expansion phases will add capacity to Train B (the previously installed facilities from the 7 MGD expansion), still operating in parallel with Train A (the original 3 MGD treatment train). Primary clarifiers will serve both treatment trains. Solids from both treatment trains will be combined for dewatering and handling. The facilities being added in the 7 MGD expansion are considered existing in this narrative.

The long-term average concentrations of influent BOD, TSS and ammonia are summarized in Table 8 and will be used as the design criteria for the proposed expansion. The proposed expansion will meet the current TPDES permitted effluent limits summarized in Table 4.

Treatment Facilities and Equipment

The following facilities are sized based on the regulations listed in 30 TAC Chapter 217.

Influent Lift Station

A new dry pit influent lift station (No. 2) was installed in the (7 MGD) plant expansion with 5 total pumps, 4 duty pumps and 1 standby pump, with a firm lift station capacity of 14 MGD. Out of the 5 pumps, 2 pumps are jockey pumps (2 MGD each) and 3 pumps are large pumps (5 MGD each) with 1 large pump as a standby pump. This was in addition to the existing (3 MGD) lift station (No. 1), which contains 5 pumps and has a firm capacity of 9 MGD.

For the first expansion phase to 44 MGD P2HF, the 2 jockey pumps in influent lift station No. 2 are proposed to be replaced with large pumps, and an additional 4 large pumps are proposed to be added for a total of 9 large pumps (8 duty and 1 standby). These large pumps will operate at 4.5 MGD each, for a firm capacity of 36 MGD. The combined firm capacity of the two lift stations will be 45 MGD. The new pumps will have variable frequency drives like the existing, located in a separate electrical building immediately adjacent to the lift station. A new 24-inch force main will be added to the headworks facility and interconnections will be made between the existing force mains and the new force main to allow flexibility of operation.

For the second expansion phase to 80 MGD P2HF, a third lift station (No. 3) is proposed to be added with 9 large pumps (8 duty and 1 standby). The pumps in the new lift station will operate at 4.5 MGD each for a firm capacity of 36 MGD. The combined firm capacity of the three lift stations will be 81 MGD. The new pumps will also have variable frequency drives in a new separate electrical building dedicated to the third lift station. A new 36-inch force main will be added to the headworks facility and interconnections will be made between the existing force mains and the new force main to allow flexibility of operation.

Headworks:

The existing headworks have three ¼-inch-opening fine step screens with a total 32 MGD installed capacity and 2 bypass manual screens. For the first expansion, it is proposed to add two ¼-inch- opening 16 MGD fine step screens in this project with bypass manual screens, and a washer compactor. The installed capacity of 64 MGD will exceed the 44 MGD required for this expansion.

For the second expansion, it is proposed to add an additional two %-inch-opening 16 MGD fine step screens with bypass manual screens and washer compactors. This will bring the total installed capacity to 96 MGD, which meets the requirements of the second expansion.

The existing headworks have a 16 MGD and a 20 MGD forced-vortex grit chambers with grit pumps, cyclone separators, and grit classifiers. For the first expansion, it is proposed to add one 20 MGD grit chamber with a grit pump, cyclone separator, and grit classifier. For the second expansion, it is proposed to add an additional two 20 MGD forced-vortex grit tanks with grit pumps, cyclone separators, and grit classifiers.

Primary Clarifiers

Three 100-ft primary clarifiers are proposed to be added in the first expansion. The existing plant does not have any primary clarifiers. Flows from both headworks facilities will be combined and sent to the primary clarifiers. The new 100-ft primary clarifiers will be designed for up to 5.0 MGD each at design flow and up to 20.0 MGD each at peak flows. This capacity will total to more than the 11 MGD design flow and 44 MGD peak flow required for this expansion.

One additional 100-ft primary clarifier is proposed to be added in the second expansion with the same design criteria. The combined four primary clarifiers will have a design flow rate capacity of

20.0 MGD and a peak flow capacity of 80.0 MGD. The primary clarifier design criteria are included in Table 6.

Table 6: Proposed Expansion Primary Clarifier Design Criteria

Parameter	Design Criteria	Design Criteria		
	11 MGD Expansion	20 MGD Expansion		
Total number of clarifiers	3 new, 3 total	1 new, 4 total		
Diameter, feet	100	100		
Side Water Depth, feet	18	18	>10 30 TAC 217.129(d)(3)	
Design Average, MGD (each)	3.7	5.0		
Peak Flows, MGD (each)	14.7	20.0		
Surface Loading Rate at Design flow, gpd/ft2	467	637	<1,000	
Surface Loading rate at P2HF, gpd/ft2	1,867	2,546	<1,800 *2,000-3,000 per Metcalf and Eddy	
Effluent Weir Loading Rate at P2HF, gpd/ft	46,685	63,662	<30,000	
Detention time at P2HF, hrs	1.7	1.3	>0.9	

For the 11 MGD and 20 MGD expansions, the respective proposed P2HF surface loading rates are 1,867 gpd/ft2 and 2,546 gpd/ft2, and the proposed effluent weir loading rates are 46,685 gpd/ft and 63,662 gpd/ft, as shown in Table 6. These are in exceedance of the TCEQ requirements. The surface overflow rates are based on Metcalf & Eddy, which allow for 2,000-3,000 gpd/ft² at peak flows. The effluent weir loading rates being in exceedance of the TCEQ requirements does not impact the effectiveness of the treatment process since there are additional downstream treatment units for nutrient and solids removal.

Primary Sludge Pumps

A new primary sludge pump station will be installed with the 11 MGD expansion. The pump station will initially serve primary clarifiers 1, 2, and 3 and will house five primary sludge pumps (three duty and two standby units). For the 20 MGD expansion, an additional pump will be added to the primary sludge pump station to serve primary clarifier 4, for a total of six pumps (four duty and two standby units). The new primary sludge pumps have been designed to meet the effluent requirements at the design capacity of 11 MGD AADF and 20 MGD AADF for the respective expansions, pumping sludge for 8 hours per day, 7 days per week. The design parameters associated with the new sludge pumps are listed in Table 7.

Table 7: Proposed Primary Sludge Pump Design Criteria

Parameter	Design Criteria	Design Criteria		
	11 MGD	20 MGD		
	Expansion	Expansion		
No. of primary	5 new, 5 total (3	1 new, 6 total (4		
sludge pumps	duty, 2 standby)	duty, 2 standby)		
Capacity	72.0 gpm each at	98.1 gpm each at		
	50' TDH	50' TDH		
Туре	Vertical	Vertical		
	centrifugal, VFD	centrifugal, VFD		
	Operated	Operated		

Aeration Basins

Treatment Train A includes the original four 0.75 MGD capacity aeration basins, with a total AADF capacity of 3.0 MGD. Treatment Train B includes the two 2.0 MGD capacity aeration basins added in the 7 MGD expansion, with a total AADF capacity of 4.0 MGD.

Two new aeration basins will be added to Train B in the 11 MGD expansion with a capacity of 2 MGD each (for a total of 4 aeration basins and an AADF capacity of 8.0 MGD in Train B). In the 20 MGD expansion, an additional 6 new aeration basins will be added to Train B with a capacity of 2 MGD each (for a total of 10 aeration basins and an AADF capacity of 20.0 MGD in Train B). The original four 0.75 MGD capacity aeration basins from Train A will be decommissioned and converted to sludge storage tanks as part of the 20 MGD expansion. The existing and proposed aeration basins combined will provide 11 MGD treatment capacity (for the 11 MGD expansion) and 20 MGD treatment capacity (for the 20 MGD expansion). The mode of operation for the aeration basins will be plug flow. The aeration basin design criteria are included in Table 8 and aeration blower design criteria are included in Table 9.

Table 8: Train B Proposed Expansion Aeration Basin Design Criteria

Parameter	Design Criteria	l	TCEQ Design Standard
	11 MGD	20 MGD	
Design AADF (MGD)	Expansion 8.0	Expansion 20.0	
Solids Retention Time (SRT), days	6.4-10	6.4-10	>6.38 @ 15 degrees C [Table F.8 Figure: 30 TAC 17.164(c)(3)]
Influent BOD, mg/L	189	189	
Influent BOD Loading, Ib/day	9,347	26,796	
Organic Loading Rate (BOD5 lbs/day/1,000cf)	35	35	<35 @ 15 degrees C [Table F.1 Figure: 30 TAC 217.154(b)(2)]
Influent TSS, mg/L	170	170	

Mixed-Liquor Suspended	3,000 – 4,000	3,000 – 4,000	2,000-5,000
Solids, mg/L			[30 TAC 217.156(a)(7)]
Total Number of Aeration	2 new, 4 total	6 new, 10 total	
Basins	Basins, 3 Zones	Basins, 3 Zones	
	each	each	
Side Water Depth, feet	20	20	
Total Aeration Basin Size,	150 feet x 30	150 feet x 30	
Each	feet x 20 feet	feet x 20 feet	
	673,200 gallons	673,200 gallons	

Table 9: Train B Aeration Blower Design Criteria

Parameter	Design Criteria		TCEQ Design Standard
	11 MGD	20 MGD	
	Expansion	Expansion	
No. of Blowers	1 new, 3 total	3 new, 6 total	
	(2 duty, 1	(5 duty, 1	
	standby)	standby)	
Blower Type	Single Stage	Single Stage	
	Centrifugal	Centrifugal	
	Integrally	Integrally	
	Geared	Geared	
	Blowers	Blowers	
O2R, lb O2/lb BOD	2.2	2.2	2.2 Minimum
applied			Per Table F.3 Figure: 30 TAC
			217.155(a)(3)]
Air flow/BOD5 load	3,317	3,317	>3200
(Standard cubic			[Table F.4 Figure: 30 TAC
feet/day/pound)			217.155(b)(1)]
Air Capacity	5,000 SCFM	5,000 SCFM	
	per blower	per blower	
Pressure	11.2 psi (w/ 20	11.2 psi (w/ 20	
	feet SWD)	feet SWD)	
Diffuser Type	9" Membrane	9" Membrane	
	Disc	Disc	
Diffuser Submergence	19 ft	19 ft	12 ft
Depth			
SOTE	26% Clean	26% Clean	26% Maximum
	water	water	30 TAC 217.155(b)(2)(A)(iii)
	12% Adjusted	12% Adjusted	30 TAC 217.155(b)(2)(B)(i)
AOR lb O2/hour	240 – Grid 1	240 – Grid 1	Maintain min D.O of 2.0 mg/l
Zone 3 (Aerated Zone)	160 – Grid 2	160 – Grid 2	30 TAC 217.154(b)(1)
	120 – Grid 3	120 – Grid 3	

Secondary Clarifiers

Train A includes the original two 50-ft diameter and one 70-ft diameter secondary clarifiers that receive an AADF loading of 3.0 MGD. Train B includes the two 100-ft secondary clarifiers added in

the 7 MGD expansion that receive an AADF loading of 4.0 MGD. Train A and Train B combine to have a total capacity of 7 MGD design flow and 27.8 MGD peak flow.

Three new 100-ft diameter secondary clarifiers will be added in the 11 MGD expansion. The new 100-foot-diameter clarifiers will be added to Train B and will be designed for 2 MGD design flow each. Each clarifier can handle up to 9.4 MGD peak 2-hour flow (based on TCEQ criteria of surface loading rate for clarifiers during peak flow). Hence, the existing and proposed clarifiers combined will provide 13 MGD design flow capacity and will be able to handle more than 44 MGD peak 2-hour flow for the 11 MGD expansion.

An additional four 100-ft diameter secondary clarifiers will be added to the Train B in the 20 MGD expansion. The new 100-foot-diameter clarifiers will be identical to those added in the 11 MGD expansion. The existing and proposed clarifiers combined will provide 21 MGD design flow capacity and will be able to handle more than 80 MGD peak 2-hour flow for the 20 MGD expansion.

The secondary clarifier design criteria are included in Table 10.

Table 10: Train B Proposed Expansion Secondary Clarifier Design Criteria

Parameter	Design Criteria		TCEQ Design Standard
	11 MGD	20 MGD	
	Expansion	Expansion	
Number of clarifiers	3 new, 5 total (4	4 new, 9 total (8	
	duty, 1 standby)	duty, 1 standby)	
Diameter, feet	100	100	
Side Water Depth,	18	18	>10
feet			30 TAC 217.152(g)(2)(A)
Design Average,	2.0	2.1	
MGD (each)			
Peak Flows, MGD	8.8	8.9	
(each)			
Surface Loading	255	271	
Rate at Design flow,			
gpd/ft2			
Surface Loading rate	1,114	1,130	<1200
at P2HF, gpd/ft2			
Effluent Weir	27,852	28,250	<30,000
Loading Rate at			
P2HF, gpd/ft			
Detention time at	2.90	2.86	>1.8
P2HF, hrs			

Secondary Sludge Pumps:

There are currently two secondary sludge pump stations. One secondary sludge pump station (No.1) serves the 50-ft and 70-ft secondary clarifiers (No. 1, No. 2, and No. 3) in Train A and will remain in service. A new secondary sludge pump station (No. 2) was constructed in the 7 MGD

expansion to serve the two new 100-ft secondary clarifiers also constructed in that expansion (No. 4 and 5) in Train B. This sludge pump station will also serve two of the new secondary clarifiers constructed in the 11 MGD expansion (No. 6 and 7). This secondary sludge pump station will be expanded to house an additional 3 RAS pumps and 2 WAS pump, for a total of 6 RAS pumps (4 duty and 2 standby units) and 4 WAS pumps (2 duty and 2 standby units). In the 11 MGD expansion, a third secondary sludge pump station (No. 3) will be constructed to serve the new Secondary Clarifier No. 8, also in Train B. This pump station will initially house 2 RAS pump (1 duty and 1 standby unit) and 2 WAS pump (1 duty and 1 standby unit). The new Train B RAS and WAS pumps combined with the existing Train B pumps have been designed to meet the effluent requirements at the design capacity of 8 MGD AADF (total capacity of the plant 11 MGD including 3 MGD Train A).

In the 20 MGD expansion, 1 additional RAS pump will be added to the third secondary sludge pump station to serve the new Secondary Clarifier No. 9, for a total of 3 RAS pumps (2 duty and 1 standby unit) and 2 WAS pumps (1 duty and 1 standby unit). Another new secondary sludge pump station will be constructed with the 20 MGD expansion to serve the new Clarifiers No. 10, 11, and 12 constructed in this expansion. This secondary sludge pump station will house 5 RAS pumps (3 duty and 2 standby units) and 3 WAS pumps (2 duty and 1 standby unit). The new Train B RAS and WAS pumps combined with the existing Train B pumps have been designed to meet the effluent requirements at the design capacity of 17 MGD AADF (total capacity of the plant 20 MGD).

The design parameters associated with the new sludge pumps are listed in Table 11.

Table 11: Proposed RAS and WAS Pump Design Criteria

Parameter	Design Criteria		TCEQ Design Standard
	11 MGD Expansion	20 MGD Expansion	
	Ne	w RAS Pumps	
No. of RAS	5 new, 8 total (5 duty,	6 new, 14 total (9	
pumps	3 standby)	duty, 5 standby)	
Maximum	306	306	200-400
Clarifier			
Underflow			
Rate, gpd/sqft			
Capacity	1,667 gpm at 17' TDH	1,667 gpm at 17' TDH	
Туре	Vertical centrifugal,	Vertical centrifugal,	
	VFD Operated	VFD Operated	
	Ne	w WAS Pumps	
No. of WAS	4 new, 6 total (3 duty,	3 new, 9 total (5 duty,	
pumps	3 standby)	4 standby)	
Capacity	250 gpm at 50' TDH	250 gpm at 50' TDH	
Туре	Double disc	Double disc	
	diaphragm, VFD	diaphragm, VFD	
	Operated	Operated	

Disc Filter

New disc filter units will be constructed as an expansion to the existing effluent filtration facilities. The existing filtration facilities include a traveling bridge filter with a peak capacity of 5 MGD, one disc filter with a peak capacity of 8 MGD, and two disc filters, each with a peak capacity of 8.2 MGD. For the 11 MGD expansion, the traveling bridge filter will be decommissioned and three new disc filters will be sized for 8.2 MGD capacity each and will function in the same manner as the existing disc filters. The combined firm capacity of the existing and new tertiary filtration facilities will be 49 MGD. For the 20 MGD expansion, an additional four disc filters with 8.2 MGD capacity each will be installed, for a total combined capacity of 81.8 MGD. The design basis criteria for new disc filters are provided in Table 12.

Parameter	Design Criteria	TCEQ Design	
	11 MGD Expansion	20 MGD Expansion	Standard
Media Type	Cloth Disc Media	Cloth Disc Media	
No. of units	3 new, 6 total	4 new, 10 total	No redundancy required for polishing
Number of discs per unit	7	7	
Area per unit	896 ft2	896 ft2	
Peak flow (MGD)	8.2 MGD	8.2 MGD	
Peak Filtration Rate	6.36 gpm/ft2	6.36 gpm/ft2	<6.5 gpm/ft2

Table 12: Proposed Expansion Disc Filter Design Criteria

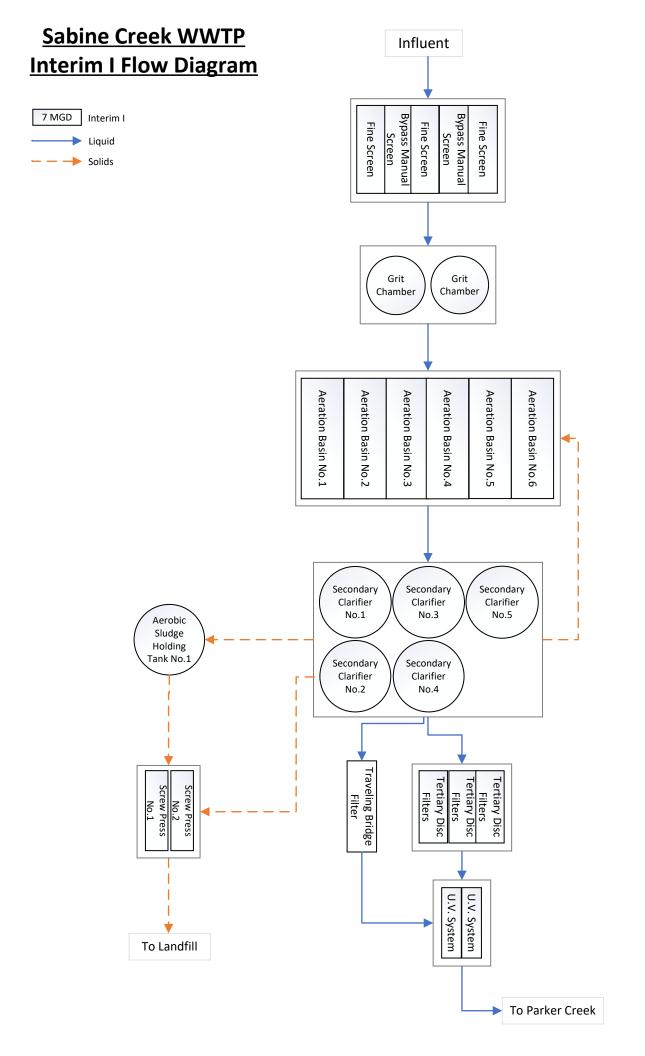
Ultraviolet Disinfection

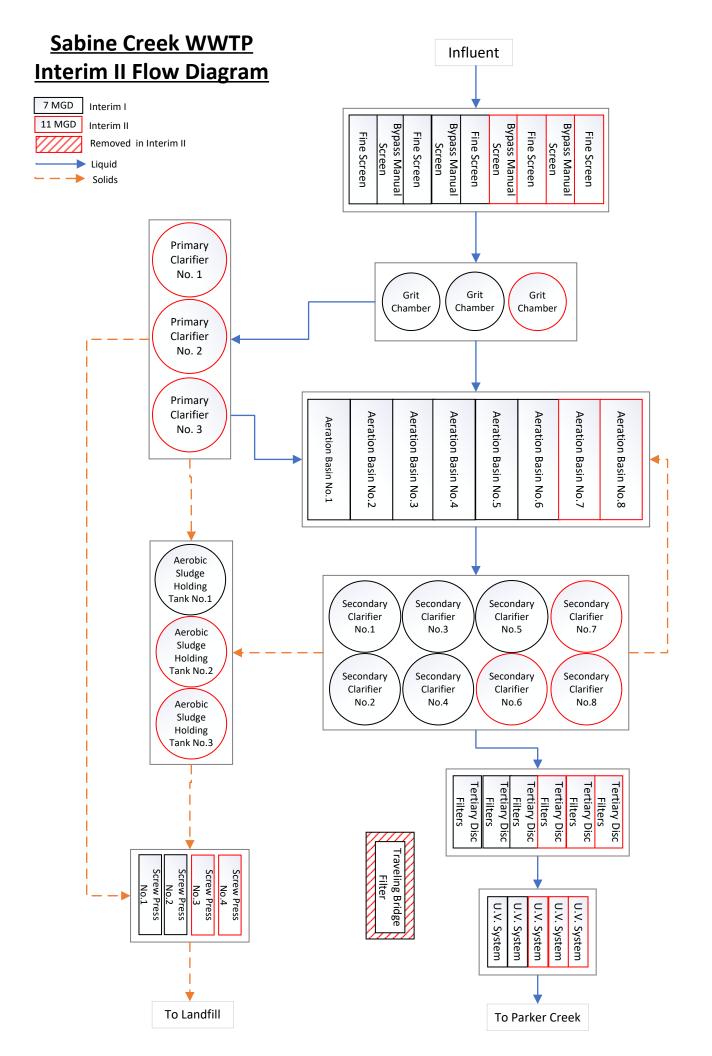
The plant's current disinfection system consists of two UV channels, each with five UV lamp modules. In the proposed 11 MGD expansion, three additional channels will be installed with 5 UV lamp modules each, resulting in a total of 5 channels and a total of 25 modules with a total capacity of 53.0 MGD. In the proposed 20 MGD expansion, three additional channels will be installed with 5 UV lamp modules each, resulting in a total of 8 channels and a total of 40 modules with a total capacity of 84.8 MGD. The plant's current TPDES permit limits related to disinfection are a daily average of 126 MPN/100 ml and a daily maximum of 399 MPN/100 ml. The proposed expansion designs will meet the current TPDES permit limits, and the design criteria is listed in Table 13.

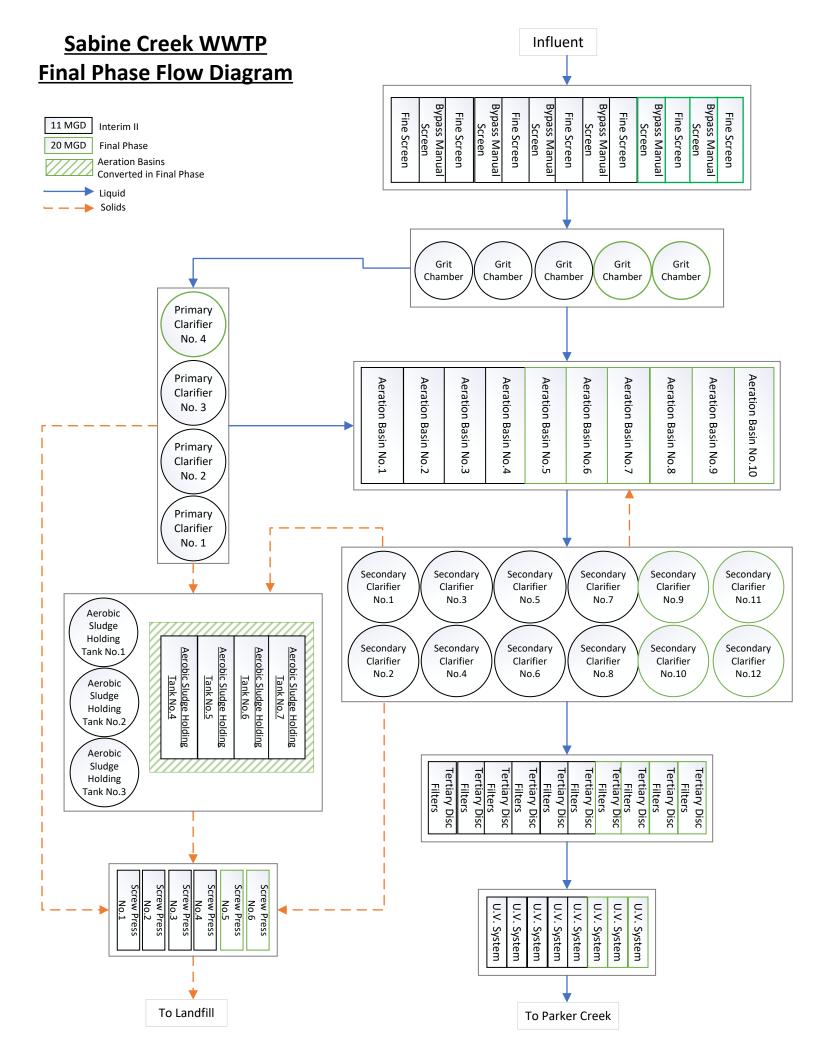
Design Criteria TCEQ Design Parameter 11 MGD Expansion **20 MGD Expansion** Standard **Design Flow** 11 MGD/ 44 MGD 20 MGD/80 MGD (AADF/P2HF) 126 MPN/ 100 ml **Disinfection Limits** 126 MPN/ 100 ml **Current Permit limits UV Transmittance** 65% 65% **Number of Channels** 3 new, 5 total 3 new, 8 total Number of Lamp 5 5 Modules per Channel Total Number of Lamp 25 40 Modules

Table 13: UV Disinfection Design Criteria

ATTACHMENT 9 PROCESS FLOW DIAGRAM







ATTACHMENT 15 OTHER ATTACHMENTS

ATTACHMENT 1 EPAY VOUCHER RECEIPT

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number: 737436

Trace Number: 582EA000640336 **Date:** 12/20/2024 09:25 AM

Payment Method: CC - Authorization 0000004379

Voucher Amount: \$50.00

Fee Type: 30 TAC 305.53B WQ NOTIFICATION FEE

ePay Actor: GARY WARD

- Payment Contact Information -

Name: JOEL NICKERSON

Company: NTMWD

Address: 501 BROWN, WYLIE, TX 75098

Phone: 972-442-5405

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number: 737435

Trace Number: 582EA000640336 **Date:** 12/20/2024 09:25 AM

Payment Method: CC - Authorization 0000004379

Voucher Amount: \$2,000.00

Fee Type: WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - NEW AND MAJOR

AMENDMENTS

ePay Actor: GARY WARD

- Payment Contact Information -

Name: JOEL NICKERSON

Company: NTMWD

Address: 501 BROWN, WYLIE, TX 75098

Phone: 972-442-5405

Site Information

Site Name: SABINE CREEK WWTP

Site Location: ROYSE CITY TX

- Customer Information

Customer Name: NTMWD

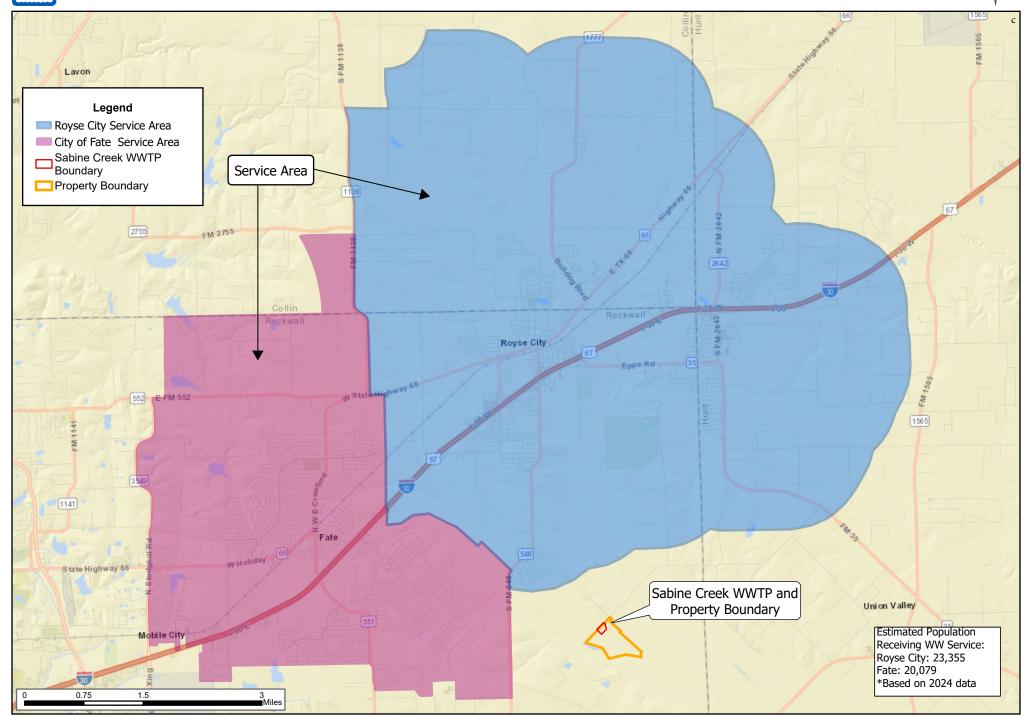
Customer Address: 501 BROWN, WYLIE, TX 75098

ATTACHMENT 10 SITE DRAWING



Sabine Creek WWTP Site Drawing





ATTACHMENT 13 SOLIDS MANAGEMENT PLAN

Sewage Sludge Solids Management Plan

Sludge Production

The estimated solids production for the proposed expansions to 11.0 MGD AADF and 20.0 MGD AADF are listed in Table 1. Primary sludge (PS) will typically range from 1% to 5% in solids concentration and waste activated sludge (WAS) will typically range from 0.4% to 0.9% in solids concentration. It was conservatively assumed that PS would be ~1% and WAS would be ~0.45% in setting up BioWin models and calculating sludge production.

Table 1: Estimated Solids Production

Parameter	Proposed Expansion Design Criteria			
	11 MGD Expansion	20 MGD Expansion		
Design AADF, MGD	11.0	20.0		
PS percent solids %	1.1%	1.0%		
WAS percent solids %	0.4%	0.5%		
Combined PS & WAS	0.6%	0.7%		
percent solids %				
Combined PS & WAS	17760	33160		
total dry solids, ppd				
Total dry solids	17760	33160		
production at design,				
ppd				
Total dry solids	13320	24870		
production at 75% of				
design, ppd				
Total dry solids	8880	16580		
production at 50% of				
design, ppd				
Total dry solids	4440	8290		
production at 25% of				
design, ppd				

Dewatering and Sludge Storage

The operating range for mixed liquor suspended solids design criteria is 3,000 - 4,000 mg/L. Solids from both existing and proposed expansion facilities will be handled together. The existing plant currently performs sludge dewatering using two screw presses operating 8 hours, 5 days a week. When the dewatering unit is not operational, sludge is pumped to a 150,000-gallon aerobic sludge holding tank.

The proposed expansion to 11 MGD will include an additional two screw presses for dewatering sludge from both existing and proposed expansion facilities, operating 8 hours, 5 days a week. This expansion will also include two 70-foot diameter sludge holding tanks with a capacity of 575,000 gallons each for a total of 1,300,000 gallons of sludge storage.

The proposed expansion to 20 MGD will include an additional two screw presses, operating 8 hours, 5 days a week. This expansion will also decommission the four 0.75 MGD capacity aeration basins and convert them to aerobic sludge holding tanks. This will provide four additional aerobic sludge holding tanks with a capacity of 269,000 gallons each for a total of 2,376,000 gallons of sludge storage. The converted aerobic sludge holding tanks will operate as aerobic digesters using coarse bubble aeration. As long as sufficient aeration is provided, there will be no more odor than the activated sludge basins, so no covers are required. The design data for the sewage sludge solids treatment units are summarized in Table 2.

Table 2. Sewage Sludge Solids Treatment Units

Treatment Unit	Total Units	Phase	Number of Units	Dimensions/Capacity
		7	4	Volume: 150,000 Gallons /
		MGD 1		Diameter: 42 ft
Sludge		11	2	Volume: 575,000 Gallons each /
Holding Tank	7	MGD		Diameter: 70 ft each
Holding Falls		20 MGD	4	Volume: 269,000 Gallons each /
				Dimensions: 75 ftx30 ftx16 ft SWD each
				(converted 0.75 MGD aeration basins)
		7 MGD 2		Solids Loading Capacity: 1000 lb/hr dry
			capacity each/	
			2	Flow: 200 GPM each at 1% sludge
				concentration
				Solids Loading Capacity: 1000 lb/hr dry
Screw Press 6	6	6 11	2	capacity each/
	0	MGD	2	Flow: 200 GPM each at 1% sludge
				concentration
		20 MGD	2	Solids Loading Capacity: 1000 lb/hr dry
				capacity each/
				Flow: 200 GPM each at 1% sludge
				concentration

The location of the current screw presses does not allow for the additional screw presses to be housed in the same building, so the additional screw presses added in the 11 MGD and 20 MGD expansions will be located in a separate building. TCEQ requires redundancy in dewatering units above 4.0 MGD AADF. Redundancy is provided with multiple presses and the ability to operate longer hours if necessary. The proposed screw press design criteria are listed in Table 3.

Table 3: Dewatering Design Criteria

Parameter	Design Criteria	TCEQ Design	
	11 MGD Expansion	20 MGD Expansion	Standard
Dewatering Unit	1000 lbs./hr. dry	1000 lbs./hr. dry	
Capacity	capacity	capacity	

Total Units	2 new, 4 total	2 new, 6 total	Redundancy required
			above 4.0 MGD AADF
Max capacity of the	200 gpm each at 1%	200 gpm each at 1%	
sludge feed pump:	sludge concentration	sludge concentration	

The estimated solids generated at design flows of 11.0 MGD and 20.0 MGD and at 75%, 50% and 25% of design flow were established in Table 1 and are also presented in Table 4 and Table 5. The tables include the combined PS and WAS solids and dewatered sludge solids generated at the various flows for the proposed expansions. Also included in the tables are the number of truckloads of solids expected to be generated per week.

Table 4: Sewage Sludge Solids Generated – 11 MGD Expansion

% Design Flow	25%	50%	75%	100%	
AADF, MGD	2.75	5.5	8.25	11.0	
	(Combined PS & WAS	S		
Flowrate (gpd)	87,500	175,000	262,500	350,000	
%TS	0.6%	0.6%	0.6%	0.6%	
Dry Solids	4,440	8,880	13,320	17,760	
(lbs/day)					
	Dewatered Solids				
%TS	16.8%	16.8%	16.8%	16.8%	
Total Dry Solids	4,220	8,440	12,660	16,880	
(lbs/day)					
Total Wet Solids	25,110	50,220	75,330	100,430	
(lbs/day)					
Approx	6	12	17	23	
Truckloads/Week					

Table 5: Sewage Sludge Solids Generated – 20 MGD Expansion

% Design Flow	25%	50%	75%	100%	
AADF, MGD	5.0	10.0	15.0	20.0	
	(Combined PS & WAS	S		
Flowrate (gpd)	147,500	295,000	442,500	590,000	
%TS	0.7%	0.7%	0.7%	0.7%	
Dry Solids	8,290	16,580	24,870	33,160	
(lbs/day)					
	Dewatered Solids				
%TS	16.4%	16.4%	16.4%	16.4%	
Total Dry Solids	7,880	15,750	23,630	31,500	
(lbs/day)					
Total Wet Solids	48,020	96,037	144,060	192,080	
(lbs/day)					
Approx	11	22	33	43	
Truckloads/Week					

Solids are processed and handled regularly, as required to maintain the WWTP. Dewatered solids are collected and hauled by NTMWD trucks (Hauler Registration No. 22488) for disposal at the NTMWD 121 Regional Disposal Facility (MSW Permit No. 2294), where the sludge is weighted and disposed. The hauling manifests and weight tickets are electronically scanned and imported into a computer database for data storage and report generation. The hauling manifests and weight tickets are on record at the NTMWD 121 Regional Disposal Facility and Sabine Creek WWTP.

ATTACHMENT 14 WATER BALANCE

DOMESTIC ATTACHMENT 14 - WATER BALANCE

Water Balance applies to Worksheet 3.0 Land Application of Effluent, Worksheet 3.1 Surface Land Disposal of Effluent, Worksheet 3.2 Subsurface Land Disposal of Effluent

Sabine Creek WWTP does not land apply, surface land dispose, or subsurface land dispose of effluent. Therefore, water balance is not required.