Administrative Package Cover Page

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

Portada de Paquete Administrativo

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit 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.

The City of Buda (CN600739866) owns and GBRA (CN601180565) Operates The City of Buda Wastewater Treatment Plant (RN101703288), an activated sludge process plant operated in the complete mix mode. The facility is located at 575 Garison Road, in Buda, Hays County, Texas 78610. This application is for a renewal of the facility's existing permit to treat a capacity of up to 3.5 million gallons per day of annual average flow.

Discharges from the facility are expected to contain Chloride, Total Dissolved Solids, Sulfate, and Alkalinity ($CaCO_3$), as well as permitted levels of biochemical oxygen demand, total suspended solids, ammonia, and phosphorus. Additional potential pollutants are listed in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, effluent filters, chlorine contact chambers and dechlorination. Biosolids residuals are aerated, thickened in a gravity thickener, dewatered using a belt filter press, and transported to other offsite permitted sludge processing facilities for further treatment.

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.

La Ciudad de Buda (CN601720741 o CN600739866) es propietaria y la GBRA (CN601180565) opera La Planta de Tratamiento de Aguas Residuales de la Ciudad de Buda (RN101703288), una planta de proceso de lodos activados que opera en modo de mezcla completa. La instalación está ubicada en 575 Garison Road, en Buda, Condado de Hays, Texas 78610. Esta aplicación es para una renovación de la autorización existente para tratar una capacidad de 3.5 millones de galones por día de flujo promedio anual. .

Se espera que las descargas de la instalación contengan cloruro, sólidos totales disueltos, sulfato y alcalinidad (CaCO3), asi como los niveles permitidos de demanda bioquimica de oxigeno, sólidos suspendidos totales, amoniaco, y fósforo. Otros contaminantes potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7. Análisis de contaminantes del efluente tratado y hoja de trabajo doméstica 4.0 en el paquete de solicitud de permiso. Aguas residuales domésticas. está tratado por una planta de proceso de lodo activado y las unidades de tratamiento incluyen una rejilla, una cámara de desarenado, estanques de aireación, clarificadores finales, filtros, cámaras de contacto con cloro y descloración. Los residuales sólidos biologicos se tratan por por aeración, espesador de gravidad, y filtro prensa de bandas, y transportado a otras instalaciones externas autorizadas de procesamiento de lodos para tratamiento adicional.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0011060001

APPLICATION. City of Buda and Guadalupe-Blanco River Authority, 405 East Loop Street, Building 100, Buda, Texas 78610, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011060001 (EPA I.D. No. TX0057436) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 3,500,000 gallons per day. The domestic wastewater treatment facility is located at 575 Garison Road, in the city of Buda, in Hays County, Texas 78610. The discharge route is from the plant site to Outfall 001 to an unnamed tributary, thence to Andrews Branch, thence to Porter Creek, thence to Soil Conservation Service (SCS) 6 Reservoir, thence to Porter Creek; and via Outfall 002 to an unnamed tributary, thence to an unnamed lake, thence to an unnamed tributary, thence to SCS 11 Reservoir, thence to an unnamed tributary, thence to SCS Reservoir 12, thence to Brushy Creek, thence to Plum Creek. TCEQ received this application on November 20, 2025. The permit application will be available for viewing and copying at Buda Public Library, Circulation Desk, 405 East Loop Street, Building 100, Buda, in Hays County, Texas prior to the date this notice is published in the newspaper. The application 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=-97.84144,30.08932&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 county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

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

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

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

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

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

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

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

If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

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

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

Further information may also be obtained from City of Buda and Guadalupe-Blanco River Authority at the address stated above or by calling Ms. Mary Newman, Guadalupe-Blanco River Authority, at 830-379-5822.

Issuance Date: December 9, 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
RENOVACION

PERMISO NO. WQ0011060001

SOLICITUD. La Ciudad de Buda y la Guadalupe Blanco River Authority, 405 East Loop Street, Building 100, Buda, Texas 78610, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0011060001 (EPA I.D. No. TX 0057436) 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 anual de 3,500,000 galones por día. La planta está ubicada en 575 Garison Road, en Buda, Condado de Hays, Texas 78610. La ruta de descarga es del sitio de la planta por Punto de Descarga 001 a un afluente sin nombre, de alli a Andrews Branch, de alli a Porter Creek, de alli a Soil Conservation Service (SCS) 6 Reservoir, de alli a Porter Creek; y por Punto de Descarga 002 a un afluente sin nombre, de alli a un lago sin nombre, de alli a un afluente sin nombre, de alli a SCS 11 Reservoir, de alli a un afluente sin nombre, de alli a SCS Reservoir 12, de alli a Brushy Creek, de alli Plum Creek. La TCEQ recibió esta solicitud el 20 de noviembre de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Buda Public Library, Circulation Desk, 405 East Loop Street, Building 100, Buda, en el Condado Hays, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud está disponible para su visualización y copia en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. 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=-97.84144,30.08932&level=18

AVISO DE IDIOMA ALTERNATIVO. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.**

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. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del 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 envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía http://www14.tceq.texas.gov/epic/eComment/o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. 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. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional de la Ciudad de Buda y la Guadalupe Blanco River Authority a la dirección indicada arriba o llamando a Ms. Mary Newman, Guadalupe-Blanco River Authority al 830-379-5822.

Fecha de emisión: el 9 de diciembre de 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Buda and the Guadalupe-Blanco River Authority

PERMIT NUMBER (If new, leave blank): WQ0011060001

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

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Original USGS Map	☒	☐
Administrative Report 1.1	☒	☐	Affected Landowners Map	☐	☒
SPIF	☒	☐	Landowner Disk or Labels	☐	☒
Core Data Form	☒	☐	Buffer Zone Map	☐	☒
Summary of Application (PLS)	☒	☐	Flow Diagram	☒	☐
Public Involvement Plan Form	☐	☒	Site Drawing	☒	☐
Technical Report 1.0	☒	☐	Original Photographs	☐	☒
Technical Report 1.1	☒	☐	Design Calculations	☐	☒
Worksheet 2.0	☒	☐	Solids Management Plan	☐	☒
Worksheet 2.1	☒	☐	Water Balance	☐	☒
Worksheet 3.0	☒	☐			
Worksheet 3.1	☒	☐			
Worksheet 3.2	☒	☐			
Worksheet 3.3	☒	☐			
Worksheet 4.0	☒	☐			
Worksheet 5.0	☒	☐			
Worksheet 6.0	☒	☐			
Worksheet 7.0	☒	☐			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: 77352

Check/Money Order Amount: 2,015.00

Name Printed on Check: TCEQ

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 11060001

EPA I.D. (TPDES only): TX 0057436

Expiration Date: December 21, 2025

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

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

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

City of Buda

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

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

CN: CN600739866

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

Prefix: Mr. Last Name, First Name: Grau, Micah

Title: City Manager Credential: Click to enter text.

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

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

Guadalupe-Blanco River Authority

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

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

CN: 601180565

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

Prefix: Mr. Last Name, First Name: Nichols, Darrell

Title: General Manager/CEO Credential: Click to enter text.

Provide a brief description of the need for a co-permittee: City of Buda owns the facility; GBRA is the operator of the facility.

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. Form 10400

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Mann, Jesi

Title: Assistant Division Manager Credential: Click to enter text.

Organization Name: Guadalupe-Blanco River Authority

Mailing Address: 1431 Satterwhite Rd. City, State, Zip Code: Buda, Texas, 78610 Phone No.: (512)757-6524 E-mail Address: jmann@gbra.org

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr. Last Name, First Name: Rumbaugh, Martin

Title: Senior Project Manager Credential: P.E.

Organization Name: AECOM

Mailing Address: 13640 Briarwick Dr Suite 200 City, State, Zip Code: Austin, Texas, 78729

Phone No.: (512)4577728 E-mail Address: martin.rumbaugh@aecom.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Mann, Jesi

Title: Assistant Division Manager Credential: Click to enter text.

Organization Name: Guadalupe-Blanco River Authority

Mailing Address: 1431 Satterwhite Rd. City, State, Zip Code: Buda, Texas, 78610

Phone No.: (512)757-6524 E-mail Address: jmann@gbra.org

B. Prefix: Mr. Last Name, First Name: Montaña, Eduardo

Title: Division Manager Credential: Click to enter text.

Organization Name: Guadalupe-Blanco River Authority

Mailing Address: 1431 Satterwhite Rd. City, State, Zip Code: Buda, Texas, 78610

Phone No.: (830) 379-5822 E-mail Address: emontana@gbra.org

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Ms. Last Name, First Name: Davidson, Kristin

Title: Accounting Specialist III Credential: Click to enter text.

Organization Name: Guadalupe-Blanco River Authority

Mailing Address: 2225 E. Common Street City, State, Zip Code: New Braunfels, Texas, 78130

Phone No.: (830) 379-5822 E-mail Address: Kdavidson@gbra.org

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

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

Prefix: Ms. Last Name, First Name: Ramirez, Tricia

Title: Executive Assistant Credential: Click to enter text.

Organization Name: Guadalupe-Blanco River Authority

Mailing Address: 2225 E. Common Street City, State, Zip Code: New Braunfels, Texas 78130

Phone No.: (830) 379-5822 E-mail Address: Tramirez@gbra.org

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Newman, Mary

Title: Executive Assistant Credential: Click to enter text.

Organization Name: Guadalupe-Blanco River Authority

Mailing Address: 2225 E. Common Street City, State, Zip Code: New Braunfels, Texas 78130

Phone No.: (830) 379-5822 E-mail Address: Mnewman@gbra.org

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms. Last Name, First Name: Newman, Mary

Title: Executive Assistant Credential: Click to enter text.

Organization Name: Guadalupe-Blanco River Authority

Mailing Address: 2225 E. Common Street City, State, Zip Code: New Braunfels, Texas 78130

Phone No.: (830) 379-5822 E-mail Address: Mnewman@gbra.org

D. Public Viewing Information

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

Public building name: Buda Public Library

Location within the building: Circulation Desk

Physical Address of Building: 405 E. Loop St.

City: Buda County: Hays

Contact (Last Name, First Name): Hodges, Melinda

Phone No.: (512) 295-5899 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

3. Do the students at these schools attend a bilingual education program at another location?

   ☐ Yes ☒ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?

   ☐ Yes ☒ No

5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

F. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS, and include as an attachment.

Attachment: Attachment D - TCEQ FORM 20972

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 101703288

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

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

City of Buda Wastewater Treatment Plant

C. Owner of treatment facility: City of Buda

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

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

Prefix: Click to enter text. Last Name, First Name: City of Buda

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

Organization Name: Click to enter text.

Mailing Address: City of Buda, 405 E. Loop St. City, State, Zip Code: Buda, Texas, 78610

Phone No.: (512)3120084 E-mail Address: micah.grau@budatx.gov

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: Click to enter text. Last Name, First Name: Not Applicable

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

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

Prefix: Click to enter text. Last Name, First Name: Not Applicable

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Buda, Texas

County in which the outfalls(s) is/are located: Hays County

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

☐ Yes ☒ No

If **yes**, indicate by a check mark if:

☐ Authorization granted ☐ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt. Not Applicable

Attachment: Click to enter text.

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Not Applicable

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

Not Applicable

B. City nearest the disposal site: Not Applicable

C. County in which the disposal site is located: Not Applicable

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

Not Applicable

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Not Applicable

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: Martin Rumbaugh, P.E., of AECOM, was employed by TCEQ's predecessor agencies, Texas Water Commission and Texas Natural Resource Conservation Commission, during 1993-1994

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify:

- Attachment A – Core Data Forms (TCEQ-10400)
- Attachment B – USGS Map (TCEQ 10053 Domestic Administrative Report 1.0, Section 13)
- Attachment C – Supplemental Permit Information Form (TCEQ-20971)
  - Attachment C.1 - USGS Map (SPIF Item 5)
  - Attachment C.2 – General Location Map (SPIF Item 5)
- Attachment D – Plain Language Summary (TCEQ-20972)

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0011060001

Applicant: City of Buda

Certification:

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

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

Signatory name (typed or printed): Micah Grau

Signatory title: City Manager

Signature: _____ Date: June 17, 2025

(Use blue ink)

Subscribed and Sworn to before me by the said Micah Grau

on this 17th day of June, 20 25.

My commission expires on the 27th day of February, 20 28.

_____

Notary Public

[SEAL]

CHRISTINA MICHELLE AGUILAR
Notary Public, State of Texas
Comm. Expires 02-27-2028
Notary ID 134783714

Hays

County, Texas

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0011060001

Applicant: Guadalupe-Blanco River Authority

Certification:

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

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

Signatory name (typed or printed): Darrell Nichols

Signatory title: General Manager/CEO

Signature: _____ Date: 11/17/25

(Use blue ink)

Subscribed and Sworn to before me by the said Darrell Nichols

on this 17th day of November, 2025.

My commission expires on the 19th day of May, 2029.

_____

Notary Public

Mary C Newman
My Commission Expires
5/19/2029
Notary ID 5132625

[SEAL]

_____

County, Texas

NOT APPLICABLE

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications. N/A - Renewal

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

C. ☐ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).

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

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

☐ Yes ☐ No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

☐ At least one original photograph of the new or expanded treatment unit location

☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☐ At least one photograph of the existing/proposed effluent disposal site

☐ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

☐ Ownership

☐ Restrictive easement

☐ Nuisance odor control

☐ Variance

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

☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Attachment C – Supplemental Permit Information Form (TCEQ-20971)

- Attachment C.1 - USGS Map (SPIF Item 3)
- Attachment C.2 – General Location Map (SPIF Item 5)

ATTACHMENT 1

INDIVIDUAL INFORMATION Not Applicable

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

Electronic Application Submittal ☒ Yes
(See application submittal requirements on page 23 of the instructions.)

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

Summary of Application (in Plain Language) ☒ Yes

TCEQ Use Only

TCEQ Core Data Form

Administrative Report 1.0 Attachment A: TCEQ-10400 (City of Buda)

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 600739866		RN 101703288

SECTION II: Customer Information

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

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

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

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

City of Buda

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0800018304	17417072208	741707220	

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

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

13. Independently Owned and Operated?
☒ Yes ☐ No

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

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

15. Mailing Address:							
	City of Buda, 405 E Loop Street, Building 100						
	City	Buda	State	TX	ZIP	78610	ZIP + 4

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	micah.grau@budatx.gov

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 312-0084		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

City of Buda Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	575 County Road 236 (Garison Road)							
	City	Buda	**State**	TX	**ZIP**	78610	**ZIP + 4**	
24. County	Hays							

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

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

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

27. Latitude (N) In Decimal:	30.087736		28. Longitude (W) In Decimal:	97.840718	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
4952		221320	

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

Municipal wastewater treatment plant

34. Mailing Address:	City of Buda, 405 E Loop St, Building 100							
	City	Buda	**State**	TX	**ZIP**	78610	**ZIP + 4**	
35. E-Mail Address:	Micah.Grau@budatx.gov							

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(512) 312-0084		( ) -

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

☐ Dam Safety	☐ Districts	☒ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☒ Other:
				Air Quality HK0127V

SECTION IV: Preparer Information

40. Name:	Martin Rumbaugh, P.E., BCEE	**41. Title:**	Senior Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 457-7728		( ) -	martin.rumbaugh@aecom.com

SECTION V: Authorized Signature

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

Company:	City of Buda	**Job Title:**	City Manager	
Name *(In Print):*	Micah Grau		**Phone:**	(512) 312- **0084**
Signature:			**Date:**	June 17, 2025

TCEQ Use Only

TCEQ Core Data Form

Administrative Report 1.0 Attachment A: TCEQ-10400 (GBRA)

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 601180565		RN 101703288

SECTION II: Customer Information

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

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

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

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

Guadalupe-Blanco River Authority

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
None	None	73-1628865	

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☒ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees

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

13. Independently Owned and Operated?

☒ Yes ☐ No

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

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

15. Mailing Address:	2225 E. Common St.						
	City	New Braunfels TX	State	TX	ZIP	78130	ZIP + 4

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	dnichols@gbra.org

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(830) 379-5822	314	( ) -

SECTION III: Regulated Entity Information

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

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

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

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

City of Buda Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	575 County Road 236 (Garison Rd)							
	City	Buda	**State**	TX	**ZIP**	78610	**ZIP + 4**	
24. County	Hays							

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

25. Description to Physical Location:	

26. Nearest City	**State**	**Nearest ZIP Code**
Buda	TX	78610

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

27. Latitude (N) In Decimal:	30.087736		**28. Longitude (W) In Decimal:**	97.840718	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

Municipal wastewater treatment plant

34. Mailing Address:	City of Buda, P.O. Box 1380							
	City	Buda	**State**	TX	**ZIP**	78610	**ZIP + 4**	

35. E-Mail Address:	

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(830) 379-5822		( ) -

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

☐ Dam Safety	☐ Districts	☒ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☒ Other:
				Air Quality HK0127V

SECTION IV: Preparer Information

40. Name:	Martin Rumbaugh, P.E., BCEE	41. Title:	Senior Project Manager

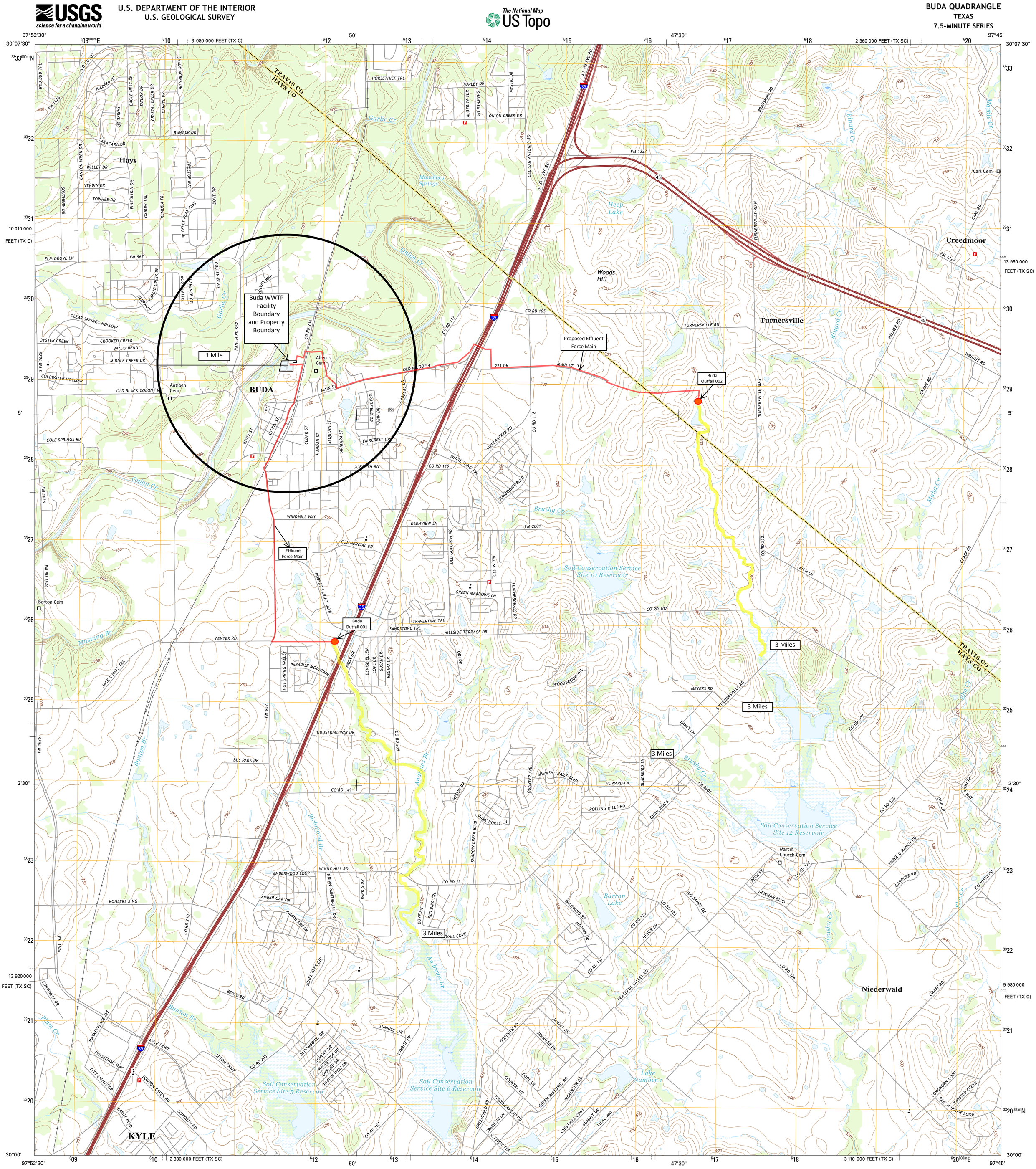
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 457-7728		( ) -	martin.rumbaugh@aecom.com

SECTION V: Authorized Signature

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

Company:	Guadalupe-Blanco River Authority	Job Title:	General Manager/CEO
Name *(In Print)*:	Darrell Nichols	Phone:	(830) 379- 5822
Signature:	Darrell Nichols	Date:	11/17/25

Administrative Report 1.0, Section 13 - Attachment B: USGS Topographical Map -



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

USGS science for a changing world

The National Map US Topo

BUDA QUADRANGLE
TEXAS
7.5-MINUTE SERIES

Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central and central zones)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, August 2014
Roads..... U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2002
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
MN 4° 7′ 73 MILS
GN 0° 36′ 11 MILS

U.S. National Grid
100,000-m Square ID
PU
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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 0.6.19

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

1	2	3
4		5
6	7	8

1 Signal Hill
2 Oak Hill
3 Montopolis
4 Mountain City
5 Creedmoor
6 San Marcos North
7 Uhland
8 Lockhart North

ADJOINING QUADRANGLES

BUDA, TX
2016

NSN. 7643016395271
NGA REF NO. USGSX24K5986

Administrative Report 1.0 Attachment C: TCEQ-20971

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: City of Buda and Guadalupe-Blanco River Authority

   Permit No. WQ00 11060001 EPA ID No. TX 0057436

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

   575 County Road 236 (Garison Road), in Hays County Texas 78610

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): Click here to enter text.

First and Last Name: Jesi Mann

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

Title: Guadalupe-Blanco River Authority

Mailing Address: P.O. Box 216

City, State, Zip Code: Buda, Texas, 78610

Phone No.: 512-312-0526 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: jmann@gbra.org

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

Not Applicable

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.

Outfall 001 to an unnamed tributary; thence to Andrews Branch; thence to Porter Creek in Segment No. 1810 of the Guadalupe River. Outfall 002 – Outfall 002: to an unnamed tributary to SCS Site 11 Reservoir; thence to the SCS Site 12 Reservoir; thence to Brushy Creek; thence to Plum Creek in segment No. 1810 of the Guadalupe River Basin.

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 C.1

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

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):

Construction of treatment facility improvements for all permit phases located within the WWTP site were completed as of October 7, 2022. Construction of the proposed off-site 24" effluent force main to Outfall 002 (required for operation under the Final Phase of the TPDES Permit) will impact approximately 12.90 acres. Excavation depths will be approximately 5 ft to 35 ft. No sealing of caves or other karst features is anticipated.

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

All areas within the WWTP site are previously disturbed and developed as municipal industrial (WWTP) land use. The alignment of the proposed 24" effluent force main to Outfall 002 includes City park land; railroad ROW crossing; public street and highway rights of way; closed municipal landfill; and private subdivision development land uses and vegetation. Impacts have been permitted / coordinated with applicable authorities including TCEQ; USFWS; USACE; THC; UPRR; TXDOT.

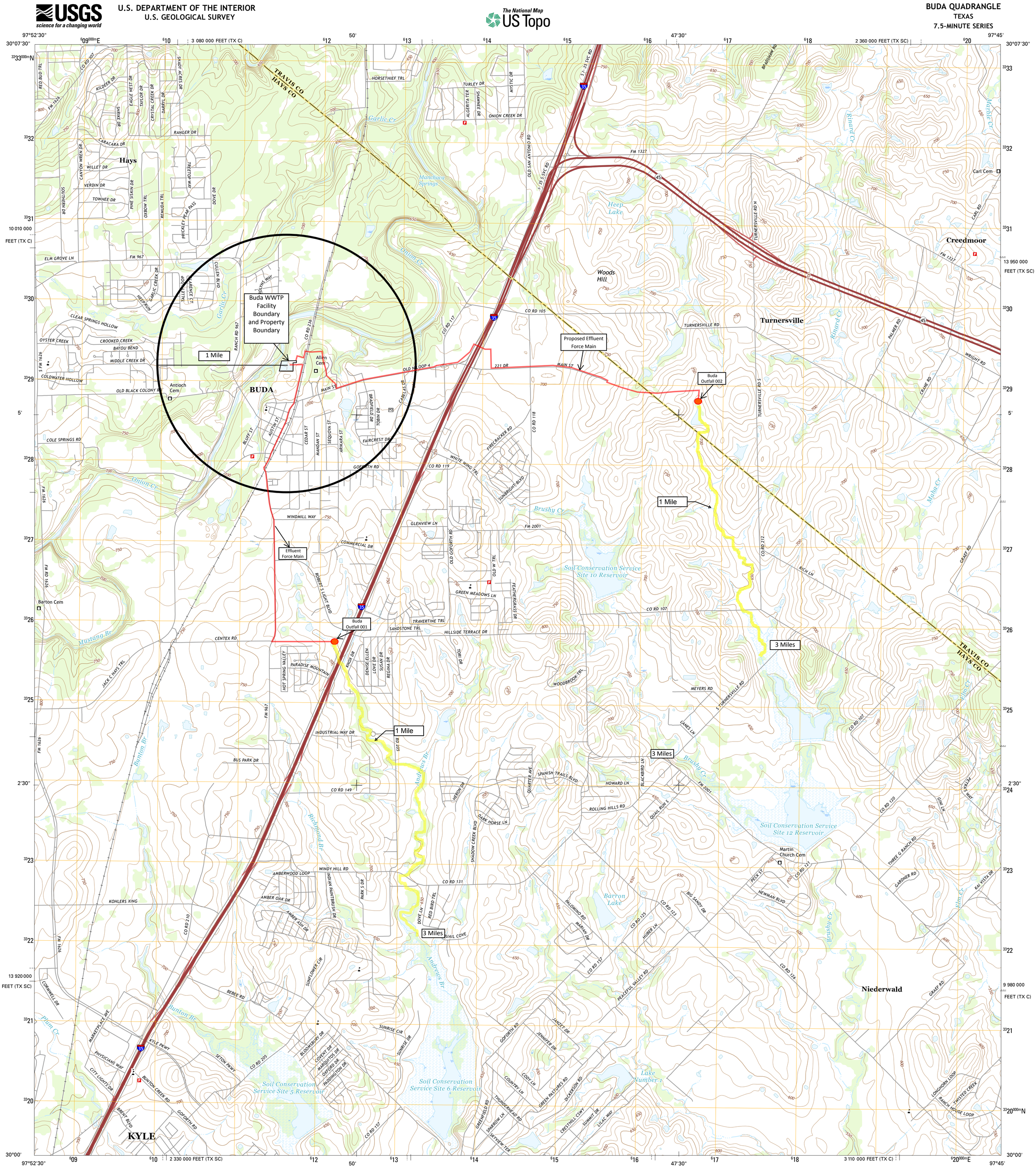
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

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

Not Applicable

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

Not Applicable



Administrative Report 1.0 Attachment C.1: USGS Topographical Map - SPIF Item 3

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

The National Map
US Topo

BUDA QUADRANGLE
TEXAS
7.5-MINUTE SERIES

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central and central zones)

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Imagery..........NAIP, August 2014
Roads..........U.S. Census Bureau, 2014 - 2015
Names..........GNIS, 2015
Hydrography..........National Hydrography Dataset, 2014
Contours..........National Elevation Dataset, 2002
Boundaries..........Multiple sources; see metadata file 1972 - 2015

Wetlands..........FWS National Wetlands Inventory 1977 - 2014

MN
GN
4° 7´
73 MILS
0° 36´
11 MILS
UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
PU
Grid Zone Designation
14R

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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 0.6.19

QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Signal Hill
2 Oak Hill
3 Montopolis
4 Mountain City
5 Creedmoor
6 San Marcos North
7 Uhland
8 Lockhart North

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

BUDA, TX
2016

NSN. 7643016395271
NGA REF NO. USGSX24K5986

Counties: **Bastrop, Hays, Travis**

Districts: **Austin**

Buda WWTF

Texas Department of Transportation

- Unincorporated Community
- County Seat
- Border Crossing
- Cemetery
- Cemetery (Inside City)
- Deep Draft Port
- Shallow Draft Port
- Railroad
- Dam
- River or Stream
- TXDOT District
- Lakes
- Education
- Military
- Airport Runway
- Airport
- Prison
- Parks and Other Public Land

Scale 1:72,224

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit 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.

The City of Buda (CN600739866) owns and GBRA (CN601180565) Operates The City of Buda Wastewater Treatment Plant (RN101703288), an activated sludge process plant operated in the complete mix mode. The facility is located at 575 Garison Road, in Buda, Hays County, Texas 78610. This application is for a renewal of the facility's existing permit to treat a capacity of up to 3.5 million gallons per day of annual average flow.

Discharges from the facility are expected to contain Chloride, Total Dissolved Solids, Sulfate, and Alkalinity ($CaCO_3$), as well as permitted levels of biochemical oxygen demand, total suspended solids, ammonia, and phosphorus. Additional potential pollutants are listed in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, effluent filters, chlorine contact chambers and dechlorination. Biosolids residuals are aerated, thickened in a gravity thickener, dewatered using a belt filter press, and transported to other offsite permitted sludge processing facilities for further treatment.

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.

La Ciudad de Buda (CN601720741 o CN600739866) opera La Planta de Tratamiento de Aguas Residuales de la Ciudad de Buda (RN101703288), una planta de proceso de lodos activados que opera en modo de mezcla completa. La instalación está ubicada en 575 Garison Road, en Buda, Condado de Hays, Texas 78610. Esta aplicación es para una renovación de la autorización existente para tratar una capacidad de 3.5 millones de galones por día de flujo promedio anual.

.

Se espera que las descargas de la instalación contengan cloruro, sólidos totales disueltos, sulfato y alcalinidad (CaCO3), asi como los niveles permitidos de demanda bioquimica de oxigeno, sólidos suspendidos totales, amoniaco, y fósforo. Otros contaminantes potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7. Análisis de contaminantes del efluente tratado y hoja de trabajo doméstica 4.0 en el paquete de solicitud de permiso. Aguas residuales domésticas. está tratado por una planta de proceso de lodo activado y las unidades de tratamiento incluyen una rejilla, una cámara de desarenado, estanques de aireación, clarificadores finales, filtros, cámaras de contacto con cloro y descloración. Los residuales sólidos biologicos se tratan por por aeración, espesador de gravidad, y filtro prensa de bandas, y transportado a otras instalaciones externas autorizadas de procesamiento de lodos para tratamiento adicional.

INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose “operates” in this section for existing facility applications or choose “proposes to operate” for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
8. Choose “is” for an existing facility or “will be” for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.
13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, or major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

Questions or comments concerning this form may be directed to the Water Quality Division’s Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

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 42)

A. Interim I Phase

Design Flow (MGD): 1.5

2-Hr Peak Flow (MGD): 6.0

Estimated construction start date: N/A - superseded

Estimated waste disposal start date: N/A - superseded

B. Interim II Phase

Design Flow (MGD): 1.5

2-Hr Peak Flow (MGD): 6.0

Estimated construction start date: N/A - superseded

Estimated waste disposal start date: N/A - superseded

C. Interim III Phase

Design Flow (MGD): 1.75

2-Hr Peak Flow (MGD): 7.0

Estimated construction start date: Started June 26, 2019, completed October 2022.

Estimated waste disposal start date: Began operation as Interim III Phase October 7, 2022.

D. Final Phase

Design Flow (MGD): 3.5 (Total Discharge Limit - Each outfall is also limited to < 2.0 MGD AAF)

2-Hr Peak Flow (MGD): 14.0 (Total Discharge Limit - Each outfall is also limited to < 5,556 gpm 2-Hr Peak)

Estimated construction start date: Final Phase Treatment Facilities construction started on June 26, 2019 and was completed in October 2022. Effluent force main construction to Outfall 002 (required for operation under Final Phase) is anticipated to start in December 2025.

Estimated waste disposal start date: Effluent Force Main start date + 180 days

E. Current Operating Phase

Provide the startup date of the facility: Interim III Phase, October 7, 2022.

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Exhibit A. Port or pipe diameter at the discharge point: (existing) 20 inches at outfall 001 in all phases, + (future/proposed) 24 inches at outfall 002 in Final phase).

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)
Exhibit B		

C. Process Flow Diagram

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

Attachment: Exhibit C

Section 3. Site Information and Drawing (Instructions Page 43)

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

- Latitude: N/A
- Longitude: N/A

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

- Latitude: N/A
- Longitude: 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: Exhibit D and Exhibit E

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

The Buda WWTP serves the City of Buda's City Limits and Extraterritorial Jurisdiction, with the exceptions of 1) Sunfield MUD and 2) properties with existing on-site sewage facilities (OSSFs). The overall WWTP service area and major sewersheds are shown in Exhibit E, reproduced from the "2017 City of Buda Water and Wastewater Impact Fee Report" by Freese & Nichols, Inc.

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

Collection System Information

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

Section 4. Unbuilt Phases (Instructions Page 44)

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

Construction of all Final Phase Treatment Facilities including effluent pumping facilities for conveyance of effluent to Outfall 002 was completed as of October 7, 2022. However, construction of the 24" effluent force main to Outfall 002 (which is required for operation under the permit Final Phase) was delayed by easement acquisition, and is pending construction start in late 2025. The second outfall and the Final Phase permitted flow capacity continue to be required to meet the City's ongoing rapid growth and development, and to provide redundancy to manage effluent disposal in the event of a failure of the existing 20" force main to Outfall 001.

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: September 7, 2010, Existing/Interim I; July 13, 2018 Interim II and Final Phases

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

The existing permit requires the permittee to submit a summary transmittal letter prior to the construction of the treatment facilities for the 1.75 MGD and 3.50 MGD phases. The following exhibits document compliance with this requirement: Exhibit F provides a copy of the TCEQ approval letter dated September 7, 2010 for construction of the now superseded Interim I/II Phase treatment facilities (1.5 MGD). Exhibit G provides the TCEQ approval letter for construction of the existing Interim III (1.75 MGD) and Final Phase (3.5 MGD) WWTP treatment facilities. Exhibit H provides a copy of the TCEQ approval letter for construction of the proposed effluent force main to proposed Outfall 002, which is required for operation under the permit Final Phase.

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.

Not Applicable

C. Other actions required by the current permit

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

☒ Yes ☐ No

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

Plans and Specifications approval was obtained from TCEQ for the construction of the proposed Interim III and Final Phase improvements on July 13, 2018. Construction of the Interim III and Final Phase facilities commenced on June 26, 2019 and was completed as of October 2022. Construction of the offsite effluent force main to Outfall 002 (required for operation under the permit Final Phase) was delayed by easement acquisition and is anticipated to begin in December, 2025.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Not Applicable

3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

Not Applicable

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.

Not Applicable

E. Stormwater management

1. Applicability

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

2. MSGP coverage

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

☒ Yes ☐ No

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

TXR05 AU97 or TXRNE Click to enter text.

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

☐ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

Not Applicable

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.

Not Applicable

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.

Stormwater runoff originating from rainfall outside the WWTP's flood protection berm is routed around the WWTP site and discharged to Onion Creek in accordance with the TPDES MSGP TXR050000, MSGP Authorization Number TXR05 AU97. Stormwater runoff originating from rainfall inside the WWTP's flood protection berm is routed to a stormwater retention pond inside the WWTP site and held for evaporation. The on-site stormwater retention pond capacity is designed to retain stormwater runoff through the peak runoff intensity of a 100-year design storm event. In the event of runoff exceeding the 100-year design storm, or a series of rainfall events cumulatively exceeding the holding capacity of the retention pond, provisions are included in the WWTP design to allow excess stormwater runoff to be treated through the WWTP treatment process and discharged with the treated WWTP effluent.

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

above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. Request for coverage in individual permit

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

☐ Yes ☒ No

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

Not Applicable

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

Not Applicable

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

2. ***Acceptance of septic waste***

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Not Applicable

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.

Not Applicable

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page

49)

Is the facility in operation?

☒ Yes ☐ No

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

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). **W*ater 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		1	1	Grab	06/26/2025; 04:33 PM
Total Suspended Solids, mg/l		0.60	1	Grab	06/27/2025; 04:51 PM
Ammonia Nitrogen, mg/l		<0.10	1	Grab	06/27/2025; 12:13 PM
Nitrate Nitrogen, mg/l		15.7	1	Grab	06/26/2025; 03:48 PM
Total Kjeldahl Nitrogen, mg/l		<0.20	1	Grab	07/2/2025; 03:57 PM
Sulfate, mg/l		144	1	Grab	06/26/2025; 02:25 PM
Chloride, mg/l		275	1	Grab	06/26/2025; 02:25 PM
Total Phosphorus, mg/l		0.240	1	Grab	06/30/2025; 04:27 PM
pH, standard units		7.3	1	Grab	06/26/2025; 03:46 PM
Dissolved Oxygen*, mg/l		7.5	1	Grab	06/26/2025; 09:55 AM
Chlorine Residual, mg/l		0.260	1	Grab	06/26/2025; 09:55 AM
E.coli (CFU/100ml) freshwater		<1	1	Grab	06/26/2025; 04:33 PM
Entercocci (CFU/100ml) saltwater	N/A				
Total Dissolved Solids, mg/l		744	1	Grab	06/27/2025; 02:52 PM
Electrical Conductivity, µmohs/cm, †	N/A				
Oil & Grease, mg/l		<4.49	1	Grab	07/2/2025; 07:24 AM

Alkalinity ($CaCO_3$)*, mg/l		76.6	1	Grab	06/30/2025; 02:46 PM

*TPDES permits only
†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	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 49)

Facility Operator Name: Exhibit I

Facility Operator's License Classification and Level: Exhibit I

Facility Operator's License Number: Exhibit I

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 50)

A. WWTP's Sewage Sludge or Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☒ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting

☐ Heat Drying

☐ Thermophilic Aerobic Digestion

☐ Beta Ray Irradiation

☐ Gamma Ray Irradiation

☐ Pasteurization

☒ Preliminary Operation (e.g. grinding, de-gritting, blending)

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

☐ Sludge Lagoon

☐ Temporary Storage (< 2 years)

☐ Long Term Storage (>= 2 years)

☐ Methane or Biogas Recovery

☐ Other Treatment Process: Click to enter text.

C. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all sewage sludge or 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
Other	Off-site Third-Party Handler or Preparer	Bulk		N/A: Transported to another facility for further processing	N/A: Transported to another facility for further processing
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): Transport to another permitted WWTP or sludge processing facility. Please see Exhibit J for sludge acceptance agreements.

D. Disposal site

Disposal site name: 1) Austin Wastewater Processing Facility (Wastewater Residuals Management, LLC); 2) JV Dirt and Loam 5RC Compost Facility (TCEQ Permit No. 2310)

TCEQ permit or registration number: 1) MSW-2384; 2) TCEQ Permit No. 2310

County where disposal site is located: 1) Travis County; 2) Travis County

E. Transportation method

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

Name of the hauler: 1) Sheridan Environmental; 2) Wastewater Transport Services, Inc.

Hauler registration number: 1) Permit #24220; 2) Permit #24343

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 52)

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: N/A
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: N/A
- Federal Emergency Management Map:

  Attachment: N/A
- Site map:

  Attachment: N/A

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: N/A

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

N/A

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

  Attachment: Click to enter text.

- Copy of the closure plan

  Attachment: Click to enter text.

- Copy of deed recordation for the site

  Attachment: Click to enter text.

- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.

- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 54)

A. Additional authorizations

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

☒ Yes ☐ No

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

30 TAC 210 effluent reuse authorization (Exhibit K)

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Kylie Gudgell

Title: Lab Administrator

Signature: Kylie Gudgell

Date: 4/17/2025

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications. Not Applicable

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

Click to enter text.

B. Regionalization of facilities

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

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

1. Municipally incorporated areas

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

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

☐ Yes ☐ No ☐ Not Applicable

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

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. Utility CCN areas

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

☐ Yes ☐ No

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

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

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

☐ Yes ☐ No

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

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

A. Current organic loading

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

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

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

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

Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

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

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 58)

A. Existing/Interim I Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

C. Final Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

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

Dechlorination process: Click to enter text.

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

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 58)

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

Attachment: Click to enter text.

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☐ Yes ☐ No

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

Click to enter text.

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

Click to enter text.

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

B. Wind rose

Attach a wind rose: Click to enter text.

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59)

A. Beneficial use authorization

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

☐ Yes ☐ No

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

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 60)

Attach a solids management plan to the application.

Attachment: Click to enter text.

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 63)

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

☐ Yes ☒ No

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

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

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

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

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 63)

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 63)

Name of the immediate receiving waters: Exhibit L and Exhibit M

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Exhibit L and Exhibit M

D. Downstream characteristics

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

☒ Yes ☐ No

If yes, discuss how.

Exhibit L and Exhibit M

E. Normal dry weather characteristics

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

Exhibit L and Exhibit M

Date and time of observation: Exhibit L and Exhibit M

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 65)

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 65)

Date of study: Exhibit N and Exhibit O Time of study: Click to enter text.

Stream name: Click to enter text.

Location: Click to enter text.

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 65)

Number of stream bends that are well defined: Exhibit N and Exhibit O

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

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

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

Click to enter text.

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 65)

Streambed slope of entire reach, from USGS map in feet/feet: Exhibit N and Exhibit O

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

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

Number of lateral transects made: Click to enter text.

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

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

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

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

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT Not Applicable

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

Section 1. Type of Disposal System (Instructions Page 67)

Identify the method of land disposal:

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

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

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

Section 2. Land Application Site(s) (Instructions Page 67)

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type

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

Attachment: Click to enter text.

Section 4. Flood and Runoff Protection (Instructions Page 67)

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

☐ Yes ☒ No

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

Click to enter text.

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

Click to enter text.

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

Click to enter text.

Section 5. Annual Cropping Plan (Instructions Page 67)

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

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

Section 6. Well and Map Information (Instructions Page 68)

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

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

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

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

Attachment: Click to enter text.

Section 7. Groundwater Quality (Instructions Page 68)

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

Attachment: Click to enter text.

Are groundwater monitoring wells available onsite? ☐ Yes ☐ No

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

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

Attachment: Click to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

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

Attachment: Click to enter text.

B. Soil analyses

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

Attachment: Click to enter text.

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

☐ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

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

Click to enter text.

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

Not Applicable

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

Section 1. Surface Disposal (Instructions Page 71)

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

A. Irrigation

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

Design application frequency:

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

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

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

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

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

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

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

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

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

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

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

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

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

Attachment: Click to enter text.

D. Overland flow

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

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

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

Slope length, in feet: Click to enter text.

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

Design application frequency:

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

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 72)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

Not Applicable

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

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

Section 1. Subsurface Application (Instructions Page 73)

Identify the type of system:

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

Application area, in acres: Click to enter text.

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

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

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

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

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

Number of beds: Click to enter text.

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

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

Storage volume, in gallons: Click to enter text.

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

Soil Classification: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

Not Applicable

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

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

Section 1. Administrative Information (Instructions Page 74)

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

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

☐ Yes ☐ No

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

Click to enter text.

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

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

☐ Yes ☐ No

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

Click to enter text.

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

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 74)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

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

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

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

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

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

C. Application rate

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

D. Dosing information

Number of doses per day: Click to enter text.

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

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

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

Number of zones: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 74)

A. Recharge feature plan

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

Attachment: Click to enter text.

B. Soil evaluation

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

Attachment: Click to enter text.

C. Site preparation plan

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

Attachment: Click to enter text.

D. Soil sampling/testing

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

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 75)

A. Site location

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

☐ Yes ☐ No

B. Flood map

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

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 75)

A. Buffer Map

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

Attachment: Click to enter text.

B. Buffer variance request

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 75)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 76)

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

Grab ☒ Composite ☐

Date and time sample(s) collected: 06/26/2025; 09:55 AM SEE EXHIBIT P FOR FULL LAB RESULTS

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile		<1.00	1	50
Aldrin		<0.00001	1	0.01
Aluminum		118	1	2.5
Anthracene		<1.08	1	10
Antimony		0.400	1	5
Arsenic		<0.902	1	0.5
Barium		29.1	1	3
Benzene		<1.01	1	10
Benzidine		<1.62	1	50
Benzo(a)anthracene		<1.08	1	5
Benzo(a)pyrene		<1.08	1	5
Bis(2-chloroethyl)ether		<1.08	1	10
Bis(2-ethylhexyl)phthalate		<2.7	1	10
Bromodichloromethane		8.32	1	10
Bromoform		<1.0	1	10
Cadmium		<1.0	1	1
Carbon Tetrachloride		<1.0	1	2
Carbaryl		<2.69	1	5
Chlordane*		<0.108	1	0.2
Chlorobenzene		<1.0	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane		1.34	1	10
Chloroform		38.7	1	10
Chlorpyrifos		<0.0431	1	0.05
Chromium (Total)		<1.41	1	3
Chromium (Tri) **(*1)**		<3.00	1	N/A
Chromium (Hex)		<3.00	1	3
Copper		4.36	1	2
Chrysene		<1.08	1	5
p-Chloro-m-Cresol		<1.08	1	10
4,6-Dinitro-o-Cresol		<2.16	1	50
p-Cresol		<1.08	1	10
Cyanide **(*2)**		<5	1	10
4,4'- DDD		<0.0108	1	0.1
4,4'- DDE		<0.0108	1	0.1
4,4'- DDT		<0.0108	1	0.02
2,4-D		<0.524	1	0.7
Demeton (O and S)		<0.0539	1	0.20
Diazinon		<0.0539	1	0.5/0.1
1,2-Dibromoethane		<1.0	1	10
m-Dichlorobenzene		<1.0	1	10
o-Dichlorobenzene		<1.0	1	10
p-Dichlorobenzene		<1.0	1	10
3,3'-Dichlorobenzidine		<1.08	1	5
1,2-Dichloroethane		<1.0	1	10
1,1-Dichloroethylene		<1.0	1	10
Dichloromethane		<1.0	1	20
1,2-Dichloropropane		<1.0	1	10
1,3-Dichloropropene		<1.0	1	10
Dicofol		<0.108	1	1
Dieldrin		<0.0108	1	0.02
2,4-Dimethylphenol		<7.57	1	10
Di-n-Butyl Phthalate		<1.08	1	10
Diuron		<0.0485	1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)		<0.000001	1	0.01
Endosulfan II (beta)		<0.0108	1	0.02
Endosulfan Sulfate		<0.0108	1	0.1
Endrin		<0.0108	1	0.02
Epichlorohydrin		<20		---
Ethylbenzene		<1.0	1	10
Ethylene Glycol		NA		---
Fluoride		<500	1	500
Guthion		<0.0539	1	0.1
Heptachlor		<0.00001	1	0.01
Heptachlor Epoxide		<0.00001	1	0.01
Hexachlorobenzene		<1.08	1	5
Hexachlorobutadiene		<1.08	1	10
Hexachlorocyclohexane (alpha)		<0.0108	1	0.05
Hexachlorocyclohexane (beta)		<0.0108	1	0.05
gamma-Hexachlorocyclohexane (Lindane)		<0.0108	1	0.05
Hexachlorocyclopentadiene		<1.08	1	10
Hexachloroethane		<1.08	1	20
Hexachlorophene		<2.75	1	10
4,4'-Isopropylidenediphenol		<10.8		1
Lead		<0.5	1	0.5
Malathion		<0.0539	1	0.1
Mercury		<0.00426	1	0.005
Methoxychlor		<0.0108	1	2
Methyl Ethyl Ketone		<1.0	1	50
Methyl tert-butyl ether		<1.0		---
Mirex		<0.0108	1	0.02
Nickel		2	1	2
Nitrate-Nitrogen		17.3 (mg/L)	1	100
Nitrobenzene		<1.08	1	10
N-Nitrosodiethylamine		<2.7	1	20
N-Nitroso-di-n-Butylamine		<1.03	1	20

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Nonylphenol		<35.6	1	333
Parathion (ethyl)		<0.0539	1	0.1
Pentachlorobenzene		<1.08	1	20
Pentachlorophenol		<1.08	1	5
Phenanthrene		<1.08	1	10
Polychlorinated Biphenyls (PCB's) **(*3)**		<0.2 for all seven PCB congeners	1	0.2
Pyridine		<1.08	1	20
Selenium		<5	1	5
Silver		<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene		<1.08	1	20
1,1,2,2-Tetrachloroethane		<1.0	1	10
Tetrachloroethylene		<1.0	1	10
Thallium		<0.966	1	0.5
Toluene		<1.0	1	10
Toxaphene		<0.108	1	0.3
2,4,5-TP (Silvex)		<0.3	1	0.3
Tributyltin (see instructions for explanation)		<0.00787		0.01
1,1,1-Trichloroethane		<1.0	1	10
1,1,2-Trichloroethane		<1.0	1	10
Trichloroethylene		<1.0	1	10
2,4,5-Trichlorophenol		<1.08	1	50
TTHM (Total Trihalomethanes)		48.36	1	10
Vinyl Chloride		<1.0	1	10
Zinc		25.6	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: 06/26/2025; 09:55 AM

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		<3	1	5
Arsenic		<0.902	1	0.5
Beryllium		<0.162	1	0.5
Cadmium		<1.0	1	1
Chromium (Total)		1.41	1	3
Chromium (Hex)		<3.00	1	3
Chromium (Tri) **(*1)**		N/A	1	N/A
Copper		4.36	1	2
Lead		<0.5	1	0.5
Mercury		<0.00426	1	0.005
Nickel		2	1	2
Selenium		<5	1	5
Silver		<0.5	1	0.5
Thallium		<0.966	1	0.5
Zinc		25.6	1	5
Cyanide **(*2)**		<5	1	10
Phenols, Total		15	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		<2.0	1	50
Acrylonitrile		<1.0	1	50
Benzene		<1.0	1	10
Bromoform		<1.0	1	10
Carbon Tetrachloride		<1.0	1	2
Chlorobenzene		<1.0	1	10
Chlorodibromomethane		1.34		10
Chloroethane		<1.0	1	50
2-Chloroethylvinyl Ether		<1.0	1	10
Chloroform		38.7	1	10
Dichlorobromomethane [Bromodichloromethane]		8.32	1	10
1,1-Dichloroethane		<1.0	1	10
1,2-Dichloroethane		<1.0	1	10
1,1-Dichloroethylene		<1.0	1	10
1,2-Dichloropropane		<1.0	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]		<1.0	1	10
1,2-Trans-Dichloroethylene		<1.0	1	10
Ethylbenzene		<1.0	1	10
Methyl Bromide		<1.0	1	50
Methyl Chloride		<1.0	1	50
Methylene Chloride		<1.0	1	20
1,1,2,2-Tetrachloroethane		<1.0	1	10
Tetrachloroethylene		<1.0	1	10
Toluene		<1.0	1	10
1,1,1-Trichloroethane		<1.0	1	10
1,1,2-Trichloroethane		<1.0	1	10
Trichloroethylene		<1.0	1	10
Vinyl Chloride		<1.0	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		<1.08	1	10
2,4-Dichlorophenol		<1.08	1	10
2,4-Dimethylphenol		<7.57	1	10
4,6-Dinitro-o-Cresol		<2.16	1	50
2,4-Dinitrophenol		<2.16	1	50
2-Nitrophenol		<1.08	1	20
4-Nitrophenol		<1.08	1	50
P-Chloro-m-Cresol		<1.08	1	10
Pentalchlorophenol		<1.08	1	5
Phenol		15	1	10
2,4,6-Trichlorophenol		<1.08	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		<1.08	1	10
Acenaphthylene		<1.08	1	10
Anthracene		<1.08	1	10
Benzidine		<1.62	1	50
Benzo(a)Anthracene		<1.08	1	5
Benzo(a)Pyrene		<1.08	1	5
3,4-Benzofluoranthene		<1.08	1	10
Benzo(ghi)Perylene		<2.16	1	20
Benzo(k)Fluoranthene		<1.08	1	5
Bis(2-Chloroethoxy)Methane		<1.08	1	10
Bis(2-Chloroethyl)Ether		<1.08	1	10
Bis(2-Chloroisopropyl)Ether		<1.08	1	10
Bis(2-Ethylhexyl)Phthalate		<2.7	1	10
4-Bromophenyl Phenyl Ether		<1.08	1	10
Butyl benzyl Phthalate		<1.08	1	10
2-Chloronaphthalene		<1.08	1	10
4-Chlorophenyl phenyl ether		<1.08	1	10
Chrysene		<1.08	1	5
Dibenzo(a,h)Anthracene		<1.08	1	5
1,2-(o)Dichlorobenzene		<3.78	1	10
1,3-(m)Dichlorobenzene		<1.08	1	10
1,4-(p)Dichlorobenzene		<1.08	1	10
3,3-Dichlorobenzidine		<1.08	1	5
Diethyl Phthalate		<1.08	1	10
Dimethyl Phthalate		<1.08	1	10
Di-n-Butyl Phthalate		<1.08	1	10
2,4-Dinitrotoluene		<1.08	1	10
2,6-Dinitrotoluene		<1.08	1	10
Di-n-Octyl Phthalate		<2.7	1	10
1,2-Diphenylhydrazine (as Azo-benzene)		<1.08	1	20
Fluoranthene		<1.08	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene		<1.08	1	10
Hexachlorobenzene		<1.08	1	5
Hexachlorobutadiene		<1.08	1	10
Hexachlorocyclo-pentadiene		<10.0	1	10
Hexachloroethane		<1.08	1	20
Indeno(1,2,3-cd)pyrene		<2.16	1	5
Isophorone		<1.08	1	10
Naphthalene		<1.08	1	10
Nitrobenzene		<1.08	1	10
N-Nitrosodimethylamine		<1.08	1	50
N-Nitrosodi-n-Propylamine		<1.03	1	20
N-Nitrosodiphenylamine		<1.08	1	20
Phenanthrene		<1.08	1	10
Pyrene		<1.08	1	10
1,2,4-Trichlorobenzene		<1.08	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		<0.00001	1	0.01
alpha-BHC (Hexachlorocyclohexane)		<0.0108	1	0.05
beta-BHC (Hexachlorocyclohexane)		<0.0108	1	0.05
gamma-BHC (Hexachlorocyclohexane)		<0.0108	1	0.05
delta-BHC (Hexachlorocyclohexane)		<0.0108	1	0.05
Chlordane		<0.108	1	0.2
4,4-DDT		<0.0108	1	0.02
4,4-DDE		<0.0108	1	0.1
4,4,-DDD		<0.0108	1	0.1
Dieldrin		<0.0108	1	0.02
Endosulfan I (alpha)		<0.00001	1	0.01
Endosulfan II (beta)		<0.0108	1	0.02
Endosulfan Sulfate		<0.0108	1	0.1
Endrin		<0.0108	1	0.02
Endrin Aldehyde		<0.0108	1	0.1
Heptachlor		<0.00001	1	0.01
Heptachlor Epoxide		<0.00001	1	0.01
PCB-1242		<0.20	1	0.2
PCB-1254		<0.20	1	0.2
PCB-1221		<0.20	1	0.2
PCB-1232		<0.20	1	0.2
PCB-1248		<0.20	1	0.2
PCB-1260		<0.20	1	0.2
PCB-1016		<0.20	1	0.2
Toxaphene		<0.108	1	0.3

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

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

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

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

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

Common Name Erbon, CASRN 136-25-4

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

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

N/A, Not applicable

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

☐ Yes ☒ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of**1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

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: Biomonitoring requirements in the permit have been conducted at the frequency required in the permit. All results of biomonitoring tests are reported to TCEQ.

48-hour Acute: Biomonitoring requirements in the permit have been conducted at the frequency required in the permit. All results of biomonitoring tests are reported to TCEQ.

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 87)

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: 0

Average Daily Flows, in MGD: 0

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)?

☐ Yes ☒ No

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

Click to enter text.

C. Treatment plant pass through

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

☐ Yes ☒ No

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

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☒ Yes ☐ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

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

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

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)

A. Substantial modifications

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

☐ Yes ☒ No

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

Click to enter text.

B. Non-substantial modifications

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

☐ Yes ☒ No

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

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
N/A				
N/A				
N/A				
N/A				
N/A				
N/A				

D. Industrial user interruptions

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

☐ Yes ☒ No

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

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 88)

A. General information

Company Name: N/A

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

Click to enter text.

C. Product and service information

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

Click to enter text.

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: Click to enter text.

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☒ No

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

Click to enter text.

WORKSHEET 7.0

Not Applicable

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

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

Section 1. General Information (Instructions Page 90)

1. TCEQ Program Area

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

Program ID: Click to enter text. ☐

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

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

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

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

Latitude: Click to enter text.

Longitude: Click to enter text.

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

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

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

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

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

8. **Water Well Driller/Installer**

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

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

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

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

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

4. Surface Elevation: Click to enter text.

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

6. Injection Zone Depth: Click to enter text.

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

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

Name: Click to enter text.

Thickness: Click to enter text.

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

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

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

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

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

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

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

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

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

17. Sampling frequency: Click to enter text.

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

Section 5. Site History

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

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

Class V Injection Well Designations

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

Technical Report 1.0 Exhibit A – Treatment Process Description

Interim I / Interim II Phases (1.5 MGD, 2-Hour Peak Flow 6.0 MGD, Outfall 001 Only)

(Note - superseded. Construction of all treatment units required for operation at the Final Permit Phase was completed as of October 7, 2022. The Buda WWTP has operated under the Interim III Permit Phase since October 7, 2022, pending completion of the proposed 24" effluent force main to Outfall 002).

The Buda WWTP uses the activated sludge treatment process, designed for single-sludge nitrification, with fine bubble aeration. The activated sludge process is operated in complete-mix mode. The treatment process also includes alum addition for phosphorus removal, chlorine disinfection, effluent filtration, and dechlorination using sodium bisulfite solution. Effluent is pumped through a 20-inch force main to Outfall 001.

Interim I / Interim II Phases (1.5 MGD) treatment process units in order of flow through the WWTP include:

- Headworks with two mechanical screens and one manual screen;
- Influent flow measurement (Parshall flume with ultrasonic open-channel flow meter);
- One vortex grit basin with grit pump and grit washer/classifier;
- Headworks biofilters odor control system;
- Influent lift station;
- Influent flow splitter;
- Three aeration basins with fine-bubble diffusers;
- Four process aeration blowers;
- Alum storage facility and feed system;
- Clarifier flow splitter;
- Two secondary clarifiers
- Return activated sludge (RAS) pump station;
- Intermediate flow measurement for chemical dosing (Parshall flume with ultrasonic flow meter);
- Three chlorine contact basins with fine-bubble diffusers for post-aeration;
- Chlorine storage building and chlorine feed system with an emergency scrubber;
- Three automatic-backwashing sand-media effluent filters;
- Effluent and NPW/Reuse pump station;
- Sodium bisulfite storage and feed system; and,
- Effluent flow measurement (closed-pipe ultrasonic flow meter).

Sludge processing units and ancillary facilities include:

- Waste activated sludge (WAS) pump station;
- Gravity thickener;
- Four aerated sludge holding basins;
- Four sludge aeration / effluent re-aeration blowers
- Decanted sludge pumping station;
- Sludge dewatering facility with two-meter belt filter press and polymer feed system;
- Sludge drying beds with wedgewater-tile media;
- Operations building;
- Emergency influent holding pond;
- Plant drain lift station;
- Plant non-potable water system; and,
- Flood protection berms, stormwater holding pond, and storm drains.

Interim III Phase (1.75 MGD, 2-Hour Peak Flow 7.0 MGD, Existing Outfall 001 Only)

The Interim III Phase has been in operation since October 7, 2022. Hydraulic capacity improvements have been made to the existing Buda WWTP treatment facilities in accordance with the *Capacity Assessment and Rerating Recommendations for the Buda WWTP* report dated March 20, 2015 and TCEQ's approval letter for the proposed capacity rerating dated July 3, 2015. The Interim III Phase facilities uses the activated sludge treatment process for single-sludge nitrification, with fine bubble aeration, operated in complete-mix mode. The Interim III Phase treatment process include alum addition for phosphorus removal, chlorine disinfection, effluent filtration, and dechlorination using sodium bisulfite solution. Effluent is pumped through an existing 20-inch force main to existing Outfall 001.

(Note - the description below is of the treatment process units designed and required for operation at the Interim III Permit Phase, however construction of all additional treatment units required for operation at the Final Permit Phase was completed as of October 7, 2022.)

Interim III Phase (1.75 MGD) treatment process units in order of flow through the WWTP include:

- Headworks with two mechanical screens and one manual screen;
- Influent flow measurement (Parshall flume with ultrasonic open-channel flow meter);
- One vortex grit basin with grit pump and grit washer/classifier;
- Headworks biofilters odor control system;
- Influent lift station (with expanded firm pump capacity to convey proposed 2-hour peak flow);
- Influent flow splitter;
- Three aeration basins with fine-bubble diffusers;
- Four process aeration blowers;
- Alum storage facility and feed system;
- Clarifier flow splitter;
- Two secondary clarifiers
- Return activated sludge (RAS) pump station;
- Intermediate flow measurement for chemical dosing (Parshall flume with ultrasonic flow meter);
- Three chlorine contact basins with fine-bubble diffusers for post-aeration (with weir elevations adjusted to provide 20 minutes contact time at proposed 2-hour peak flow 7.0 MGD);
- Chlorine storage building and chlorine feed system with an emergency scrubber;
- Three automatic-backwashing sand-media effluent filters;
- Effluent and NPW/Reuse pump station (with expanded firm pumping capacity to convey proposed 2-hour peak flow);
- Sodium bisulfite storage and feed system;
- Effluent flow measurement (closed-pipe ultrasonic flow meter); and,
- Piping improvements will be constructed to eliminate air binding at vertical 90 degree downward bends at the influent flow splitter, aeration basin effluent launders, and clarifier drop boxes, as recommended in the rerating study and approved by TCEQ.

The Buda WWTP Interim II Phase (1.75 MGD) sludge processing units and ancillary facilities include:

- Waste activated sludge (WAS) pump station;
- Gravity thickener;
- Four aerated sludge holding basins;
- Four sludge aeration / effluent re-aeration blowers
- Decanted sludge pumping station;
- Sludge dewatering facility with two-meter belt filter press and polymer feed system;
- Sludge drying beds with wedgewater-tile media;
- Operations building;
- Plant drain lift station;
- Plant non-potable water system; and,
- Flood protection berms, stormwater holding pond, and storm drains.

Final Phase (3.5 MGD, 2-Hour Peak Flow 14.0 MGD, Existing Outfall 001 plus Proposed Outfall 002)

The Buda WWTP Final Phase will use the activated sludge treatment process, designed for single-sludge nitrification, with fine bubble aeration, operated in complete-mix mode. The Final Phase treatment process also will include alum addition for phosphorus removal, chlorine disinfection, effluent filtration, and dechlorination using sodium bisulfite solution. Effluent will be pumped through an existing 20-inch force main to existing Outfall 001, and will also be pumped through a proposed 24-inch force main to proposed Outfall 002.

(Note: Construction of all treatment units described below was completed as of October 7, 2022. The Buda WWTP has operated under the Interim III permit phase since October, 2022, pending completion of the proposed offsite 24" effluent force main to Outfall 002 which is required for operation at the permit Final Phase.

Final Phase (3.5 MGD) treatment process units in order of flow through the WWTP include:

- Headworks with four mechanical screens and one manual screen;
- Influent flow measurement (two Parshall flumes with ultrasonic open-channel flow meters);
- Two vortex grit basins with two grit pumps and one grit washer/classifier;
- Two headworks biofilters odor control systems;
- Influent lift station (with expansion of firm pump capacity to convey proposed 2-hour peak flow);
- Influent flow splitter (expanded with capacity to convey proposed 2-hour peak flow and RAS);
- Six aeration basins with fine-bubble diffusers;
- Four process aeration blowers with structure and conduit for four future additional blowers;
- Alum storage facility and feed system;
- Two clarifier flow splitters;
- Four secondary clarifiers
- Two return activated sludge (RAS) pump stations;
- Two intermediate flow measurement points for chemical dosing (Parshall flumes with ultrasonic flow meters);
- Six chlorine contact basins with fine-bubble diffusers for post-aeration;
- Chlorine storage building and chlorine feed system with an emergency scrubber;
- Three automatic-backwashing sand-media effluent filters;
- Two automatic-backwashing cloth-media disk type effluent filters;
- Sodium bisulfite storage and feed system;
- Effluent flow measurement (Parshall flume and open-channel ultrasonic flow meter);
- Dechlorination dosing/contact basin; and,
- Effluent pump station (with firm capacity to convey proposed 2-hour peak flow).

The Buda WWTP Final Phase (3.5 MGD) sludge processing units and ancillary facilities include:

- Waste activated sludge (WAS) pump station;
- Gravity thickener;
- Four aerated sludge holding basins;
- Four sludge aeration / effluent re-aeration blowers
- Decanted sludge pumping station;
- Sludge dewatering facility with two-meter belt filter press and polymer feed system;
- Operations building;
- Plant drain lift station (expanded to accommodate additional treatment process return flows);
- NPW/Reuse pump station;
- Plant non-potable water system; and,
- Flood protection berms, stormwater holding pond, and storm drains.

Interim I Phase / Interim II Phase (1.5 MGD, 6.0 MGD 2-Hour Peak Flow, Existing Outfall 001)		
Type of Unit	No. of Units	Unit Dimensions* (Each Unit)
Automatic Rotary Fine Screen	2	3 HP, 1/4" Openings
Manual Bar Screen	1	2 ft channel width, 3/4" Openings
Vortex Grit Basin	1	10' Dia, 13' Depth
Grit Pumps	1	15 HP
Grit Classifier	1	1 HP
Odor Control Fan	1	3 HP, 500 CFM
Odor Control Biofilters	3	167 CFM
Influent Parshall Flume	1	1'-6" Throat
Influent Lift Station Pumps	2	5 HP
Influent Lift Station Pumps	3	20 HP
Emergency Generator	1	500kW
Influent Flow Splitter	1	5'x5'x12'3", w/ (3) 2' weir gates
Complete Mix/Nitrification Aeration Basins	3	75'x30'x15.5' SWD, w/ ceramic fine bubble aeration diffusers
Process Aeration Blowers	4	75 HP
Alum Storage Tanks	3	2,000 Gal
Alum Feed Pumps	4	25 gph
Clarifier Flow Splitter	1	20'4"x6'x13'4", w/ (2) 6' fixed weirs and (2) 2'x2' slide gates
Secondary Clarifiers	2	60' Dia., 12' SWD w/ 1 HP drive
RAS Pumps	4	7.5 HP
Chlorine Feed System (Flow-Paced Automatic Gas Vacuum)	1	200 ppd rotameter/ejector, up to 4 connected ton containers
Emergency Scrubber (NaOH wet scrubber)	1	Sized for release of 1 ton container Cl2
Chlorine Contact Basins	3	195' (serpentine) x 4.5' x 4.5' SWD, w/ postaeration
Flow Pacing Parshall Flume	1	1' Throat Width
Effluent Filters	3	Traveling Bridge Automatic Backwash, 17' x 50' x 3.25' SWD
Effluent Pumps	3	100 HP
Dechlorination System Pumps (Flow-Paced Liquid Feed, Sodium Bisulfite Solution)	4	2.5 gph
Effluent Flow Meter	1	Ultrasonic Closed Pipe, 20" Dia.
NPW/Reuse Pumps	2	30 HP
NPW Flow Meter	1	Ultrasonic Closed Pipe, 14" Dia.
NPW/Reuse Hydropneumatic Tank	1	10,000 gallons
Plant Drain Lift Station Pumps	2	5 HP
WAS Pump Station Pumps	2	5 HP
Sludge Thickener	2	14' Dia. x 14.5' SWD
Aerated Sludge Holding Basin	2	21.3' x 28.7' x 15.5' /w coarse bubble
Aerated Sludge Holding Basin	2	17'x36'x15.5' /w coarse bubble
Sludge /Postaeration Blowers	4	40 HP
Sludge Dewatering Pumps	2	5 HP
Polymer Feed System	1	8 gph
Sludge Drying Beds - Wedge Wire	2	20' x 40'
Belt Filter Press	1	2 meter belt

Interim III Phase (1.75 MGD, 7.0 MGD 2-Hour Peak Flow, Existing Outfall 001)		
Type of Unit	No. of Units	Unit Dimensions* (Each Unit)
Automatic Rotary Fine Screen	2	3 HP, 1/4" Openings
Manual Bar Screen	1	2 ft channel width, 3/4" Openings
Vortex Grit Basin	1	10' Dia, 13' Depth
Grit Pumps	1	15 HP
Grit Classifier	1	1 HP
Odor Control Fan	1	3 HP, 500 CFM
Odor Control Biofilters	3	167 CFM
Influent Parshall Flume	1	1'-6" Throat
Influent Lift Station Pumps	3	35 HP
Influent Lift Station Pumps	2	20 HP
Emergency Generator [1]	1	500kW
Influent Flow Splitter [2]	1	5'x5'x12'3", w/ (3) 2' weir gates
Complete Mix/Nitrification Aeration Basins [2]	3	75'x30'x15.5' SWD, w/ ceramic fine bubble aeration diffusers
Process Aeration Blowers	4	75 HP
Alum Storage Tanks	3	2,000 Gal
Alum Feed Pumps	4	25 gph
Clarifier Flow Splitter	1	20'4"x6'x13'4", w/ (2) 6' fixed weirs and (2) 2'x2' slide gates
Secondary Clarifiers [2]	2	60' Dia., 12' SWD w/ 1 HP drive
RAS Pumps	4	7.5 HP
Chlorine Feed System (Flow-Paced Automatic Gas Vacuum)	1	200 ppd rotameter/ejector, up to 4 connected ton containers
Emergency Scrubber (NaOH wet scrubber)	1	Sized for release of 1 ton container Cl2
Chlorine Contact Basins [3]	3	195' (serpentine) x 4.5' x 4.6' SWD, w/ postaeration
Flow Pacing Parshall Flume	1	1' Throat Width
Effluent Filters	3	Traveling Bridge Automatic Backwash, 17' x 50' x 3.25' SWD
Effluent Pumps [4]	3	100 HP (+ interconnection to use up to two 30-HP NPW pumps)
Dechlorination System Pumps (Flow-Paced Liquid Feed, Sodium Bisulfite Solution)	4	2.5 gph
Effluent Flow Meter	1	Ultrasonic Closed Pipe, 20" Dia.
NPW/Reuse Pumps	3	30 HP
NPW Flow Meter	1	Ultrasonic Closed Pipe, 14" Dia.
NPW/Reuse Hydropneumatic Tank	1	10,000 gallons
Plant Drain Lift Station Pumps	2	5 HP
WAS Pump Station Pumps	2	5 HP
Sludge Thickener	2	14' Dia. x 14.5' SWD
Aerated Sludge Holding Basin	2	21.3' x 28.7' x 15.5' /w coarse bubble
Aerated Sludge Holding Basin	2	17'x36'x15.5' /w coarse bubble
Sludge /Postaeration Blowers	4	40 HP
Sludge Dewatering Pumps	2	5 HP
Polymer Feed System	1	8 gph
Sludge Drying Beds - Wedge Wire	2	20' x 40'
Belt Filter Press	1	2 meter belt

[1] An Influent Emergency Holding Pond was removed and replaced by emergency generator capacity / hydraulic capacity

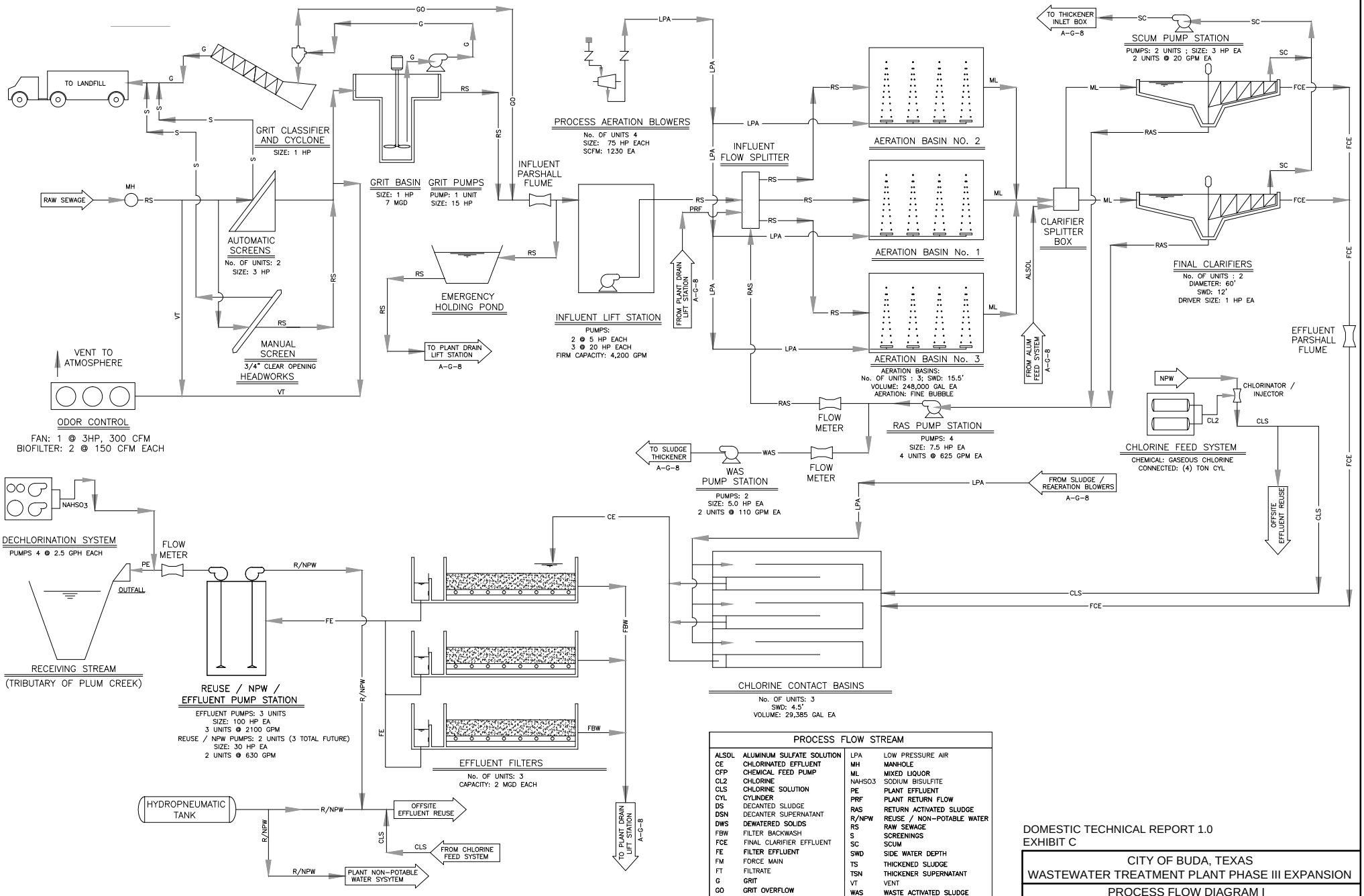
[1] Existing Downturned 90 degree elbows was modified with provisions for air release

[2] Chlorine Contact Basins effluent weir elevations have been adjusted to provide 20 minutes contact time at 7.0 MGD

[3] Connection between effluent pumps and NPW pumps discharge headers, with check valve and pressure sustaining valve

Final Phase (3.5 MGD, 14.0 MGD 2-Hour Peak Flow, Outfall 001 Plus Outfall 002)		
Type of Unit	No. of Units	Unit Dimensions* (Each Unit)
Automatic Rotary Fine Screen	4	3 HP, 1/4" Openings
Manual Bar Screen	1	2 ft channel width, 3/4" Openings
Vortex Grit Basin	2	10' Dia, 13' Depth
Grit Pumps	2	15 HP
Grit Classifier	1	1 HP
Odor Control Fan	2	3 HP, 500 CFM
Odor Control Biofilters	6	167 CFM
Influent Parshall Flume	2	1'-6" Throat
Influent Lift Station Pumps	3	35 HP
Influent Lift Station Pumps	2	20 HP
Influent Lift Station Pumps	2	60 HP
Emergency Generator	2	500kW
Influent Flow Splitter [1]	1	5'x10'x12'3", w/ (6) 2' weir gates
Complete Mix/Nitrification Aeration Basins	3	75'x30'x15.5' SWD, w/ ceramic fine bubble aeration diffusers
Process Aeration Blowers	4	75 HP
Alum Storage Tanks	3	2,000 Gal
Alum Feed Pumps	4	25 gph
Clarifier Flow Splitter	2	20'4"x6'x13'4", w/ (2) 6' fixed weirs and (2) 2'x2' slide gates
Secondary Clarifiers	4	60' Dia., 12' SWD w/ 1 HP drive
RAS Pumps	8	7.5 HP
Chlorine Feed System (Flow-Paced Automatic Gas Vacuum)	2	200 ppd rotameter/ejector, up to 4 connected ton containers
Emergency Scrubber (NaOH wet scrubber)	1	Sized for release of 1 ton container Cl2
Chlorine Contact Basins	6	195' (serpentine) x 4.5' x 4.6' SWD, w/ postaeration
Flow Pacing Parshall Flume	2	1' Throat Width
Effluent Filters	3	Sand Media, Traveling Bridge Automatic Backwash, 17' x 50' x 3.25' SWD
Effluent Filters	2	Cloth Media, Disk Type Automatic Backwash, (12) 6.8 ft dia. disks per unit
Effluent Pumps	3	100 HP
Effluent Pumps	3	250 HP
Dechlorination Pumps (Flow-Paced, Sodium Bisulfite Solution)	4	2.5 gph
Effluent Parshall Flume	1	2' Throat Width, with Ultrasonic Meter
NPW/Reuse Pumps	3	30 HP
NPW Flow Meter	1	Ultrasonic Closed Pipe, 14" Dia.
NPW/Reuse Hydropneumatic Tank	1	10,000 gallons
Plant Drain Lift Station Pumps	2	5 HP
Plant Drain Lift Station Pumps	2	15 HP
WAS Pump Station Pumps	2	5 HP
Sludge Thickener	2	14' Dia. x 14.5' SWD
Aerated Sludge Holding Basin	2	21.3' x 28.7' x 15.5' /w coarse bubble
Aerated Sludge Holding Basin	2	17'x36'x15.5' /w coarse bubble
Sludge /Postaeration Blowers	4	40 HP
Sludge Dewatering Pumps	2	5 HP
Polymer Feed System	1	8 gph
Sludge Drying Beds - Wedge Wire	2	20' x 40'
Belt Filter Press	1	2 meter belt

[1] Existing Influent Flow Splitter to be expanded to spit flow to existing and proposed aeration basins



PROCESS FLOW STREAM			
ALSOL	ALUMINUM SULFATE SOLUTION	LPA	LOW PRESSURE AIR
CE	CHLORINATED EFFLUENT	MH	MANHOLE
CFP	CHEMICAL FEED PUMP	ML	MIXED LIQUOR
CL2	CHLORINE	NAHSO3	SODIUM BISULFITE
CLS	CHLORINE SOLUTION	PE	PLANT EFFLUENT
CYL	CYLINDER	PRF	PLANT RETURN FLOW
DS	DECANTED SLUDGE	RAS	RETURN ACTIVATED SLUDGE
DSN	DECANTER SUPERNATANT	R/NPW	REUSE / NON-POTABLE WATER
DWS	DEWATERED SOLIDS	RS	RAW SEWAGE
FBW	FILTER BACKWASH	S	SCREENINGS
FCE	FINAL CLARIFIER EFFLUENT	SC	SCUM
FE	FILTER EFFLUENT	SWD	SIDE WATER DEPTH
FM	FORCE MAIN	TS	THICKENED SLUDGE
FT	FILTRATE	TSN	THICKENER SUPERNATANT
G	GRIT	VT	VENT
GO	GRIT OVERFLOW	WAS	WASTE ACTIVATED SLUDGE

DOMESTIC TECHNICAL REPORT 1.0
EXHIBIT C

CITY OF BUDA, TEXAS
WASTEWATER TREATMENT PLANT PHASE III EXPANSION

PROCESS FLOW DIAGRAM I
(INTERIM I / INTERIM II PERMIT PHASES, 1.5 MGD)

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AUSTIN, TEXAS 78729
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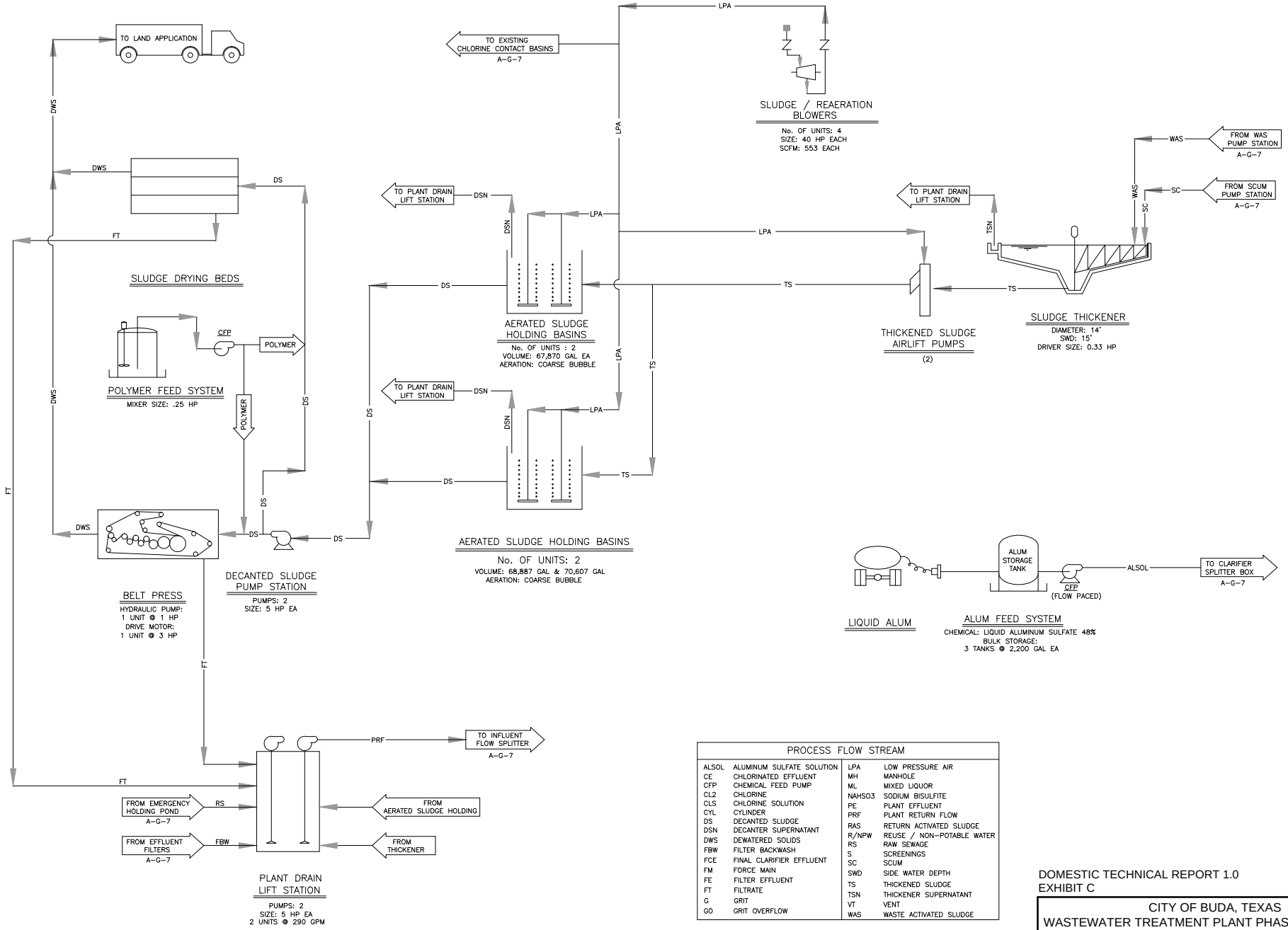

PROCESS FLOW STREAM			
ALSOL	ALUMINUM SULFATE SOLUTION	LPA	LOW PRESSURE AIR
CE	CHLORINATED EFFLUENT	MH	MANHOLE
CFP	CHEMICAL FEED PUMP	ML	MIXED LIQUOR
CL2	CHLORINE	NAHSO3	SODIUM BISULFITE
CLS	CHLORINE SOLUTION	PE	PLANT EFFLUENT
CYL	CYLINDER	PRF	PLANT RETURN FLOW
DS	DECANTED SLUDGE	RAS	RETURN ACTIVATED SLUDGE
DSN	DECANTER SUPERNATANT	R/NPW	REUSE / NON-POTABLE WATER
DWS	DEWATERED SOLIDS	RS	RAW SEWAGE
FBW	FILTER BACKWASH	S	SCREENINGS
FCE	FINAL CLARIFIER EFFLUENT	SC	SCUM
FM	FORCE MAIN	SWD	SIDE WATER DEPTH
FE	FILTER EFFLUENT	TS	THICKENED SLUDGE
FT	FILTRATE	TSN	THICKENER SUPERNATANT
G	GRIT	VT	VENT
GO	GRIT OVERFLOW	WAS	WASTE ACTIVATED SLUDGE

DOMESTIC TECHNICAL REPORT 1.0
EXHIBIT C

CITY OF BUDA, TEXAS
WASTEWATER TREATMENT PLANT PHASE III EXPANSION

PROCESS FLOW DIAGRAM II
(INTERIM I/ INTERIM II PERMIT PHASES, 1.5 MGD)

AECOM TECHNICAL SERVICES INC.
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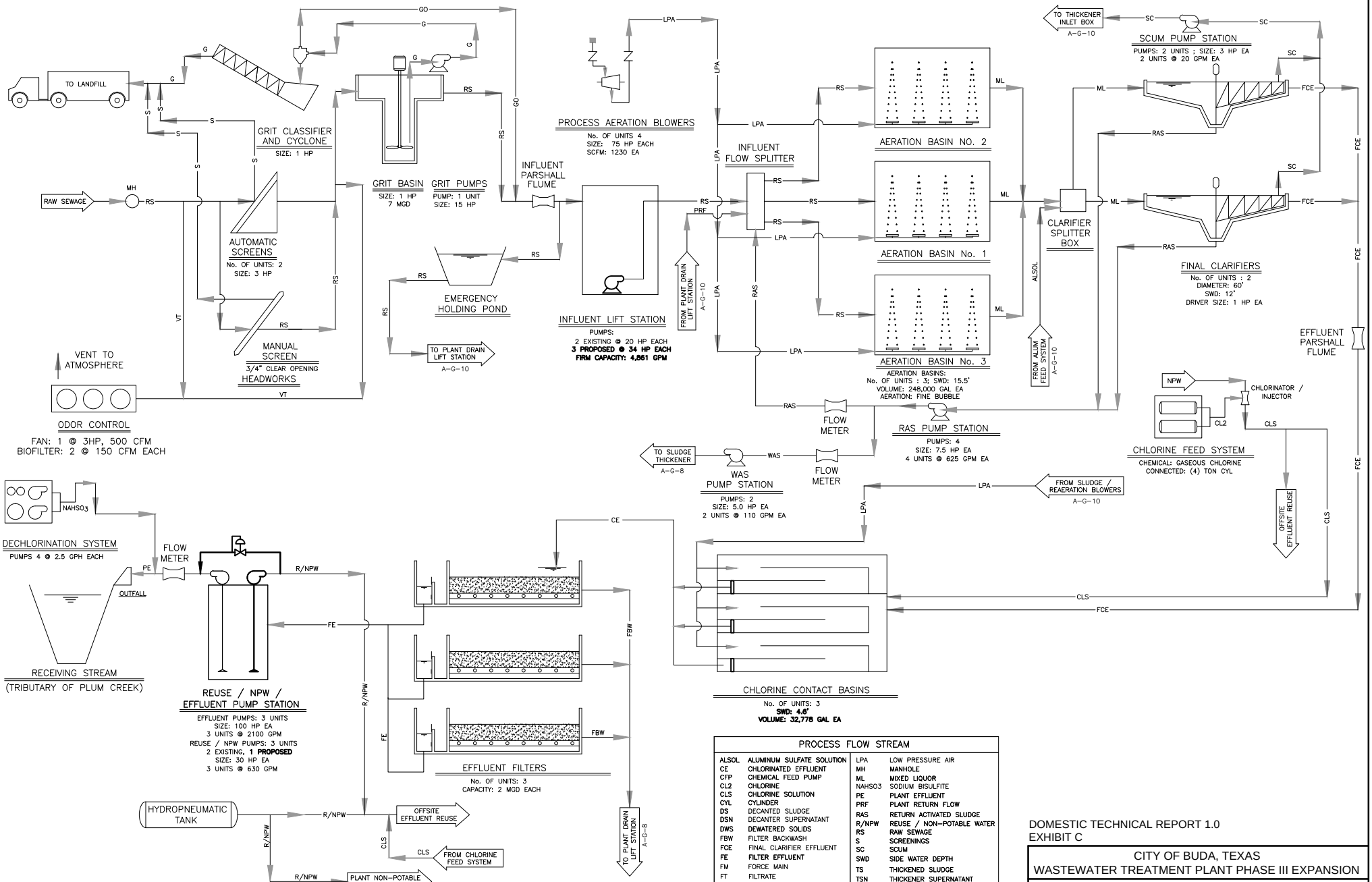
AUGUST 2015



PROCESS FLOW STREAM			
ALSOL	ALUMINUM SULFATE SOLUTION	LPA	LOW PRESSURE AIR
CE	CHLORINATED EFFLUENT	MH	MANHOLE
CFP	CHEMICAL FEED PUMP	ML	MIXED LIQUOR
CL2	CHLORINE	NAHSO3	SODIUM BISULFITE
CLS	CHLORINE SOLUTION	PE	PLANT EFFLUENT
CYL	CYLINDER	PRF	PLANT RETURN FLOW
DS	DECANTED SLUDGE	RAS	RETURN ACTIVATED SLUDGE
DSN	DECANTER SUPERNATANT	R/NPW	REUSE / NON-POTABLE WATER
DWS	DEWATERED SOLIDS	RS	RAW SEWAGE
FBW	FILTER BACKWASH	S	SCREENINGS
FCE	FINAL CLARIFIER EFFLUENT	SC	SCUM
FE	FILTER EFFLUENT	SWD	SIDE WATER DEPTH
FM	FORCE MAIN	TS	THICKENED SLUDGE
FT	FILTRATE	TSN	THICKENER SUPERNATANT
G	GRIT	VT	VENT
GO	GRIT OVERFLOW	WAS	WASTE ACTIVATED SLUDGE

DOMESTIC TECHNICAL REPORT 1.0
EXHIBIT C

CITY OF BUDA, TEXAS
WASTEWATER TREATMENT PLANT PHASE III EXPANSION

PROCESS FLOW DIAGRAM I
(INTERIM III PERMIT PHASE, 1.75 MGD)

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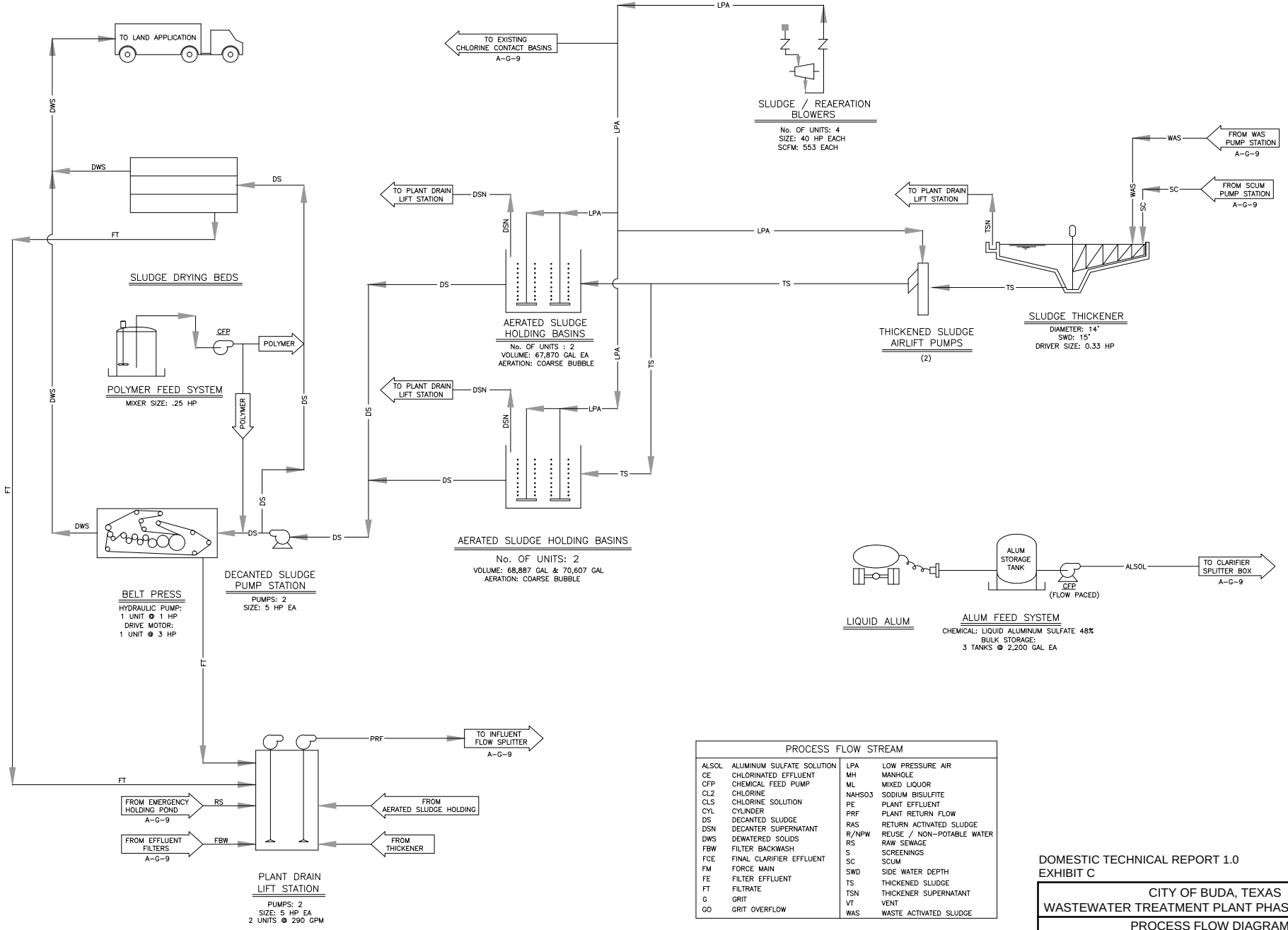

PROCESS FLOW STREAM			
ALSOL	ALUMINUM SULFATE SOLUTION	LPA	LOW PRESSURE AIR
CE	CHLORINATED EFFLUENT	MH	MANHOLE
CFP	CHEMICAL FEED PUMP	ML	MIXED LIQUOR
CL2	CHLORINE	NAHSO3	SODIUM BISULFITE
CLS	CHLORINE SOLUTION	PE	PLANT EFFLUENT
CYL	CYLINDER	PRF	PLANT RETURN FLOW
DS	DECANTED SLUDGE	RAS	RETURN ACTIVATED SLUDGE
DSN	DECANTER SUPERNATANT	R/NPW	REUSE / NON-POTABLE WATER
DWS	DEWATERED SOLIDS	RS	RAW SEWAGE
FBW	FILTER BACKWASH	S	SCREENINGS
FCE	FINAL CLARIFIER EFFLUENT	SC	SCUM
FM	FORCE MAIN	SWD	SIDE WATER DEPTH
FE	FILTER EFFLUENT	TS	THICKENED SLUDGE
FT	FILTRATE	TSN	THICKENER SUPERNATANT
G	GRIT	VT	VENT
GO	GRIT OVERFLOW	WAS	WASTE ACTIVATED SLUDGE

DOMESTIC TECHNICAL REPORT 1.0
EXHIBIT C

CITY OF BUDA, TEXAS
WASTEWATER TREATMENT PLANT PHASE III EXPANSION

PROCESS FLOW DIAGRAM II
(INTERIM III PERMIT PHASE, 1.75 MGD)

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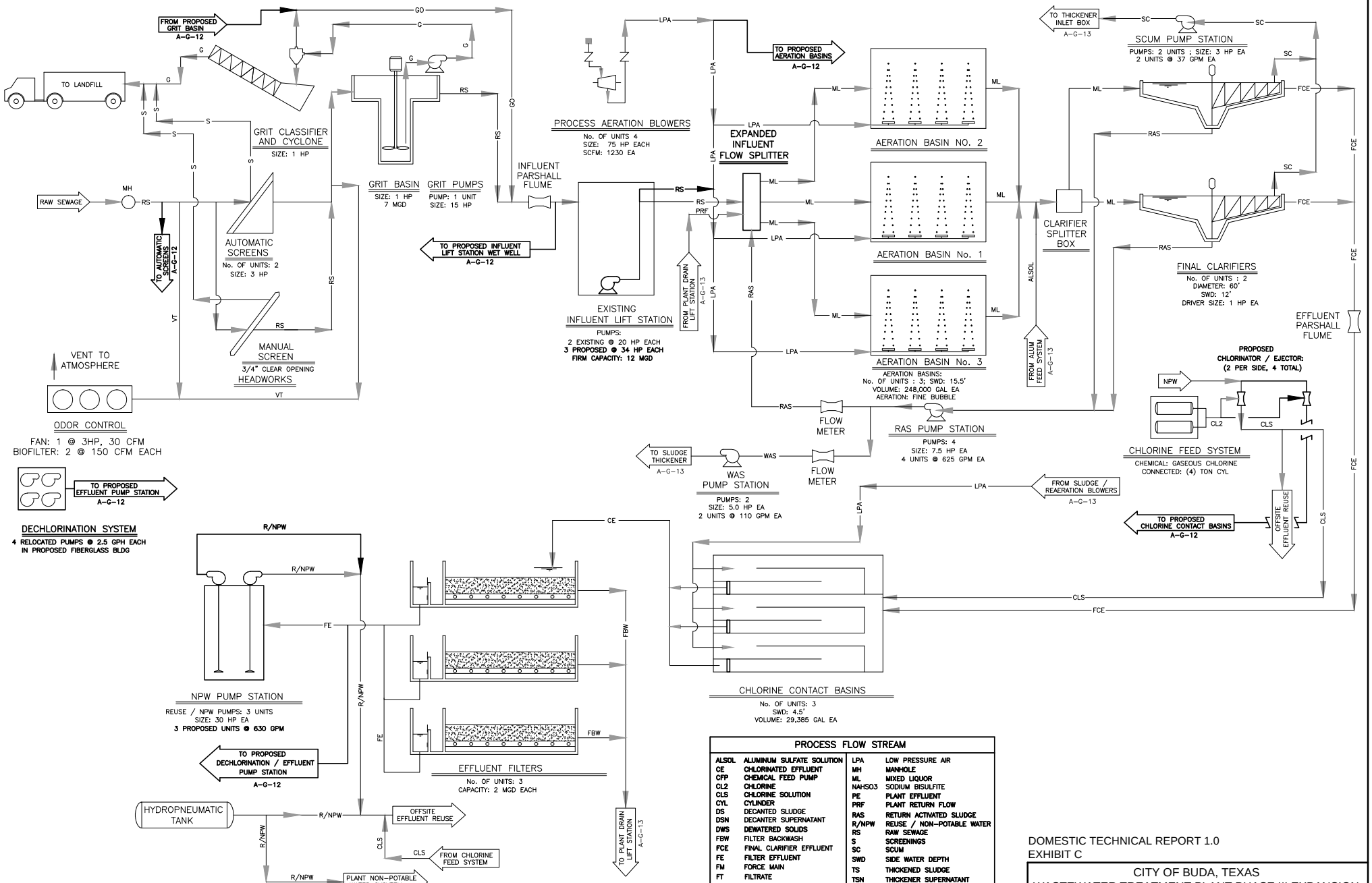

PROCESS FLOW STREAM			
ALSOL	ALUMINUM SULFATE SOLUTION	LPA	LOW PRESSURE AIR
CE	CHLORINATED EFFLUENT	MH	MANHOLE
CFP	CHEMICAL FEED PUMP	ML	MIXED LIQUOR
CL2	CHLORINE	NAHSO3	SODIUM BISULFITE
CLS	CHLORINE SOLUTION	PE	PLANT EFFLUENT
CYL	CYLINDER	PRF	PLANT RETURN FLOW
DS	DECANTED SLUDGE	RAS	RETURN ACTIVATED SLUDGE
DSN	DECANTER SUPERNATANT	R/NPW	REUSE / NON-POTABLE WATER
DWS	DEWATERED SOLIDS	RS	RAW SEWAGE
FBW	FILTER BACKWASH	S	SCREENINGS
FCE	FINAL CLARIFIER EFFLUENT	SC	SCUM
FE	FILTER EFFLUENT	SWD	SIDE WATER DEPTH
FM	FORCE MAIN	TS	THICKENED SLUDGE
FT	FILTRATE	TSN	THICKENER SUPERNATANT
G	GRIT	VT	VENT
GO	GRIT OVERFLOW	WAS	WASTE ACTIVATED SLUDGE

DOMESTIC TECHNICAL REPORT 1.0
EXHIBIT C

CITY OF BUDA, TEXAS
WASTEWATER TREATMENT PLANT PHASE III EXPANSION

PROCESS FLOW DIAGRAM I
(FINAL PERMIT PHASE, 3.5 MGD)

AECOM TECHNICAL SERVICES INC.
9400 AMBERGLEN BLVD.
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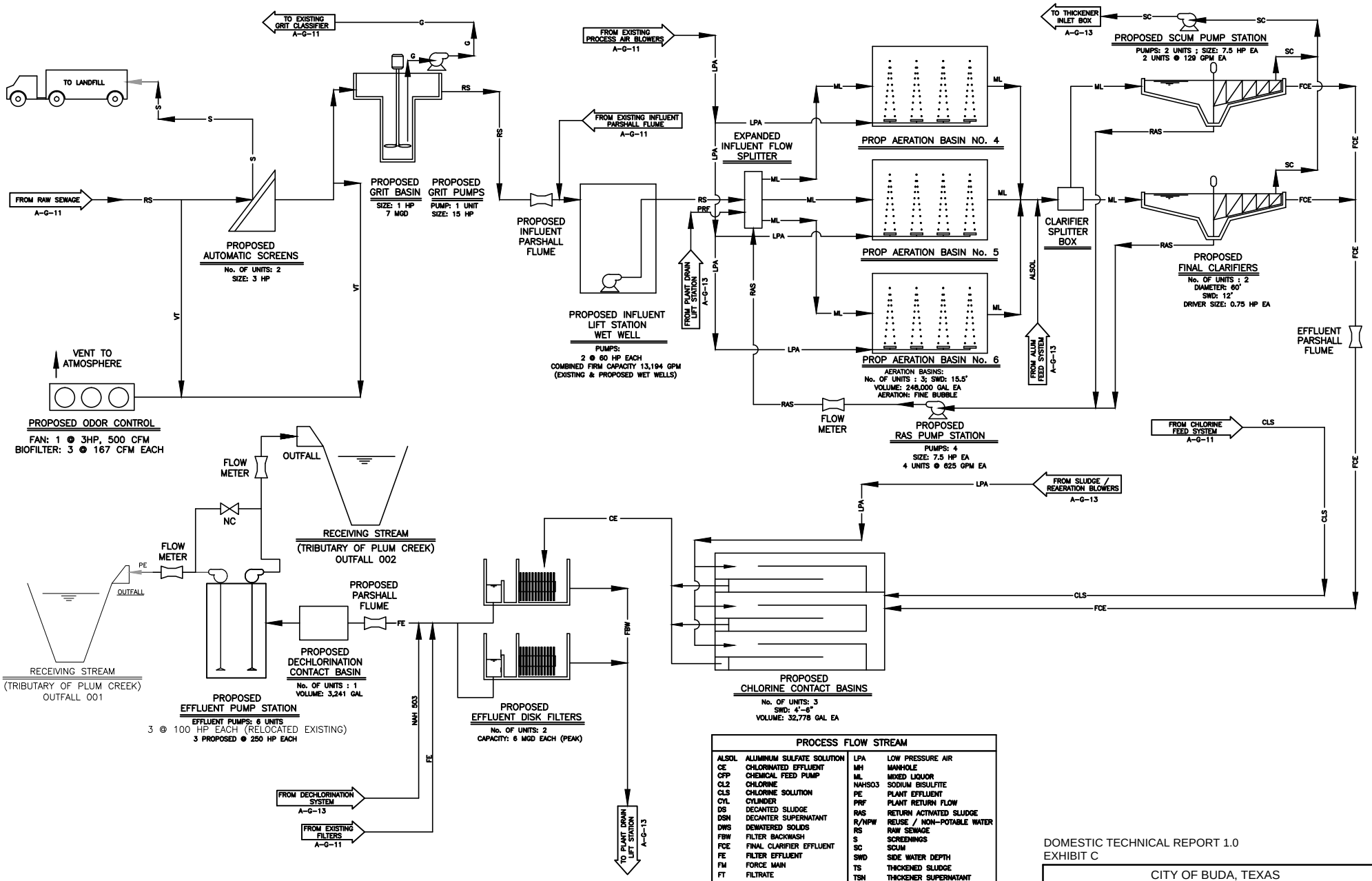
AUGUST 2015



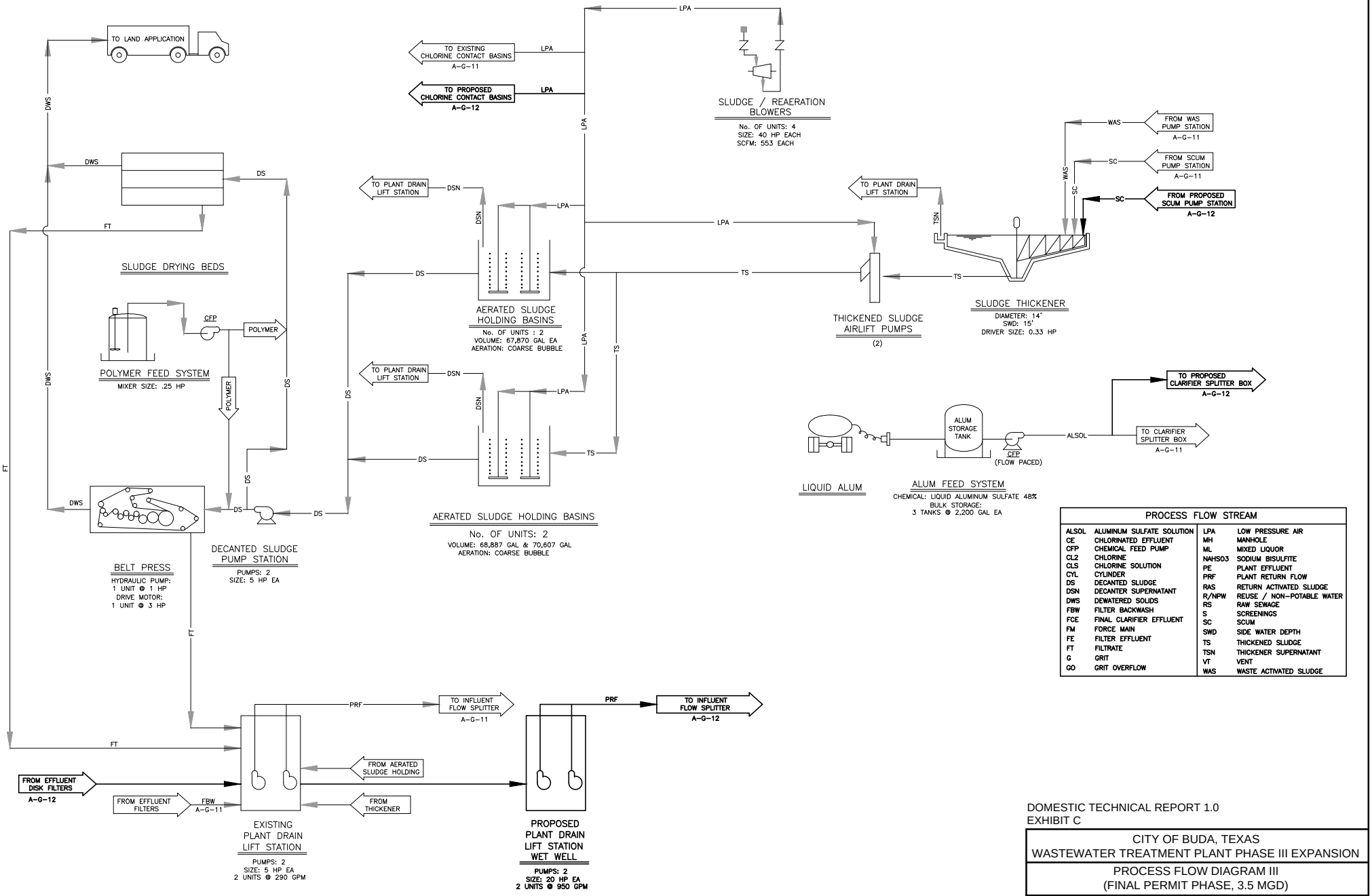
PROCESS FLOW STREAM			
ALSOL	ALUMINUM SULFATE SOLUTION	LPA	LOW PRESSURE AIR
CE	CHLORINATED EFFLUENT	MH	MANHOLE
CFP	CHEMICAL FEED PUMP	ML	MIXED LIQUOR
CL2	CHLORINE	NAHSO3	SODIUM BISULFITE
CLS	CHLORINE SOLUTION	PE	PLANT EFFLUENT
CYL	CYLINDER	PRF	PLANT RETURN FLOW
DS	DECANTED SLUDGE	RAS	RETURN ACTIVATED SLUDGE
DSN	DECANTER SUPERNATANT	R/NPW	REUSE / NON-POTABLE WATER
DWS	DEWATERED SOLIDS	RS	RAW SEWAGE
FBW	FILTER BACKWASH	S	SCREENINGS
FCE	FINAL CLARIFIER EFFLUENT	SC	SCUM
FE	FILTER EFFLUENT	SWD	SIDE WATER DEPTH
FM	FORCE MAIN	TS	THICKENED SLUDGE
FT	FILTRATE	TSN	THICKENER SUPERNATANT
G	GRIT	VT	VENT
GO	GRIT OVERFLOW	WAS	WASTE ACTIVATED SLUDGE

DOMESTIC TECHNICAL REPORT 1.0
EXHIBIT C

CITY OF BUDA, TEXAS
WASTEWATER TREATMENT PLANT PHASE III EXPANSION

PROCESS FLOW DIAGRAM II
(FINAL PERMIT PHASE, 3.5 MGD)

AECOM TECHNICAL SERVICES INC.
9400 AMBERGLEN BLVD.
AUSTIN, TEXAS 78729
WWW.AECOM.COM
TBPE REG. NO. F-3580



PROCESS FLOW STREAM			
ALSOL	ALUMINUM SULFATE SOLUTION	LPA	LOW PRESSURE AIR
CE	CHLORINATED EFFLUENT	MH	MANHOLE
CFP	CHEMICAL FEED PUMP	ML	MIXED LIQUOR
CL2	CHLORINE	NAHSO3	SODIUM BISULFITE
CLS	CHLORINE SOLUTION	PE	PLANT EFFLUENT
CYL	CYLINDER	PRF	PLANT RETURN FLOW
DS	DECANTED SLUDGE	RAS	RETURN ACTIVATED SLUDGE
DSN	DECANTER SUPERNATANT	R/NPW	REUSE / NON-POTABLE WATER
DWS	DEWATERED SOLIDS	RS	RAW SEWAGE
FBW	FILTER BACKWASH	S	SCREENINGS
FCE	FINAL CLARIFIER EFFLUENT	SC	SCUM
FM	FORCE MAIN	SWD	SIDE WATER DEPTH
FE	FILTER EFFLUENT	TS	THICKENED SLUDGE
FT	FILTRATE	TSN	THICKENER SUPERNATANT
G	GRIT	VT	VENT
GO	GRIT OVERFLOW	WAS	WASTE ACTIVATED SLUDGE

DOMESTIC TECHNICAL REPORT 1.0
EXHIBIT C

CITY OF BUDA, TEXAS
WASTEWATER TREATMENT PLANT PHASE III EXPANSION

PROCESS FLOW DIAGRAM III
(FINAL PERMIT PHASE, 3.5 MGD)

AECOM TECHNICAL SERVICES INC.
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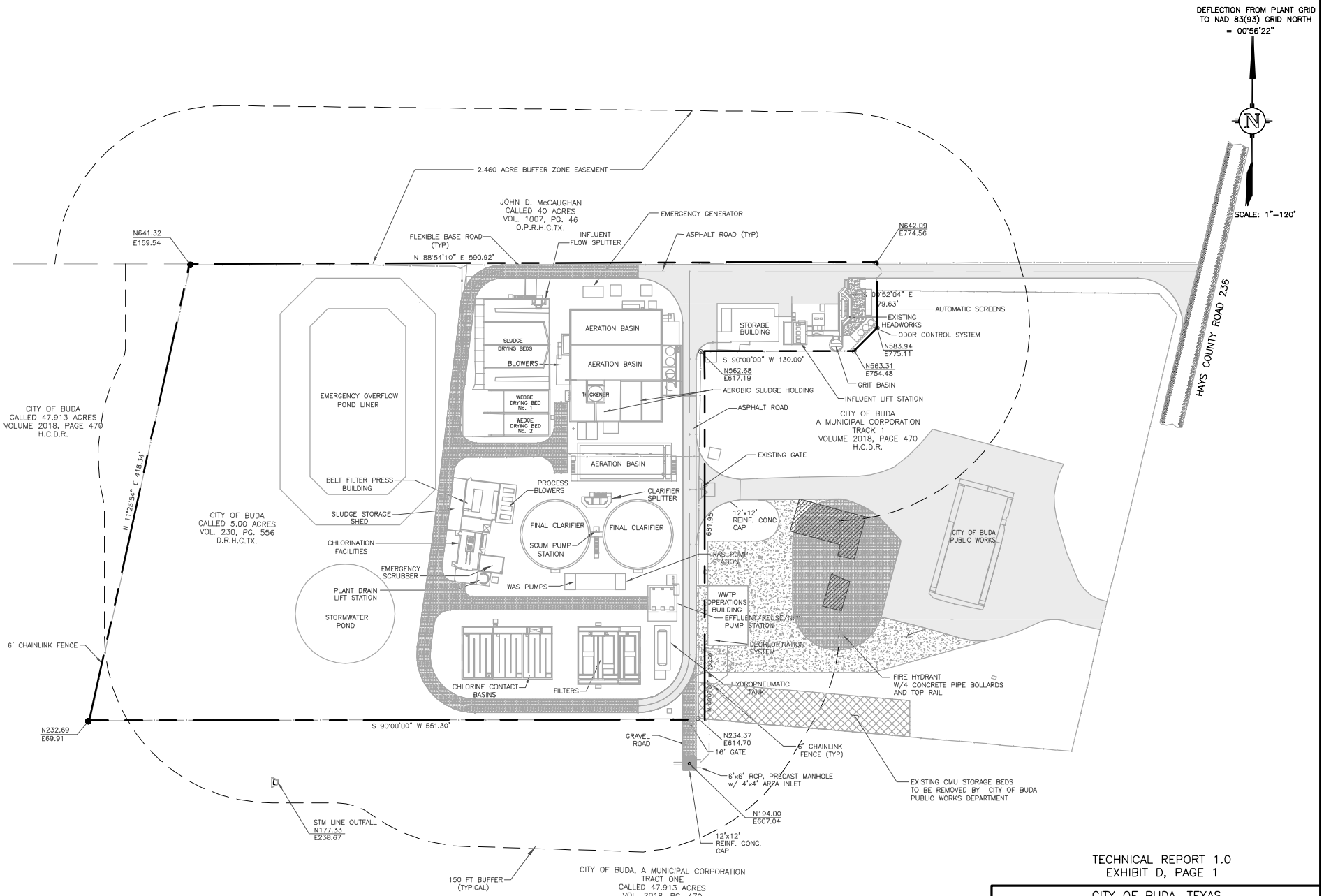
TBPE REG. NO. F-3580



NOTES:

1. PLANT GRID COORDINATES IN THIS PLAN WERE DEVELOPED USING THE FOLLOWING METHOD:

   HORIZONTAL:

   * SOUTHWEST CORNER OF EXISTING DIGESTER BASIN HAVING TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (93), SOUTH CENTRAL ZONE, GRID COORDINATES OF N=13945338.90, E=2334731.92 WAS TRANSLATED TO PLANT GRID COORDINATE N=500.00, E=500.00.

   * NAD 83 (93) BEARING OF WEST FACE OF AERATION BASIN (N00° 56' 22"W) WAS ROTATED FROM SOUTHWEST CORNER (PLANT GRID COORDINATE N=500.00, E=500.00) 00° 56' 22" SECONDS TO ESTABLISH PLANT GRID NORTH (N00° 00' 00"E).

   VERTICAL

   * VERTICAL DATUM– NAVD 88 ESTABLISHED BY 3–WIRE LEVEL LOOP FROM NGS BENCHMARK BM751.

TECHNICAL REPORT 1.0
EXHIBIT D, PAGE 1

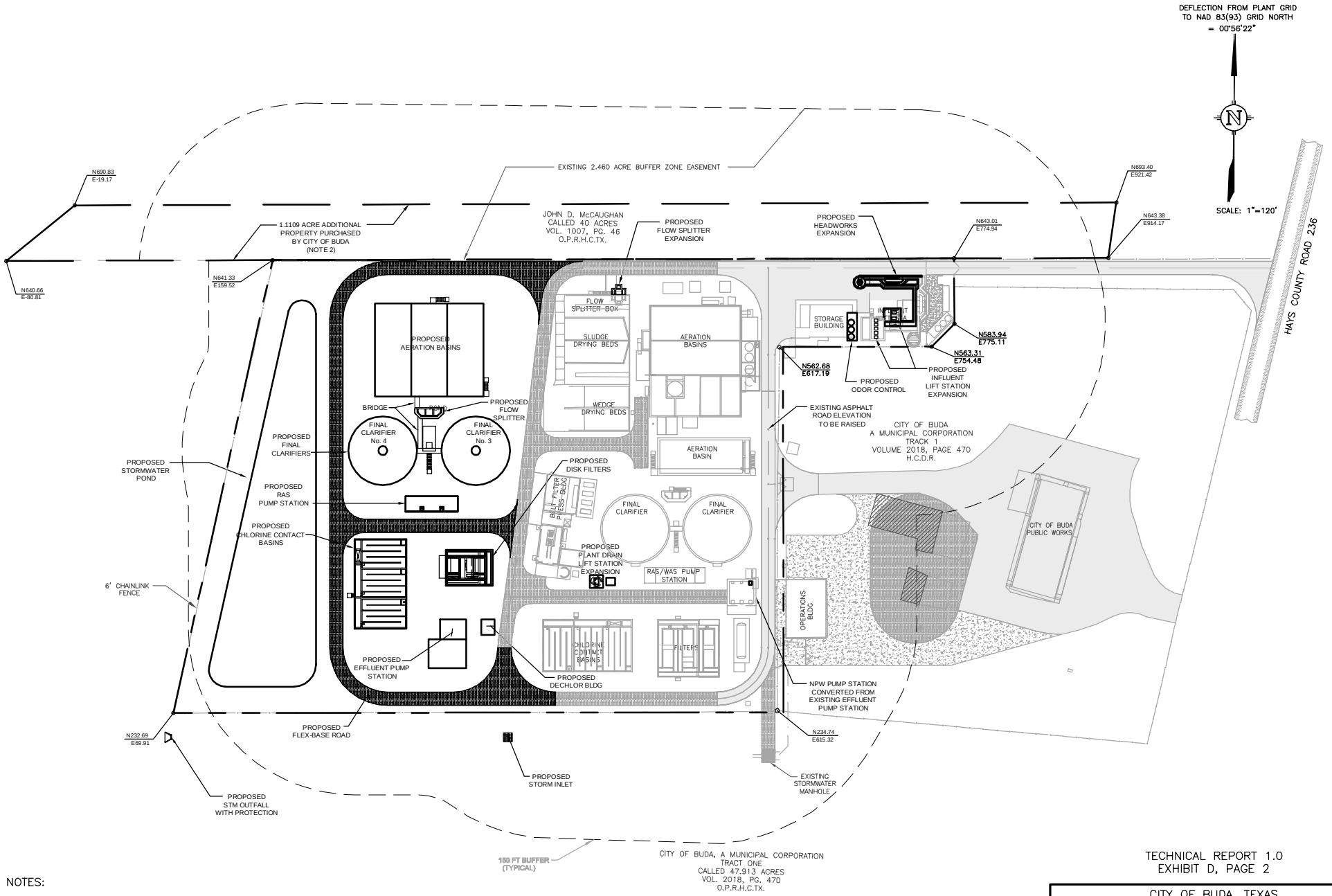
CITY OF BUDA, TEXAS
WASTEWATER TREATMENT PLANT PHASE III EXPANSION

BUDA WWTP SITE BOUNDARY
(INTERIM I AND INTERIM II PERMIT PHASES, 1.5 MGD AND INTERIM III PHASE, 1.75 MGD)

AECOM TECHNICAL SERVICES INC.
9400 AMBERGLEN BLVD.
AUSTIN, TEXAS 78729
WWW.AECOM.COM
TBPE REG. NO. F-3580

AUGUST 2015 | EXHIBIT D, PAGE 1

E:\60323427 Buda WWTP Phase III Expansion\900 CADD\910 CAD\A-C-01.dwg ; August 21, 2015 ; 10:16am



NOTES:

1. PLANT GRID COORDINATES IN THIS PLAN WERE DEVELOPED USING THE FOLLOWING METHOD:

   HORIZONTAL:

   * SOUTHWEST CORNER OF EXISTING DIGESTER BASIN HAVING TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (93), SOUTH CENTRAL ZONE, GRID COORDINATES OF N=13945338.90, E=2334731.92 WAS TRANSLATED TO PLANT GRID COORDINATE N=500.00, E=500.00.

   * NAD 83 (93) BEARING OF WEST FACE OF AERATION BASIN (N00° 56' 22"W) WAS ROTATED FROM SOUTHWEST CORNER (PLANT GRID COORDINATE N=500.00, E=500.00) 00° 56' 22" SECONDS TO ESTABLISH PLANT GRID NORTH (N00° 00' 00"E).

   VERTICAL

   * VERTICAL DATUM– NAVD 88 ESTABLISHED BY 3–WIRE LEVEL LOOP FROM NGS BENCHMARK BM751.

2. 1.108 ACRE TRACT PURCHASED BY CITY OF BUDA WILL BE USED FOR INSTALLATION OF BURIED PIPE AND DUCT BANKS AND/OR PLANT ROADS (NO TREATMENT UNITS).

TECHNICAL REPORT 1.0
EXHIBIT D, PAGE 2

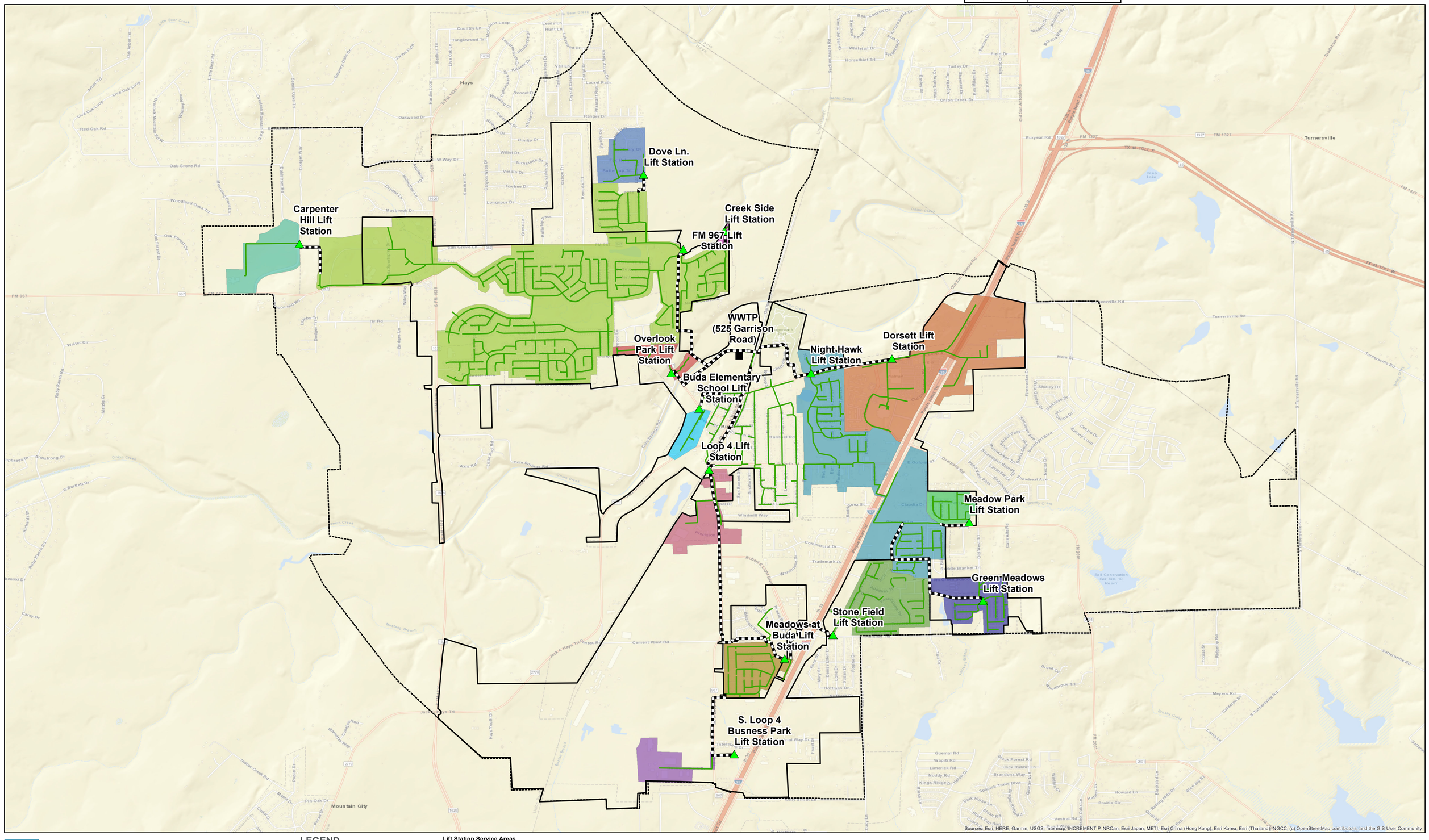
CITY OF BUDA, TEXAS
WASTEWATER TREATMENT PLANT PHASE III EXPANSION

BUDA WWTP SITE BOUNDARY
(FINAL PHASE)

AECOM TECHNICAL SERVICES INC.
9400 AMBERGLEN BLVD.
AUSTIN, TEXAS 78729
WWW.AECOM.COM
TBPE REG. NO. F-3580

AUGUST 2015 | EXHIBIT D, PAGE 2

E:\60323427 Buda WWTP Phase III Expansion\900 CADD\910 CAD\A-C-02.dwg ; August 21, 2015 ; 10:17am



LEGEND

- Buda City limits
- Buda ETJ
- Lift Station
- Force Main
- Gravity Main
- WWTP

Lift Station Service Areas

- Carpenter Hill Lift Station
- Creek Side Lift Station
- Dorsett Lift Station
- Dove Ln. Lift Station
- FM 967 Lift Station
- Green Meadows Lift Station
- Loop 4 Lift Station
- Meadow Park Lift Station
- Meadows at Buda Lift Station
- Meadows at Buda Lift Station
- Night Hawk Lift Ststion
- Overlook Park Lift Station
- Buda Elementray School Lift Station
- S. Loop 4 Busness Park Lift Station
- Stone Field Lift Station

0 1,700 3,400 Feet

CITY OF BUDA
FIGURE 1 – LIFT STATION SERVICE AREAS

PATH: L:\PROJECT_DATA\3430_CITY_OF_BUDA\3430_10138118_WW_MP\GIS\MAP_DOCS\DRAFT\LIFT_STATION_SERVICE_AREAS.MXD - USER: NGONSALV - DATE: 8/27/2020

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 7, 2010

MR MARTIN G RUMBAUGH PE
AECOM
400 W 15TH ST STE 500
AUSTIN TX 78701

Re: CITY OF BUDA
WWTP PHASE II EXPANSION
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY PERMIT NO 11060-001
WWPR LOG NO 0810/059
CN600334510 RN101703288
HAYS COUNTY

Dear Mr. Rumbaugh:

We have received the project summary transmittal letter dated August 24, 2010.

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 Sewerage 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.

1. 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(c). Additionally, the engineering report must include all constants, graphs, 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(c)(1)-(10).

2. 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.

3. 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.

4. 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 §217.5 of the rules which states, "Approval given by the executive director...shall not relieve the sewerage system owner or the design engineer of any liabilities or responsibilities with respect to the proper design, construction, or authorized operation of the project in accordance with applicable commission rules."

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

Sincerely,

Louis C. Herrin, III, P.E.
Wastewater Permits Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

LCH/ms

cc: TCEQ, Region 11 Office

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 13, 2018

Mr. Martin G. Rumbaugh, P.E., BCEE
AECOM
9400 Amberglen Blvd
Austin, Texas 78729

Re: City of Buda
City of Buda WWTP Phase III Expansion
Permit No. WQ0011060-001
WWPR Log No. 0518/083
CN601180565, RN101703288
Hays County

Dear Mr. Rumbaugh:

We received the project summary transmittal letter dated May 23, 2018, and your subsequent submittal of the plans, specifications, and final engineering report.

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.

The project consists of the expansion of the Buda WWTP from an existing treatment capacity of 1.5 MGD to a proposed capacity of 3.5 MGD annual average flow, including milestone improvements to Interim III Permit Phase of operation at 1.75 MGD.

The City of Buda WWTP is regulated by Permit No. WQ0011060001, which allows an Interim I Phase annual average flow of 1.5 MGD (2-hr peak flow of 4,167 gpm), an Interim II Phase annual average flow of 1.5 MGD (2-hr peak flow of 4, 167 gpm), an Interim Phase III annual average flow of 1.75 MGD (2-hr peak flow of 4,861 gpm), and a Final Phase annual average flow not to exceed 3.5 MGD. The permitted final effluent limitations are 5 mg/L of CBOD5, 5 mg/L of TSS, 1.1 mg/L of Ammonia Nitrogen, and 0.5 mg/L of Total Phosphorus. The proposed project improvements to Interim III Phase of 1.75 MGD and Final Phase of 3.5 MGD include:

Interim III Permit Phase (1.75 MGD) Milestone Improvements

- Replacement of the existing influent lift station pumps with two new 20-HP submersible non-clog sewage pumps and three 25-HP submersible non-clog sewage pumps, to provide a firm capacity of 7.0 MGD.
- Installation of a new 30-HP non-potable water (NPW) pump in the existing effluent/reuse pump station wet well.

- Weir crest elevations of the effluent weirs in the existing chlorine contact basins will be increased to provide 20 minutes chlorine contact time in the existing chlorine contact basins at a peak 2-hr flow rate of 7.0 MGD.
- Replacement of existing 90-degree bends at various outlet structures with vertical tees and vent standpipes, to reduce air-entrainment.

Final Permit Phase (3.5 MGD) Improvements

- Construction of a new influent channel with two proposed stainless-steel rotary fine screens and screenings dewatering conveyors, providing a peak flow (existing plus proposed) fine screening capacity of 14 MGD.
- Construction of a proposed vortex-type grit chamber with stainless steel mechanical components, with a top-mounted grit pump, and a proposed hydrocyclone grit concentrator, providing a peak flow (existing plus proposed) grit removal capacity of 14 MGD.
- Construction of a new odor control system at the WWTP headworks, consisting of a pre-engineered modular organic media biofilter system with three HDPE medial vessels, FRP fan, and humidification system.
- Construction of a new 10-ft x 14.5-ft x 16-ft influent lift station wet well with two proposed 60-HP submersible non-clog submersible sewage pumps, to provide a peak flow (existing plus proposed) influent pumping firm capacity of at least 14 MGD.
- Expansion of the existing influent splitter structure, to combine raw influent with RAS and plant return flows from the existing and proposed treatment facilities, to feed three existing aerations basins and three proposed new aeration basins.
- Construction of three 75-ft long x 30-ft wide x 15.5-ft side water depth new aeration basins with fine-bubble aeration systems. The total aeration volume (existing plus proposed aeration basins) will be 204,090 cubic feet. Each proposed aeration basin will include a total of 528 ceramic disk fine bubble diffusers in two grids.
- Modifications of the existing process blower facilities to include mechanical piping and electrical power provisions to facilitate future installation of up to three additional blowers, each 75-HP and capable of operation at up to 1,200 SCFM, to provide a total (existing plus future) process aeration blower firm capacity of 7,200 SCFM.
- Construction of a proposed clarifier flow splitter structure to divide flow between the three proposed aeration basins between two proposed final clarifiers.
- Construction of two new 60-ft diameter x 12-ft SWD circular final clarifiers with scraper type sludge collector mechanisms.
- Construction of a new 4-ft x 4-ft x 9-ft scum pump station with two submersible grinder type sewage pumps.
- Construction of a new RAS pump station with four proposed 7.5-HP VFD self-priming non-clog sewage pumps, each with a nominal rated capacity of 625 gpm at 24-ft TDH.
- Installation of two proposed flow-paced automatic gas-vacuum chlorinators in the existing chlorinator building, and replacement of an existing ejector and gas rotameter in the existing chlorine gas vacuum feed system, to provide two independent duplex gas-vacuum chlorinators systems, each with a firm chlorine feed system capacity of 500 lbs/day.
- Construction of three new chlorine contact basins, each 34.67-ft long x 24.17-ft wide x 5-ft SWD, to provide chlorine contact time of 20 minutes at WWTP peak flow rate.

- Construction of two new automatic backwashing cloth-disk media effluent filters in reinforced concrete basins. The proposed filters are each fourteen disk units, each providing a nominal peak flow capacity of 7.0 MGD. The addition of the proposed filters to the existing sand-media filters will provide a firm capacity of 20 MGD.
- Construction of a proposed dechlorination contact basin and sodium bisulfite feed system for dechlorination. The contact basin is sized to provide 20 seconds of contact time at a peak flow rate of 14 MGD.
- Construction of a proposed effluent pump station with wet well dimensions of 24-ft x 22-ft x 22.8-ft with three proposed 300-HP effluent pumps plus three existing 100-HP pumps to be relocated from the existing effluent/reuse pump station.
- Construction of a proposed plant drain lift station with an 8-ft diameter x 19-ft deep wet well, with two proposed 15-HP submersible sewage pumps.
- Installation of three new 1000 kW diesel engine driven generator sets with automatic transfer switches, sized to be capable of automatically transferring power and operating all existing and proposed WWTP equipment and facilities at firm capacity in the event of power failure.
- Modifications to the existing alum feed system including residual phosphorus analyzers at each (existing plus proposed) chlorine contact basin influent channel.
- A proposed stormwater pond sized to retain on-site stormwater runoff during a 1% probability of recurrence storm event.
- Miscellaneous improvements including electrical power systems, SCADA, and installation of FRP effluent launder covers in existing final clarifiers.

The following variances, which were approved by TCEQ on July 3, 2015 relating to re-rating Buda WWTP, are also requested in the design of this project for operation under the permit Final Phase annual average flow of 3.5 MGD.

- Aeration basins
  - A proposed design aeration basin organic loading of 46 lbs of BOD_5/1000 ft^3 from 35 lbs of BOD_5/1000 ft^3 organic loading required by Section 217.154(b)(2).
- Process aeration blowers
  - A proposed design firm aeration blower capacity of 2,985 SCFM from 3,124 SCFM aeration requirements established by Section 217.155(b)(2).
- Final clarifiers
  - A proposed design surface loading at 2-hr peak flow of 1,238 GPD/ft2 from 1,200 GPD/ft2 surface loading required by Section 217.154(c)(1).
  - A proposed design detention time at 2-hr peak flow of 1.76 from 1.8-hr detention time requested by Section 217.154(c)(1).

Our review indicated that the documents provided are in general compliance with the applicable minimum standards as set forth in Chapter 217, *Design Criteria for Domestic Wastewater Systems*. On that basis, this project and the requested variances are conditionally approved for construction. The condition is that if the plant does not meet the permitted effluent limits with the approved variances, you will have to increase the plant treatment capacity accordingly.

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(c). Additionally, the engineering report must include all constants, graphs, 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).

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.

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) 239-4924.

Sincerely,

(Nella) Negar Ghasempour, M.E.
Wastewater Permits Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

Baltazar Lucero-Ramirez, P.E.
Wastewater Permits Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

BLR/NG

cc: TCEQ, Region 11 Office

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 13, 2023

Martin G. Rumbaugh, P.E., BCEE
AECOM
13640 Briarwick Drive, Suite 200
Austin, Texas 78729

Re: City of Buda
Buda Wastewater Treatment Plant 24 inch Effluent Force Main
Permit No. WQ0011060-001
WWPR Log No. 0923/018
CN600739866, RN101703288
Hays County

Dear Mr. Rumbaugh:

TCEQ received the project summary transmittal letter dated September 7, 2023.

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(e), 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 §217.10. Additionally, the engineering report must include all constants, graphs, equations, and calculations needed to show substantial compliance with Chapter 217.

- 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) 239-1372.

Sincerely,

Paul A. Brochi, P.E.
Wastewater Permits Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

PAB/tc

Technical Report 1.0 Exhibit I
Facility Operators

Name	Position	License	License Number	Expires	Years Licensed
Jesi Mann	Assistant Division Manager	A Wastewater	WW0065000	10/20/26	11
Jesus Loera	Chief Operator	A Wastewater	WW0066830	08/19/27	10
Hugo Galvan	Lead Operator	B Wastewater	WW0062568	04/17/28	11

WALKER AERO
ENVIRONMENTAL LLC

March 20, 2019

GBRA *Via E-mail: EMontana@GBRA.org*
Attn.: Eduardo Montana, Division Mgr., Hays & Caldwell Counties

Re: Acceptance of Waste Disposal

Please allow this letter to confirm that Walker Aero Environmental dba J-V Dirt + Loam ("Walker Aero") will allow GBRA Wastewater Treatment Plants ("GBRA") to dispose of biosolids generated by the following locations as applicable:

Location	Plant Name	Permittee(s)	TPDES	Permitted discharge(MGD)	Discharge Limits(CBOD, TSS, NH3-N, Total P, E. coli)
Lockhart Larremore	Lockhart Wastewater Treatment Facility No. 1	City of Lockhart and Guadalupe-Blanco River Authority	WQ0010210001	1.1	10/15/3/*/126
Lockhart FM 20	Lockhart Wastewater Treatment Facility No.2	Guadalupe-Blanco River Authority	WQ0010210002	1.5	10/15/3/*/126
Buda	City of Buda Wastewater Treatment Facility	City of Buda and Guadalupe-Blanco River Authority	WQ0011060001	1.5	5/12/2/0.8/*
Shadow Creek	Castletop Capital Hays ABC Wastewater Treatment Facility	Hays Shadow Creek Development, Inc. and North Hays County Municipal Utility District No. 1	WQ0014431001	0.610	5/5/2/1/*
Sunfield MUD	A&M Heep Wastewater Treatment Facility	Guadalupe-Blanco River Authority and Sunfield Municipal Utility District No. 4	WQ0014377001	0.500	5/5/2/1/126

Any materials, specifically including, but not limited to, hazardous wastes listed by the Environmental Protection Agency (*see* 40 CFR §261.31; 40 CFR §261.32; 40 CFR §261.33) and Class I industrial solid waste, are prohibited.

If you have any questions or concerns, feel free to contact us at (512) 927-1977.

Sincerely,

Walker Aero Environmental dba J-V Dirt + Loam
By: _____
Printed Name: Phillip McCammon V
Title: Vice President

Wastewater Residuals Management, LLC

Austin Wastewater Processing Facility
826 Linger Ln
Austin, Texas 78721
(512) 973-8484

Waste Stream Acceptance

Wastewater Residuals Management, LLC, an affiliate of Wastewater Transport Services, LLC, owns and operates the Austin Wastewater Processing Facility. This facility has been permitted by the TCEQ and assigned permit number MSW 2384. The disposal facility is expected to be open for at least the next 5 years.

The facility has been permitted as a Centralized Waste Treatment Facility able to revice to receive the following categorical and non-categorical waste streams:

- Wastewater Treatment Plant Sludge
- Water Treatment Plant Sludge
- Leachate
- Septic
- Sanitary Sewer
- Storm Water
- Food Service Grease
- Car Wash Grit Trap
- Other Class II Non-Hazardous Liquid Waste

***Please note that analytical may be required before the waste stream will be accepted.

Wastewater Residuals Management, LLC agrees to accept any of the above waste streams from the below listed generator.

Generator: **Buda WWTP**

Identifying Info:

Cory R. Juby
Environmental Compliance

Wastewater Residuals Management reserves the right to discontinue acceptance of the below mentioned waste at any time.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 8, 2012

Mr. Graham Moore, P.E.
LAN, Inc.
400 West Hopkins, Suite 203
San Marcos, Texas 78666

Re: City of Buda and Guadalupe-Blanco River Authority
Reuse Authorization No. R11060-001, Hays County
CN600739866, CN601180565, RN101703288

Dear Mr. Moore:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the application for the above referenced authorization. The authorization allows of the reuse of Type I and Type II wastewater effluent from the City of Buda Wastewater Treatment Facility and expansion of the service area as requested.

Thank you for your cooperation during this review process. If you have any questions, please contact Julian D. Centeno, Jr. of my staff at Julian.Centeno@tceq.texas.gov or (512) 239-4608.

Sincerely,

Chris Linendoll, Manager, E.I.T.
Wastewater Permitting Section
Water Quality Division

cc: TCEQ Region 11

AUTHORIZATION FOR RECLAIMED WATER

Authorization No. R11060-001
This authorization supersedes and replaces
Authorization No. R11060-001 approved June 8, 2004

Producer:	City of Buda and Guadalupe-Blanco River Authority P.O. Box 1218 Buda, Texas 78610
Provider:	City of Buda P.O. Box 1218 Buda, Texas 78610
User:	City of Buda P.O. Box 1218 Buda, Texas 78610 Any user within the service area authorized by the provider.
Location:	The wastewater treatment facility is located at 575 County Road 236, Buda in Hays County, Texas 78610.
Authorization:	Type I and Type II reclaimed water from the City of Buda Wastewater Treatment Facility (TPDES Permit No. WQ0011060001). The use of treated effluent for Type I: The irrigation of residential, commercial, public parks, school yards, or athletic fields and maintenance of impoundments or natural water bodies; and Type II: the irrigation of golf courses, cemeteries, landscaped areas surrounding commercial or industrial complexes, and land restricted from public access, soil compaction and dust control, and cooling tower makeup water. The service area consists of the following counties: Caldwell, Hays and Travis.

This authorization contains the conditions that apply for the use of reclaimed water. The approval of reclaimed water use under Chapter 210 does not affect any existing water rights. If applicable, a reclaimed water use authorization in no way affects the need of a producer, provider, or user to obtain a separate water right authorization from the commission. This authorization does not allow irrigation of any area authorized for irrigation under a Texas Land Application Permit.

Issue Date: June 8, 2012

Zak Covar, Executive Director

City of Buda and Guadalupe-Blanco River Authority
Reclaimed Authorization No. R11060-001

I. General Requirements

A. No producer or provider may transfer reclaimed water to a user without first notifying the commission.

B. Reuse of untreated wastewater is prohibited.

C. Food crops that may be consumed raw by humans must not be spray irrigated. Food crops including orchard crops that will be substantially processed prior to human consumption may be spray irrigated. Other types of irrigation that avoid contact of reclaimed water with edible portions of food crops are acceptable.

D. There must be no nuisance conditions resulting from the distribution, the use, or storage of reclaimed water.

E. Reclaimed water must not be used in a way that degrades groundwater quality to a degree adversely affecting its actual or potential uses.

F. Reclaimed water stored in ponds must be prevented from discharging into waters in the state, except for discharges directly resulting from rainfall events or in accordance with a permit issued by the commission. All other discharges are unauthorized.

G. If an overflow of a holding pond occurs causing discharge into or adjacent to water in the state, the user or provider, as appropriate, shall report the noncompliance. A written submission of pertinent information must be provided to the TCEQ Region 11 office in Austin and to the TCEQ Enforcement Division (MC-224) in Austin, within five (5) working days after becoming aware of the overflow. The submission must contain:

1. a description of the noncompliance and its cause;
2. the potential danger to human health or safety, or the environment;
3. the period of noncompliance, including exact dates and times;
4. if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
5. steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

H. Unless otherwise provided in this authorization, there must be no off-site discharge, either airborne or surface runoff of reclaimed water from the user's property except to a wastewater treatment collection system or wastewater treatment facility unless the reclaimed water user applies for and obtains a permit from the commission that authorizes discharge of the water.

I. All reclaimed water piping must be separated from potable water piping when trenched by a distance of at least nine feet for Type II effluent and four feet For Type I. All buried pipe must be manufactured in purple, painted purple, taped with purple metallic tape or bagged in purple. All exposed piping, hose bibs and faucets must be painted purple, designed to prevent connection to a standard water hose, and stenciled with a warning reading "NON-POTABLE WATER."

J. The design of any new distribution system that will convey reclaimed water to a user requires the approval of the executive director. Materials must be submitted to the executive director in accordance with the Texas Engineering Practice Act (Texas Occupation Code, Chapter 1001). The plans and specifications for any new distribution

system constructed pursuant to this authorization must be approved by the executive director. Failure to secure approval before commencing construction or making a transfer of reclaimed water is a violation of this authorization. Each day of a transfer is a separate violation until approval has been secured.

K. Nothing in this authorization modifies any requirements in 30 TAC Chapter 290, Public Drinking Water.

L. A major change from a prior notification for use of reclaimed water must be approved by the executive director before it can be implemented. A major change includes:

1. a change in the boundary of the approved service area, not including the conversion of individual lots within a subdivision to reclaimed water use;
2. the addition of a new provider;
3. a major change in the intended use, such as conversion from irrigation of a golf course to residential irrigation; or
4. a change from either Type I or Type II use to the other.

M. The reclaimed water producer, provider, and user shall maintain current operation and maintenance plans on the sites over which they have operational control. The operation and maintenance plan must contain the following, as a minimum:

1. a copy of the signed contract between the user and provider and a copy of the signed contract between the provider and the producer, as applicable;
2. a labeling and separation plan for the prevention of cross connections between reclaimed water distribution lines and potable water lines;
3. the measures that will be implemented to prevent unauthorized access to reclaimed water facilities (e.g., secured valves);
4. procedures for monitoring reclaimed water;
5. a plan for how reclaimed water use will be scheduled to minimize the risk of inadvertent human exposure;
6. schedules for routine maintenance;
7. a plan for worker training and safety; and
8. contingency plan for system failure or upsets.

N. One of the following requirements must be met by the user or provider, for any area where reclaimed water is stored or where there are hose bibs or faucets:

1. Signs having a minimum size of eight inches by eight inches must be posted at all storage areas and on all hose bibs and faucets reading, in both English and Spanish, "Reclaimed Water, Do Not Drink" or similar warning.
2. The area must be secured to prevent access by the public.

O. Where a reclaimed water line parallels a sewer line, the reclaimed water line must be constructed in accordance with subsection (p) or (q) of this section. The horizontal separation distance must be three feet (outside to outside) with the reclaimed water line at the level of or above the sewer line. Reclaimed water lines that parallel sewer lines may be placed in the same benched trench. Where a reclaimed water line crosses a sewer line,

the requirement of 30 TAC §290.44(e)(4)(B), Water Line Installation—crossing lines, must be followed with the reclaimed water line substituted for the water line.

P. Reclaimed water pipes must meet the following requirements:

1. lines that transport reclaimed water under pressure must be sized according to acceptable engineering practices for the needs of the reclaimed water users.
2. reclaimed water force mains must have an expected life of at least as long as that of the associated lift station and must be suitable for the reclaimed water being pumped and operating pressure to which it will be subjected.
3. must be identified in the technical specifications with appropriate American Society for Testing and Materials, American National Standard Institute, or American Water Works Association standard numbers for both quality control (dimensions, tolerance, and installation such as bedding or backfill).
4. pipes and fittings must have a minimum working pressure rating of 150 pounds per square inch.
5. Final plans and specifications must describe required pressure testing for all installed reclaimed water force mains.
6. Minimum test pressure must be 1.5 times the maximum design pressure. Allowable leakage rates must be determined as described in 30 TAC §217.97, Pressure Sewer Systems.
7. Gravity flow reclaimed water lines must meet the requirements of 30 TAC Chapter 217, Subchapter C, Conventional Collection Systems. The provider shall prevent high velocity scouring and maintain adequate fluid velocity to prevent the deposition of solids in the lines.

Q. All exposed piping and piping within a building must be either purple pipe or painted purple. All exposed piping should be stenciled in white with a warning reading "NON-POTABLE WATER. All exposed or buried reclaimed water piping constructed at a wastewater treatment facility is exempt from the color-coding requirement of this section.

R. When applicable, in accordance with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems, the design of the distribution systems that will convey reclaimed water to a user must be submitted to the executive director and must receive an approval before the distribution system may be constructed. The design of the distribution systems must meet the criteria of 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. When a municipality is the plan review authority for certain sewer systems that transport primarily domestic waste, in lieu of the commission, design submittal will not be subject to submittal to the commission and instead must be approved by the municipality.

S. All ground level and elevated storage tanks must be designed, installed, and constructed in accordance with current AWWA standards with reference to materials to be used and construction practices to be followed, except for health-based standards strictly related to potable water storage and contact practices, where appropriately less restrictive standards may be applied.

II. Storage Requirements for Reclaimed Water

A. Storage facilities for retaining reclaimed water prior to use must not be located within a floodway.

B. Storage ponds must be hydraulically separated from waters in the state.

C. Any holding pond designed to contain Type I effluent or Type II effluent that is located within a DRASTIC Pollution Potential Index Zone of less than 110, shall conform to the following requirements:

1. Ponds with an earthen liner must meet the following requirements
    a. A permeability of less than 1×10^{-4} cm/sec;
    b. The ponds must be designed and constructed to prevent groundwater contamination;
    c. Soils used for pond lining must be free from foreign material such as paper, brush, trees, and large rocks; and
    d. All soil liners must be of compacted material, at least 24 inches thick, compacted in lifts no greater than 6 inches thick and compacted to 95% of Standard Proctor Density;
    e. Soil liners must meet the following particle size gradation and Atterberg limits:
        i. 30% or more passing a number 200 mesh sieve; and
        ii. a liquid limit of 30% or greater; and
        iii. a plasticity index of 15 or greater;
    f. In situ liners at least 24 inches thick meeting a permeability less than or equal to 1×10^{-4} cm/sec are acceptable alternatives; In-situ clay soils meeting the soils liner requirements must be excavated and re-compacted a minimum of 6 inches below planned grade to assure a uniformly compacted finished surface.

D. Any holding pond containing reclaimed water located within the recharge zone of the Edward Aquifer or designed to contain Type II effluent and is located within a DRASTIC Pollution Potential Index Zone of 110 or greater, shall conform to the following requirements:

1. Ponds with an earthen liner must meet the following requirements
    a. A permeability of less than 1×10^{-7} cm/sec;
    b. The ponds must be designed and constructed to prevent groundwater contamination;
    c. Soils used for pond lining must be free from foreign material such as paper, brush, trees, and large rocks; and
    d. All soil liners must be of compacted material, at least 24 inches thick, compacted in lifts no greater than 6 inches thick and compacted to 95% of Standard Proctor Density;
    e. Soil liners must meet the following particle size gradation and Atterberg limits:
        i. 30% or more passing a number 200 mesh sieve; and
        ii. a liquid limit of 30% or greater; and
        iii. a plasticity index of 15 or greater;

f. In situ liners at least 24 inches thick meeting a permeability less than or equal to 1×10^{-7} cm/sec are acceptable alternatives; In-situ clay soils meeting the soils liner requirements must be excavated and re-compacted a minimum of 6 inches below planned grade to assure a uniformly compacted finished surface.

E. Synthetic membrane linings must have a minimum thickness of 40 mils and have a leak detection system;

F. Certification by a Texas licensed professional engineer must be furnished stating that the pond liner meets the appropriate criteria prior to use of the facilities;

G. Soil embankment walls must have a top width of at least five feet. The interior and exterior slopes of soil embankment walls must be no steeper than one foot vertical to three feet horizontal unless alternate methods of slope stabilization are used. All soil embankment walls must be protected by a vegetative cover or other stabilizing material to prevent erosion. Erosion stops and water seals must be installed on all pipe penetrating the embankments; and

H. An alternative method of pond lining that provides equivalent or better water quality protection than provided under this section may be utilized with the prior approval of the executive director; and

I. Reclaimed water may be stored in leak-proof, fabricated tanks;

J. Subsequent holding ponds utilized for the receipt and storage of reclaimed water of a quality that could cause or causes a violation of a surface water quality standard or impairment of groundwater for its actual or intended use will be also subject to the storage requirements of this section.

III. Specific Uses and Quality Standards for Reclaimed Water

A. Numerical parameter limits pertaining to specific reclaimed water use categories are contained in this section. These limits apply to reclaimed water before discharge to initial holding ponds or a reclaimed water distribution system.

B. The reclaimed water producer shall establish that the reclaimed water meets the quality limits at the sample point for the intended use in accordance with the monitoring requirements identified in Section IV, Sampling and Analysis.

C. Types and quality standards for reclaimed water.

1. Type I Reclaimed Water Use. The use of Type I reclaimed water is for situations where the public may come in contact with the reclaimed water. The uses allowed by this authorization are:

   a. Irrigation: residential, commercial, public parks, schoolyards, athletic fields, and maintenance of impoundments or natural water bodies.

2. The following conditions apply to Type I use of reclaimed water. At a minimum, the reclaimed water producer shall transfer only reclaimed water of the following quality as described for Type I reclaimed water use. Type I reclaimed water on a 30-day average must have a quality of no more than:

Table 1. Type I Quality Requirements

Parameter	Limit	Limit Type
Turbidity	3 NTUs	30-day average
$CBOD_5$	5 mg/l	30-day average
E. coli	20/100 ml	30-day geometric mean (MPN or CFU)
E. coli	75/100 ml	maximum single grab sample (MPN or CFU)

3. Type II Reclaimed Water Use. The use of Type II reclaimed water is for situations where the public will not be exposed to the reclaimed water. The uses allowed by this authorization are:
   a. Irrigation of area where the public is not present during the times when irrigation operations are in progress, such as golf courses, cemeteries, and landscaped areas surrounding commercial or industrial complexes.
   b. Land restricted from public access.
   c. Soil compaction or dust control in construction areas where application procedures minimize aerosol drift to public areas.
   d. Cooling tower makeup water. Use for cooling towers that produce significant aerosols adjacent to public access areas may have special requirements.

4. The following conditions apply to Type II use of reclaimed water. At a minimum, the reclaimed water producer shall transfer only reclaimed water of the following quality. Type II reclaimed water on a 30-day average must have a quality of no more than:

Table 2. Type II Quality Requirements

Parameter	Limit	Limit Type
$CBOD_5$	15 mg/l	30-day average
E. coli	200/100 ml	30-day geometric mean (MPN or CFU)
E. coli	800/100 ml	maximum single grab sample (MPN or CFU)

D. Test Procedures

1. Test procedures for the analysis of pollutants must comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations must accurately represent the reclaimed water.

2. All laboratory tests submitted to demonstrate compliance with this authorization must meet the requirements of 30 TAC Chapter 25, *Environmental Testing Laboratory Accreditation and Certification.*

IV. Sampling and Analysis

A. The reclaimed water producer shall sample the reclaimed water prior to distribution to the entity that first received the reclaimed water after it leaves the wastewater treatment facility (provider or user) to assure that the water quality meets the standard for the contracted use.

B. Analytical methods must be in compliance with 30 TAC Chapter 319, *Monitoring and Reporting.*

C. The minimum sampling and analysis frequency for Type I reclaimed water is twice per week when reclaimed water is being produced and shall be reported as outfall 800.

D. The minimum sampling and analysis frequency for Type II reclaimed water is once per

week when reclaimed water is being produced and shall be reported as outfall 900.

E. The monitoring must be done after the final treatment unit.

F. The records of the monitoring must be kept on a monthly basis and be available at the facility site for inspection by representatives of the Commission for at least five years.

V. Record Keeping and Reporting

A. The reclaimed water provider and user shall maintain records on site for a period of at least five years.

B. The producer shall maintain the following records:

1. copies of notifications made to the commission concerning reclaimed water projects;

2. as applicable, copies of contracts with each reclaimed water user (this requirement does not include reclaimed water users at residences that have separate distribution lines for potable water);

3. records of the volume of water delivered to each reclaimed water user per delivery (this requirement does not apply to reclaimed water users at residences that have separate distribution lines for potable water); and

4. reclaimed water quality analyses.

C. The reclaimed water provider or producer shall report to the commission on a monthly basis the following information on forms furnished by the executive director. The reports are due by the 20th day of the month following the reporting period.

1. volume of reclaimed water delivered to each user; and

2. quality of reclaimed water delivered to a user or provider reported as a monthly average for each quality criteria, except those listed as "not to exceed" that must be reported as individual analyses.

VI. Transfer of Reclaimed Water

A. Reclaimed water must transferred from a provider to a user on a demand only basis. A reclaimed water user may refuse delivery of reclaimed water at any time.

B. All reclaimed water transferred to a user must be of at least the quality specified in Section IV, *Sampling and Analysis*.

C. Transfer must be by pipes or tank trucks.

D. The transfer of reclaimed water must be terminated immediately if a provider becomes aware of the misuse of the reclaimed water by the user, regardless of contract provisions.

VII. Restrictions

A. This authorization does not convey any property right and does not grant any exclusive privilege.

B. This authorization does not allow the use of reclaimed water on land that is authorized as a disposal site under either a Texas Pollutant Discharge Elimination System (TPDES) permit or a Texas Land Application Permit (TLAP).

VIII. Responsibilities and Contracts

A. The producer of reclaimed water is not liable for misapplication of reclaimed water by users, except as provided in this section. Both the reclaimed water provider and user have at least but are not limited to the following responsibilities:

1. The reclaimed water producer shall: transfer reclaimed water of at least the minimum quality required by this chapter at the point of delivery to the user;

   a. sample and analyze the reclaimed water and report the analyses in accordance with Section IV, Sampling and Analysis, and Section V, Recordkeeping and Reporting; and

   b. notify the executive director in writing within five (5) days after obtaining knowledge of reclaimed water use not authorized by the executive director.

2. The reclaimed water provider shall:

   a. ensure construction of reclaimed water distribution systems in accordance with 30 TAC Chapter 217, Design of Domestic Wastewater Systems, and in accordance with approved plans and specifications;

   b. transfer reclaimed water of at least the minimum quality required by this authorization at the point of delivery to the user;

   c. notify the executive director in writing within five (5) days after obtaining knowledge of reclaimed water use not authorized by the executive director; and

   d. not be found in violation of this chapter for the misuse of the reclaimed water by the user if transfer of such water is shut off promptly upon knowledge of misuse regardless of contract provisions.

3. The reclaimed water user shall:

   a. use the reclaimed water in accordance with this authorization; and

   b. maintain and provide records as required by Section V, Record Keeping and Reporting.

IX. Enforcement

If the producer, provider, or user fail to comply with the terms of this authorization, the executive director may take enforcement action provided by the Texas Water Code §26.019 and §26.136.

X. Standard Provisions

A. This authorization is granted in accordance with the rules and orders of the commission and the laws of the state of Texas.

B. Acceptance of this authorization constitutes an acknowledgment and agreement that the producer, provider and user will comply with all the terms, provisions, conditions, limitations and restrictions embodied in this authorization and with the rules and other orders of the commission and the laws of the state of Texas. Agreement is a condition precedent to the granting of this authorization.

Section 3. Classified Segments (Instructions Page 63)

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 63)

Name of the immediate receiving waters: Unnamed tributary to Brushy Creek

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Andrew's Branch; Porter Creek

D. Downstream characteristics

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

☒ Yes ☐ No

If yes, discuss how.

The effluent leaves the discharge pipe and enters into an unnamed tributary of Andrew's Branch, thence to a private lake; thence to Porter Creek; thence to SCS Reservoir No. 6.

E. Normal dry weather characteristics

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

Intermittent streams with perennial pools.

Date and time of observation: 5/5/2014, 1:00 p.m.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 65)

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

Section 3. Classified Segments (Instructions Page 63)

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 63)

Name of the immediate receiving waters: Unnamed tributary to Brushy Creek

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Brushy Creek

D. Downstream characteristics

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

☒ Yes ☐ No

If yes, discuss how.

An unnamed approximately 6-acre, man-made impoundment (agricultural pond) exists within <0.5 miles downstream of the proposed outfall. SCS Pond Site II, an approximately 48 acre man-made impoundment, exists within +/- 3 miles downstream of the proposed outfall.

E. Normal dry weather characteristics

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

Perennial pools with no stream flow.

Date and time of observation: 7/8/2015, 2:30 p.m.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 65)

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WORKSHEET 2.1

STREAM PHYSICAL CHARACTERISTICS AND WORKSHEET

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.

Date of study: 5/5/2015 Time of study: 1:00 p.m.

Stream name: Unnamed tributary of Andrews Branch

Location: Buda, Texas

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

☐ Perennial ☑ Intermittent with perennial pools

1. Data Collection

(Instructions, Page 73)

No. of stream bends:

13 well defined, 26 moderately defined, 53 poorly defined

No. of riffles: 26

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.

Stream flow appears to primarily consist of effluent discharge from Buda WWTP and periodic stormwater conveyance.

Stream transects

Complete the transects downstream of the existing or proposed discharges.

Table 2.1(1) - Stream Transect Records

Stream type at transect*	Transect location	Water surface width (ft)	Stream depths (ft)**
Riffle	A	6.75	0.15, 0.22, 0.52, 0.30
Glide	B	5.5	0.10, 0.38, 0.55, 0.53
Riffle	C	9.25	0.30, 0.42, 0.50, 0.33
Glide	D	6.75	1.10, 0.95, 0.71, 0.48
Pool	E	7.75	0.38, 0.48, 0.77, 0.69
Riffle	F	7.5	0.19, 0.23, 0.13, 0.14

***Enter one of the following (riffle, run, glide, or pool) to indicate the stream type for each transect location. See Instructions, Definitions section. Use a separate row for each entry.**

****Enter the stream depths, measured in feet from the channel bed to the water surface, at 4 to 10 points along each transect. Separate the 4 to 10 measurements with commas. Use a separate row for each transect.**

2. Summarize Measurements

(Instructions, Page 73)

Streambed slope of entire reach (from USGS map in ft./ft.): 1/660

Approximate drainage area above the most downstream transect (from USGS map or county highway map in mi²): 0.29

Length of stream evaluated (in feet): 2,640

Number of lateral transects made: 6

Average stream width (in feet): 7.25

Average stream depth (in feet): 0.44

Average stream velocity (in ft/second): 0.32

Instantaneous stream flow (in ft³/sec): 1.02

Indicate flow measurement method*: electromagnetic handheld

***(VERY IMPORTANT -type of meter, floating chip timed over a fixed distance, etc.)**

Flow fluctuations (minor, moderate, severe): minor

Size of pools (large, small, moderate, none): small

Maximum pool depth (in feet): 2

Total number of stream bends: 92

Number well defined: 13

Number moderately defined: 26

Number poorly defined: 53

Total number of riffles: 26

DOMESTIC WORKSHEET 2.1

STREAM PHYSICAL CHARACTERISTICS AND WORKSHEET

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.

Date of study: 7/8/2015 Time of study: 2:30 p.m.

Stream name: Unnamed tributary of Brushy Creek

Location: Buda, Texas

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

☐ Perennial ☑ Intermittent with perennial pools

1. Data Collection

(Instructions, Page 73)

No. of stream bends:

11 well defined, 16 moderately defined, 20 poorly defined

No. of riffles: 0

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.

Stream appears to convey only stormwater, with perennial pool/small pond detentions. An earthen embankment is located > 1/2 mile downstream of the proposed outfall to impound a livestock pond.

Stream transects

Complete the transects downstream of the existing or proposed discharges.

Table 2.1(1) - Stream Transect Records

Stream type at transect*	Transect location	Water surface width (ft)	Stream depths (ft)**
N/A	A	N/A	N/A
N/A	B	N/A	N/A
N/A	C	N/A	N/A
Pool	D	6.08	0.83, 1.25, 1.1
Pool	E	9.75	0.96, 1.04, 0.625, 0.167

***Enter one of the following (riffle, run, glide, or pool) to indicate the stream type for each transect location. See Instructions, Definitions section. Use a separate row for each entry.**

****Enter the stream depths, measured in feet from the channel bed to the water surface, at 4 to 10 points along each transect. Separate the 4 to 10 measurements with commas. Use a separate row for each transect.**

2. Summarize Measurements

(Instructions, Page 73)

Streambed slope of entire reach (from USGS map in ft./ft.): 1/69.5

Approximate drainage area above the most downstream transect (from USGS map or county highway map in mi²): 0.21

Length of stream evaluated (in feet): 2,640

Number of lateral transects made: 5

Average stream width (in feet): 7.92

Average stream depth (in feet): 0.86

Average stream velocity (in ft/second): N/A

Instantaneous stream flow (in ft³/sec): N/A

Indicate flow measurement method*: electromagnetic handheld

***(VERY IMPORTANT -type of meter, floating chip timed over a fixed distance, etc.)**

Flow fluctuations (minor, moderate, severe): minor

Size of pools (large, small, moderate, none): small

Maximum pool depth (in feet): 2

Total number of stream bends: 47

Number well defined: 11

Number moderately defined: 16

Number poorly defined: 20

Total number of riffles: 0

Amended Report This report replaces all previous versions of this Work Order: 250626.01

Guadalupe-Blanco River Authority

Report of Analysis

For: 422884 - GBRA-Buda
933 E Court St
Seguin, TX 78155

Released By: Kylie Gudgell
Title: Lead Technical Manager

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and If applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the report, and that no information or data have been knowingly withheld that would affect the quality of the data.

This Laboratory is NELAP accredited. Scope: Non-potable water, potable water.

NA = not analyzed

1 Parameter not available for NELAP accreditation at the GBRA
2 Parameter is approved under TCEQ Drinking Water Program

Amended Report This report replaces all previous versions of this Work Order: 250626.01

Lab Sample ID: 250626.01-01 **Collection Date/Time:** 6/26/2025 09:55 AM **Sample Matrix:** Waste Water

Site: Buda TPDES Permit **Receive Date/Time:** 6/26/2025 12:54 PM **Sample Type:** Grab

	Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
	Anions - Chloride	EPA 300.0 Rev. 2.1	275	mg/L	4	4		6/26/2025 02:25 PM	MLH		
	Anions - Nitrate	EPA 300.0 Rev. 2.1	15.7	mg/L	20	1		6/26/2025 03:48 PM	MLH		
	Anions - Sulfate	EPA 300.0 Rev. 2.1	144	mg/L	4	4		6/26/2025 02:25 PM	MLH		
1	Chlorine Residual (field)	Hach 8167/ SM 4500-Cl G	0.260	mg/L	1			6/26/2025 09:55 AM	JM		
	Total Alkalinity	SM 2320 B	76.6	mg CaCO3/L	1	20		6/30/2025 02:46 PM	CS		
1	pH (T.Alkalinity)	SM 2320 B	4.5	SU	1	1		6/30/2025 02:46 PM	CS		
	Conductivity (Lab)	SM 2510 B	1390	µmhos/cm at 25°C	1	70		6/30/2025 01:35 PM	MT		
	Total Dissolved Solids	SM 2540 C	744	mg/L	2	20		6/27/2025 02:52 PM	MD		
	Total Suspended Solids	SM 2540 D	0.60	mg/L	1	0.5		6/27/2025 04:51 PM	MD		
1	pH (Field)	SM 4500 H+B	6.9	SU	1			6/26/2025 09:55 AM	JM		
1	pH (Lab)	SM 4500 H+B	7.3	SU	1	1	Q	6/26/2025 03:46 PM	MT		
	Carbonaceous Biochemical Oxygen Demand (CBOD)	SM 5210 B	1	mg/L	1	1		6/26/2025 04:33 PM	MT	7/1/2025 12:03 PM	MT
1	Dissolved Oxygen (Field)	SWQM Procedures Volume 1	7.5	mg/L	1			6/26/2025 09:55 AM	JM		
1	Temperature (Field)	SWQM Procedures Volume 1	29.0	°C	1			6/26/2025 09:55 AM	JM		

NA = not analyzed

1 Parameter not available for NELAP accreditation at the GBRA

2 Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

Amended Report This report replaces all previous versions of this Work Order: 250626.01

Lab Sample ID: 250626.01-02 **Collection Date/Time:** 6/26/2025 09:55 AM **Sample Matrix:** Waste Water
Site: Buda TPDES Permit **Receive Date/Time:** 6/26/2025 12:54 PM **Sample Type:** Grab

Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
Ammonia as N	EPA 350.1 Rev. 2	< 0.10	mg/L	1	0.1		6/27/2025 12:13 PM	MW		
Total Kjeldahl Nitrogen (TKN)	EPA 351.2 Rev. 2	< 0.20	mg/L	1	0.2		7/2/2025 03:57 PM	MW		
Total Phosphorus	EPA 365.3	0.240	mg/L	1	0.02		6/30/2025 04:27 PM	MW		

Lab Sample ID: 250626.01-03 **Collection Date/Time:** 6/26/2025 09:55 AM **Sample Matrix:** Waste Water
Site: Buda TPDES Permit **Receive Date/Time:** 6/26/2025 12:54 PM **Sample Type:** Grab

Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
[1] Oil and Grease	Subcontract	See Attached Report	mg/L	1			7/2/2025 07:24 AM			

Subcontract methods are tested by an external laboratory. See subcontracted report for further details.

Lab Sample ID: 250626.01-04 **Collection Date/Time:** 6/26/2025 09:55 AM **Sample Matrix:** Waste Water
Site: Buda TPDES Permit **Receive Date/Time:** 6/26/2025 12:54 PM **Sample Type:** Grab

Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
E. coli by Quanti-Tray	IDEXX Colilert 18 hr	< 1	MPN/100mL	1	1		6/26/2025 04:33 PM	CS	6/27/2025 11:59 AM	CS

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA
[2] Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

Amended Report This report replaces all previous versions of this Work Order: 250626.01

Lab Sample ID: 250626.01-05 **Collection Date/Time:** 6/26/2025 09:55 AM **Sample Matrix:** Waste Water

Site: Buda TPDES Permit **Receive Date/Time:** 6/26/2025 12:54 PM **Sample Type:** Grab

	Analyte	Method	Sample Result	DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
[1]	Table 4.0 Domestic Worksheet	Subcontract	See Attached Report	1			6/27/2025 03:48 PM			

Table 4 Domestic Worksheet includes metals. VOCs. Phenols,etc

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA

[2] Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

Amended Report This report replaces all previous versions of this Work Order: 250626.01

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

General Term Definition

%REC	Percent Recovery	LOQ	Limit of Quantitation
%RPD	Relative Percent Difference	LR	Low Range
CCB	Continuing Calibration Verification	MBLK	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
D.F.	Dilution Factor	MS	Matrix Spike
HR	High Range	MSD	Matrix Spike Duplicate
ICB	Initial Calibration Blank	ND	Not Detected
ICV	Initial Calibration Verification	QC	Quality Control
LCS	Laboratory Control Spike	RPL	Reporting Limit
LCSD	Laboratory Control Spike Duplicate		

Qualifier Definition

Q	Sample held beyond the accepted holding time

Order Comments

250626.01	Dioxins and Furans were recollected 8/4/25 due to subcontracted lab error JM 8/19/2025

QC Results

QCBatch ID	QC ID	Parameter	% Recovery / RPD	Control Limits
QC250626.005	250626.01-01: Duplicate 1	Total Dissolved Solids	1.08	0 - 10
	LCS 1	Total Dissolved Solids	95.76	75 - 125
	MBLK 1	Total Dissolved Solids	0.0	0 - 10

NA = not analyzed

1 Parameter not available for NELAP accreditation at the GBRA

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Amended Report This report replaces all previous versions of this Work Order: 250626.01

QC250626.008	250625.03-02: Duplicate 3	Total Suspended Solids	9.63	0 - 15
	250625.05-02: Duplicate 5	Total Suspended Solids	3.61	0 - 15
	250626.04-03: Duplicate 2	Total Suspended Solids	0.8	0 - 15
	250626.06-02: Duplicate 4	Total Suspended Solids	8.18	0 - 15
	250626.08-04: Duplicate 1	Total Suspended Solids	0.47	0 - 15
	LCS 1	Total Suspended Solids	102.0	75 - 125
	LCS 2	Total Suspended Solids	97.2	75 - 125
	LCS 3	Total Suspended Solids	96.4	75 - 125
	LCS 4	Total Suspended Solids	92.4	75 - 125
	LCS 5	Total Suspended Solids	96.8	75 - 125
	MBLK 1	Total Suspended Solids	0.0	0 - 0.5
	MBLK 2	Total Suspended Solids	0.0	0 - 0.5
	MBLK 3	Total Suspended Solids	0.0	0 - 0.5
	MBLK 4	Total Suspended Solids	0.0	0 - 0.5
	MBLK 5	Total Suspended Solids	0.0	0 - 0.5
QC250627.002	250626.05-01: Duplicate 1	pH (Lab)	0.15	0 - 15
	250626.07-01: Duplicate 2	pH (Lab)	0.76	0 - 15
	250626.10-02: Duplicate 3	pH (Lab)	0.29	0 - 15
	CCV 1	pH (Lab)	101.0	75 - 125
	ICV 1	pH (Lab)	100.29	75 - 125
QC250627.004	250618.28-01: MS 1	Anions - Chloride	110.37	80 - 120
	250618.28-01: MS 1	Anions - Sulfate	106.33	80 - 120
	250618.28-01: MSD 1	Anions - Chloride	0.14	0 - 20
	250618.28-01: MSD 1	Anions - Sulfate	0.25	0 - 20
	LCS 1	Anions - Chloride	100.59	90 - 110
	LCS 1	Anions - Sulfate	108.49	90 - 110
	LCSD 1	Anions - Chloride	0.14	0 - 20
	LCSD 1	Anions - Sulfate	0.01	0 - 20
	LOQ 1	Anions - Chloride	108.85	70 - 130
	LOQ 1	Anions - Sulfate	106.94	70 - 130
	MBLK 1	Anions - Chloride	0.0	0 - 1
	MBLK 1	Anions - Sulfate	0.0	
QC250627.009	250618.21-01: MS 2	Anions - Nitrate	100.77	80 - 120
	250618.21-01: MSD 2	Anions - Nitrate	0.0	0 - 20

NA = not analyzed

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933 East Court Street
Seguin, TX 78155
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	250618.28-01: MS 1	Anions - Nitrate	101.69	80 - 120
	250618.28-01: MSD 1	Anions - Nitrate	0.08	0 - 20
	LCS 1	Anions - Nitrate	101.86	90 - 110
	LCS 2	Anions - Nitrate	103.33	90 - 110
	LCSD 1	Anions - Nitrate	2.31	0 - 20
	LCSD 2	Anions - Nitrate	0.52	0 - 20
	LOQ 1	Anions - Nitrate	107.2	70 - 130
	LOQ 2	Anions - Nitrate	95.8	70 - 130
	MBLK 1	Anions - Nitrate	0.0	
	MBLK 2	Anions - Nitrate	0.0	
QC250627.010	250618.22-05: Duplicate 1	E. coli by Quanti-Tray	0.09	
	250618.28-01: Duplicate 2	E. coli by Quanti-Tray	0.21	
	MBLK 1	E. coli by Quanti-Tray	0.0	
QC250630.006	250626.01-01: Duplicate 1	Conductivity (Lab)	0.14	
	LCS 1	Conductivity (Lab)	100.0	
QC250630.007	250618.17-01: MS 1	Ammonia as N	107.96	90 - 110
	250618.17-01: MSD 1	Ammonia as N	3.22	0 - 15
	250624.04-01: MS 2	Ammonia as N	107.76	90 - 110
	250624.04-01: MSD 2	Ammonia as N	7.15	0 - 15
	250624.12-01: MS 3	Ammonia as N	105.83	90 - 110
	250624.12-01: MSD 3	Ammonia as N	2.26	0 - 15
	250626.04-01: MS 4	Ammonia as N	102.39	90 - 110
	250626.04-01: MSD 4	Ammonia as N	2.14	0 - 15
	250626.09-01: MS 5	Ammonia as N	102.41	90 - 110
	250626.09-01: MSD 5	Ammonia as N	0.31	0 - 15
	LCS 1	Ammonia as N	102.36	90 - 110
	LCS 2	Ammonia as N	106.42	90 - 110
	LCS 3	Ammonia as N	103.86	90 - 110
	LCS 4	Ammonia as N	105.26	90 - 110
	LCS 5	Ammonia as N	95.72	90 - 110
	LCSD 1	Ammonia as N	6.78	0 - 15
	LCSD 2	Ammonia as N	1.07	0 - 15
	LCSD 3	Ammonia as N	3.33	0 - 15
	LCSD 4	Ammonia as N	0.8	0 - 15

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA

[2] Parameter is approved under TCEQ Drinking Water Program

Amended Report This report replaces all previous versions of this Work Order: 250626.01

	LCSD 5	Ammonia as N	10.37	0 - 15
	LOQ 1	Ammonia as N	74.15	70 - 130
	MBLK 1	Ammonia as N	-0.03	
	MBLK 2	Ammonia as N	-0.04	
	MBLK 3	Ammonia as N	-0.02	
	MBLK 4	Ammonia as N	-0.02	
	MBLK 5	Ammonia as N	-0.03	
QC250701.005	250626.06-02: Duplicate 1	Carbonaceous Biochemical Oxygen Demand (CBOD)	6.95	0 - 15
	250626.07-02: Duplicate 2	Carbonaceous Biochemical Oxygen Demand (CBOD)	1.3	0 - 15
	CBOD GGA 1	Carbonaceous Biochemical Oxygen Demand (CBOD)	99.49	84.6 - 115.4
	Dilution Blank 1	Carbonaceous Biochemical Oxygen Demand (CBOD)	0.0	
QC250702.004	250618.17-01: MS 1	Total Phosphorus	106.91	80 - 120
	250618.17-01: MSD 1	Total Phosphorus	1.01	0 - 15
	250624.04-01: MS 3	Total Phosphorus	102.47	80 - 120
	250624.04-01: MSD 3	Total Phosphorus	1.83	0 - 15
	250624.10-01: MS 4	Total Phosphorus	106.07	80 - 120
	250624.10-01: MSD 4	Total Phosphorus	0.87	0 - 15
	250625.12-01: MS 2	Total Phosphorus	104.08	80 - 120
	250625.12-01: MSD 2	Total Phosphorus	0.04	0 - 15
	250626.04-01: MS 5	Total Phosphorus	105.63	80 - 120
	250626.04-01: MSD 5	Total Phosphorus	2.3	0 - 15
	LCS 1	Total Phosphorus	101.56	75 - 125
	LCS 2	Total Phosphorus	102.31	75 - 125
	LCS 3	Total Phosphorus	103.17	75 - 125
	LCS 4	Total Phosphorus	103.35	75 - 125
	LCS 5	Total Phosphorus	107.04	75 - 125
	LCSD 1	Total Phosphorus	1.54	0 - 15
	LCSD 2	Total Phosphorus	1.03	0 - 15
	LCSD 3	Total Phosphorus	2.64	0 - 15
	LCSD 4	Total Phosphorus	2.23	0 - 15
	LCSD 5	Total Phosphorus	1.74	0 - 15

NA = not analyzed

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Amended Report This report replaces all previous versions of this Work Order: 250626.01

	LOQ 1	Total Phosphorus	95.0	75 - 125
	LOQ 2	Total Phosphorus	98.9	75 - 125
	LOQ 3	Total Phosphorus	98.2	75 - 125
	MBLK 1	Total Phosphorus	0.0	
	MBLK 2	Total Phosphorus	0.0	
	MBLK 3	Total Phosphorus	0.0	
	MBLK 4	Total Phosphorus	0.0	
	MBLK 5	Total Phosphorus	0.0	
QC250702.006	250625.01-01: MS 1	Total Alkalinity	93.61	75 - 125
	250625.01-01: MSD 1	Total Alkalinity	0.67	0 - 15.4
	LCS 1	Total Alkalinity	103.5	80 - 120
	LCSD 1	Total Alkalinity	0.51	0 - 15.4
	LOQ 1	Total Alkalinity	113.97	75 - 125
	MBLK 1	pH (T.Alkalinity)	4.5	
	MBLK 1	Phenolphthalein Alkalinity	0.0	
	MBLK 1	Total Alkalinity	3.56	0 - 20
QC250703.001	250617.22-01: MS 1	Total Kjeldahl Nitrogen (TKN)	86.17	90 - 110
	250617.22-01: MSD 1	Total Kjeldahl Nitrogen (TKN)	5.48	0 - 15
	250617.22-05: MS 2	Total Kjeldahl Nitrogen (TKN)	93.95	90 - 110
	250617.22-05: MSD 2	Total Kjeldahl Nitrogen (TKN)	2.98	0 - 15
	250618.23-01: MS 3	Total Kjeldahl Nitrogen (TKN)	106.11	90 - 110
	250618.23-01: MSD 3	Total Kjeldahl Nitrogen (TKN)	5.03	0 - 15
	LCS 1	Total Kjeldahl Nitrogen (TKN)	101.35	90 - 110
	LCS 2	Total Kjeldahl Nitrogen (TKN)	95.85	90 - 110
	LCS 3	Total Kjeldahl Nitrogen (TKN)	93.51	90 - 110
	LCSD 1	Total Kjeldahl Nitrogen (TKN)	4.3	0 - 15
	LCSD 2	Total Kjeldahl Nitrogen (TKN)	1.73	0 - 15
	LCSD 3	Total Kjeldahl Nitrogen (TKN)	1.18	0 - 15
	LOQ 1	Total Kjeldahl Nitrogen (TKN)	102.91	70 - 130
	LOQ 2	Total Kjeldahl Nitrogen (TKN)	73.31	70 - 130
	LOQ 3	Total Kjeldahl Nitrogen (TKN)	98.12	70 - 130
	MBLK 1	Total Kjeldahl Nitrogen (TKN)	-0.03	
	MBLK 2	Total Kjeldahl Nitrogen (TKN)	-0.09	
	MBLK 3	Total Kjeldahl Nitrogen (TKN)	-0.07	

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA

[2] Parameter is approved under TCEQ Drinking Water Program

Amended Report This report replaces all previous versions of this Work Order: 250626.01

NA = not analyzed

1 Parameter not available for NELAP accreditation at the GBRA

2 Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

GBRA Laboratory

GBRA COC Form

Qualtrax ID: 17988

Chain-Of-Custody Record

Report To	Customer Acct.#: 422884	Invoice To (if applicable)	
Name: GBRA-Buda		Name:	
Address: PO BOX 216, BUDA, TX 78610		Address:	
Phone #: 512-312-0526		Phone #:	
Email: jmann@gbra.org; emontana@gbra.org		Email:	
Thermometer #: 28	Observed / Corrected Temp(°C): 2.1 / 1.8	Chlorine Check Reagent ID:	Chlorine : Absent/ Present
Sample Iced (Circle One): Yes / No	CoC Page: 1 of 1	pH Paper Reagent ID: 092624-09	
No. of Containers: 43	Containers Intact (Circle One): Yes / No	Residual Chlorine (Total/Free) Results:	

Date Collected	Time Collected (JM 6/26/25)	Matrix	Sx Vol. P=Plastic G=Glass A=Amber	Sample Name/Description	Preservation ID (PID#)/ TCEQ ID Number	Grab / Comp.	Analysis Requested	250626.01 GBRA Sample ID	pH	Preservative	Sub Out
6/26/25	0955	WW	1G-P	Buda TPDES Permit		G	CBOD, TSS, Nitrate, Sulfate, Chloride, TDS, Alk	-01			
		WW	1L-P	Buda TPDES Permit	062625-03	G	Ammonia, TKN, Total Phos	-02	<2	H_2SO_4	
		WW	1L-G	Buda TPDES Permit		G	Oil and Grease	-03	+	H2SO4	Y
		WW	100mL-P	Buda TPDES Permit		G	E. coli	-04		$Na_2S_2O_3$	
							TCEQ Major Permit Renewal See Attached Documentation				
6/26/25	0955	WW	^*	Buda TPDES Permit		G	Full TTO, Metals		+	Various Preservations	Y
		WW	^*	Buda TPDES Permit		G	Phenols		+	Various Preservations	Y
		WW	^*	Buda TPDES Permit		G	Cyanide		+	NaOH	Y
6/26/25	0955	WW				G	pH: 6.93 Temp: 28.99				
		WW				G	Dissolved Oxygen: 7.5	Chlorine Residual: 0.26			

Matrices: WW=Wastewater, DW=Drinking Water, SW=Surface Water, S=Sludge/Soil

Samples marked above as "Sub Out" will be subcontracted to a laboratory that meets the regulatory or end-user requirements of these samples

Expedite Samples: 24hr/Holiday (4x Fee) 48hr/Weekend (3x Fee) 3-5 days (2x Fee) Due Date: _____

Sampler Name (Print): Jenna Mann *		Sampler Signature: *	
Relinquished By:	Date/Time: 6/26/25 1254	Transferred To:	Date/Time: 6/26/2025 12:54
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

NOTES / COMMENTS / SHIP TO:
+pH tested at subcontracted lab

^Containers for outsourced tests provided by subcontracted lab. pH of preserved bottles tested at subcontracted lab

*SPL sampler collected outsourced tests. See SPL COC for testing details. Outsourced testing included on GBRA COC for traceability purposes only

GBRA Laboratory

GBRA COC Form

Qualtrax ID: 17988

Chain-Of-Custody Record

Report To		Invoice To (if applicable)	
Name: GBRA-Buda	Customer Acct.#: 422884	Name:	
Address: PO BOX 216, BUDA, TX 78610		Address:	
Phone #: 512-312-0526		Phone #:	
Email: jmann@gbra.org; dwalker@gbra.org		Email:	
Thermometer #: 28	Observed / Corrected Temp(°C): 18.10 / 18.3	Chlorine Check Reagent ID:	Chlorine : Absent/ Present
Sample Iced (Circle One): Yes / No	CoC Page: 1 of 1	pH Paper Reagent ID:	
No. of Containers: 3	Containers Intact (Circle One): Yes / No	Residual Chlorine (Total/Free) Results: 8	

Date Collected	Time Collected	Matrix	Sx Vol. P=Plastic G=Glass A=Amber	Sample Name/Description	Preservation ID (PID#)/ TCEQ ID Number	Grab / Comp.	Analysis Requested	GBRA Sample ID (2508304.01 JM 8/4/25)	pH	Preservative	Sub Out
8/4/2025	0843	WW	(3) 1L-A	Buda TPDES Permit		G	Dioxins and Furans	-01			Y

Matrices: WW=Wastewater, DW=Drinking Water, SW=Surface Water, S=Sludge/Soil

Samples marked above as "Sub Out" will be subcontracted to a laboratory that meets the regulatory or end-user requirements of these samples

Expedite Samples: 24hr/Holiday (4x Fee) 48hr/Weekend (3x Fee) 3-5 days (2x Fee) Due Date: _____

Sampler Name (Print): Jenna Mack		Sampler Signature:	
Relinquished By:	Date/Time: 08/04/25 0957	Transferred To: Kyle Gudgell	Date/Time: 08/04/25 0957
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

NOTES / COMMENTS / SHIP TO:

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

Project
1152762

GBRL-C

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Printed 07/03/2025
9:15

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
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SAMPLE CROSS REFERENCE

Project
1152762

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Sample	Sample ID	Taken	Time	Received
2422707	*BUDA TPDES PERMIT*	06/26/2025	09:55:00	06/27/2025

Bottle 01 H2SO4 to pH <2 Glass Qt w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 1664B (HEM)	01	1183387	07/02/2025	1183387	07/02/2025

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GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project
1152762

Printed: 07/03/2025

RESULTS

Sample Results

2422707 **BUDA TPDES PERMIT** Received: 06/27/2025

Non-Potable Water Collected by: Client GBRA/Seguin PO: dept= LabInvoices@gbra.org
Taken: 06/26/2025 09:55:00

EPA 1664B (HEM) Prepared: 1183387 07/02/2025 07:24:00 Analyzed 1183387 07/02/2025 07:24:00 MAX

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Oil and Grease (HEM)**	**<4.49**	**mg/L**	4.49			01

Sample Preparation

2422707 **BUDA TPDES PERMIT** Received: 06/27/2025

dept= LabInvoices@gbra.org

06/26/2025

Prepared: 06/27/2025 14:01:20 Calculated 06/27/2025 14:01:20 CAL

z	**Enviro Fee (per Sampling Group)**	**Verified**

EPA 1664B (HEM) Prepared: 1183201 07/02/2025 07:24:00 Analyzed 1183201 07/02/2025 07:24:00 MAX

NELAC	**O&G HEM Started**	**Started**

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Project
1152762

Printed: 07/03/2025

Qualifiers:

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 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

QUALITY CONTROL

GBRL-C

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project
1152762

Printed 07/03/2025

Analytical Set 1183387

EPA 1664B (HEM)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1183387	1.20	0.804	4.00	mg/L	127787182

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1183387	0.0001			grams	127787181
Oil and Grease (HEM)	1183387	0.0002			grams	127787206

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Oil and Grease (HEM)	1183387	33.3	40.0	mg/L	83.2	78.0 - 114	127787183

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Oil and Grease (HEM)	2423177	38.5	0	1.76	40.0	78.0 - 114	96.2		mg/L		20.0

* 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); LCS - Laboratory Control Sample (reagent water or other blank matrices that is spiked with a known quantity of target analyte(s) and carried through preparation and analytical procedures exactly like a sample; typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.); MS -Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.)

1152762 CoC Print Group 001 of 001

GBRA Laboratory

GBRA
Guadalupe Blanco River Authority

GBRA COC Form

Qualtrax ID: 17988

ACCREDITED IN ACCORDANCE WITH

Chain-Of-Custody Record

Report To	Customer Acct.#:	Invoice To (If applicable)	
Name: GBRA Kylie Gudgell		Name:	
Address: 933 East Court St Seguin		Address:	
Phone #: 830-379-5822		Phone #:	
Email: labreports@gbra.org		Email: labsubinvoices@gbra.org	
Thermometer #:	Observed / Corrected Temp(°C): /	Chlorine Check Reagent ID:	Chlorine : Absent/ Present
Sample Iced (Circle One): Yes / No	CoC Page: of	pH Paper Reagent ID:	
No. of Containers:	Containers Intact (Circle One): Yes / No	Residual Chlorine (Total/Free) Results:	

Date Collected	Time Collected	Matrix	Sx Vol. P=Plastic G=Glass A=Amber	Sample Name/Description	Preservation ID (PID#)/ TCEQ ID Number	Grab / Comp.	Analysis Requested	GBRA Sample ID	pH	Preservative	Sub Out
6/26/25	0955	WW	1L-G	Buda TPDES Permit		G	Oil and Grease	2422707		H2SO4	

Matrices: WW=Wastewater, DW=Drinking Water, SW=Surface Water, S=Sludge/Soil

Samples marked above as "Sub Out" will be subcontracted to a laboratory that meets the regulatory or end-user requirements of these samples

Expedite Samples: 24hr/Holiday (4x Fee) 48hr/Weekend (3x Fee) 3-5 days (2x Fee) Due Date:

Sampler Name (Print): Jenna Mack		Sampler Signature:	
Relinquished By:	Date/Time: 6/26/25 1023	Transferred To:	Date/Time: 6/26/25 10:23
Relinquished By:	Date/Time: 6/27/25 1040	Received By: Kieristen Rossum - SPL, Inc.	Date/Time: 6/27/25 1040
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

NOTES / COMMENTS / SHIP TO:
+pH tested at subcontracted lab

Status: Published

Qualtrax ID: 17988

COOLER CHECKIN

Region/Driver/Client	Centex
Date / Time:	6/27 / 1040
Cooler:	of
Shipping Company:	TPX

Temp Label:

6/27 1040 KR
Date Time Tech
Temp: 0.0 1.0 C
Therm#: 7736 Corr Fact: 0.1 C

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Project
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GBRL-C

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

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1

SAMPLE CROSS REFERENCE

Project
1152756

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Sample	Sample ID	Taken	Time	Received
2422662	*Domestic Worksheet 4.0*	06/26/2025	09:55:00	06/27/2025

Bottle 01 Polyethylene 1/2 gal (White), Q
Bottle 02 Polyethylene Quart, Q
Bottle 03 Glass Qt w/Teflon lined lid, Q
Bottle 04 H2SO4 to pH <2 Glass Qt w/Teflon lined lid, Q
Bottle 05 Glass Qt w/Teflon lined lid, Q
Bottle 06 Amber 32 Oz, Q
Bottle 07 Amber 32 Oz, Q
Bottle 08 Amber 32 Oz, Q
Bottle 09 Amber 32 Oz, Q
Bottle 10 Amber 32 Oz, Q
Bottle 11 Amber 32 Oz, Q
Bottle 12 Amber 32 Oz, Q
Bottle 13 Amber 32 Oz, Q
Bottle 14 Amber 32 Oz, Q
Bottle 15 Amber 32 Oz, Q
Bottle 16 Amber 32 Oz, Q
Bottle 17 Amber 32 Oz, Q
Bottle 19 16 oz HNO3 Metals Plastic, Q
Bottle 20 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4), Q
Bottle 21 NaOH to pH >12 Polyethylene 250 mL/amber, Q
Bottle 22 NaOH to pH >12 Polyethylene 250 mL/amber, Q
Bottle 23 Cr+6 Preserved 250 Polyethylene
Bottle 24 Ascorbic Acid - 60ml vial (Zero Headspace), Q
Bottle 25 Ascorbic Acid - 60ml vial (Zero Headspace), Q
Bottle 26 Ascorbic Acid - 60ml vial (Zero Headspace), Q
Bottle 27 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 28 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 29 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 30 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 31 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 32 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 33 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace), Q
Bottle 34 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace), Q
Bottle 35 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace), Q
Bottle 36 Glass /clean metals w/HCl, Q
Bottle 37 Prepared Bottle: Special Preparation
Bottle 38 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1182714) Volume: 10.00000 mL <== Derived from 21 (5 ml)
Bottle 39 Prepared Bottle: ICP Preparation for Metals (Batch 1182727) Volume: 50.00000 mL <== Derived from 19 (50 ml)
Bottle 40 Prepared Bottle: ICP Preparation for Metals (Batch 1182727) Volume: 50.00000 mL <== Derived from 19 (50 ml)
Bottle 41 Prepared Bottle: ICP Preparation for Metals (Batch 1182727) Volume: 50.00000 mL <== Derived from 19 (50 ml)

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SAMPLE CROSS REFERENCE

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Bottle 42 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1182780) Volume: 10.00000 mL <== Derived from 37 (5 ml)
Bottle 43 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1182783) Volume: 6.00000 mL <== Derived from 20 (6 ml)
Bottle 44 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1182867) Volume: 1.00000 mL <== Derived from 11 (928 ml)
Bottle 45 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1182868) Volume: 1.00000 mL <== Derived from 11 (928 ml)
Bottle 46 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1182869) Volume: 1.00000 mL <== Derived from 11 (928 ml)
Bottle 47 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1182870) Volume: 1.00000 mL <== Derived from 11 (928 ml)
Bottle 48 Prepared Bottle: 2 mL Autosampler Vial (Batch 1182875) Volume: 1.00000 mL <== Derived from 09 (925 ml)
Bottle 49 Prepared Bottle: 2 mL Autosampler Vial (Batch 1183076) Volume: 5.00000 mL <== Derived from 08 (908 ml)
Bottle 50 Prepared Bottle: 2 mL Autosampler Vial (Batch 1183082) Volume: 10.00000 mL <== Derived from 14 (954 ml)
Bottle 51 Prepared Bottle: Mercury Preparation for Metals (Batch 1183417) Volume: 50.00000 mL <== Derived from 36 (47 ml)
Bottle 52 Prepared Bottle: 2 mL Autosampler Vial (Batch 1184059) Volume: 1.00000 mL <== Derived from 06 (890 ml)
Bottle 53 Prepared Bottle: 2 mL Autosampler Vial (Batch 1184167) Volume: 1.00000 mL <== Derived from 04 (842 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	45	1182868	06/30/2025	1183353	07/01/2025
EPA 608.3	45	1182868	06/30/2025	1183358	07/01/2025
EPA 615	50	1183082	07/01/2025	1183915	07/08/2025
EPA 632	44	1182867	06/30/2025	1187766	07/17/2025
1613			07/29/2025		07/29/2025
EPA 8015C	01	1184165	07/08/2025	1184165	07/08/2025
EPA 300.0 2.1	01	1183336	06/27/2025	1183336	06/27/2025
EPA 604.1	49	1183076	07/01/2025	1185463	07/02/2025
EPA 617	45	1182868	06/30/2025	1183351	07/01/2025
EPA 625.1	48	1182875	06/30/2025	1183932	07/03/2025
EPA 624.1	27	1182898	06/27/2025	1182898	06/27/2025
EPA 624.1	33	1182899	06/27/2025	1182899	06/27/2025
EPA 614	46	1182869	06/30/2025	1184709	07/01/2025
EPA 624.1	30	1183938	07/07/2025	1183938	07/07/2025
ASTM D7065-17	53	1184167	07/08/2025	1184715	07/10/2025
TX 1001	52	1184059	07/08/2025	1185733	07/16/2025
EPA 200.8 5.4	39	1182727	06/28/2025	1183192	07/01/2025
EPA 200.8 5.4	39	1182727	06/28/2025	1182985	06/30/2025
EPA 245.7 2	51	1183417	07/03/2025	1183515	07/03/2025
EPA 625.1	48	1182875	06/30/2025	1184406	07/08/2025
SM 4500-CN$^-$ G-2016			07/01/2025		07/01/2025
SM 4500-CN$^-$ G-2016	42	1182780	06/30/2025	1182859	06/30/2025
SM 4500-CN$^-$ E-2016	38	1182714	06/28/2025	1182858	06/30/2025
Calculation			07/02/2025		07/02/2025
SM 3500-Cr B-2011	23	1182938	06/30/2025	1182938	06/30/2025
SM 3500-Cr B-2011		1182669	06/26/2025	1182669	06/26/2025
EPA 420.4 1	43	1182783	06/30/2025	1183042	07/01/2025

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SAMPLE CROSS REFERENCE

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1152756

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EPA 622	46	1182869	06/30/2025	1184708	07/01/2025	

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Printed: 07/30/2025

RESULTS

Sample Results

2422662 **Domestic Worksheet 4.0** Received: 06/27/2025

Non-Potable Water | Collected by: DEL | SPL Kilgore | PO: dept= LabInvoices@gbra.org
Taken: 06/26/2025 09:55:00

Prepared: 06/27/2025 13:30:39 Calculated 06/27/2025 13:30:39 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	SUB Shipped	Verified					

Prepared: 1182668 06/26/2025 10:26:00 Analyzed 1182668 06/26/2025 10:26:00 DEL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Field Cl2 Check for CNa	NEG					

Prepared: 1182670 06/26/2025 10:10:00 Analyzed 1182670 06/26/2025 10:10:00 DEL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Field Sulfide Check for CNa	NEG	mg/L				

1613 Prepared: 07/29/2025 16:00:00 Analyzed 07/29/2025 16:00:00 CCP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Dioxins and Furans Subcontract	Lab Error				ION1	

ASTM D7065-17 Prepared: 1184167 07/08/2025 14:45:00 Analyzed 1184715 07/10/2025 19:47:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Nonylphenol	<0.0356	mg/L	0.0356		25154-52-3	53

Calculation Prepared: 07/02/2025 12:30:57 Calculated 07/02/2025 12:30:57 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trivalent Chromium	<0.003	mg/L	0.003		16065-83-1	

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Printed: 07/30/2025

2422662 **Domestic Worksheet 4.0** Received: 06/27/2025

Non-Potable Water | Collected by: DEL | SPL Kilgore | PO: dept= LabInvoices@gbra.org
Taken: 06/26/2025 09:55:00

EPA 200.8 5.4 Prepared: 1182727 06/28/2025 13:00:00 Analyzed 1182985 06/30/2025 15:06:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Aluminum, Total	0.118	mg/L	0.005		7429-90-5	39
NELAC	Arsenic, Total	<0.000902	mg/L	0.000902		7440-38-2	39
NELAC	Barium, Total	0.0291	mg/L	0.003		7440-39-3	39
NELAC	Beryllium, Total	<0.000162	mg/L	0.000162		7440-41-7	39
NELAC	Cadmium, Total	<0.001	mg/L	0.001		7440-43-9	39
NELAC	Copper, Total	0.00436	mg/L	0.001		7440-50-8	39
NELAC	Lead, Total	<0.0005	mg/L	0.0005		7439-92-1	39
NELAC	Nickel, Total	0.002	mg/L	0.001		7440-02-0	39
NELAC	Selenium, Total	<0.005	mg/L	0.005		7782-49-2	39
NELAC	Thallium, Total	<0.000966	mg/L	0.000966		7440-28-0	39
NELAC	Zinc, Total	0.0256	mg/L	0.001		7440-66-6	39

EPA 200.8 5.4 Prepared: 1182727 06/28/2025 13:00:00 Analyzed 1183192 07/01/2025 17:21:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Antimony, Total	<0.003	mg/L	0.003		7440-36-0	39
NELAC	Chromium, Total	0.00141	mg/L	0.001		7440-47-3	39
NELAC	Silver, Total	<0.0005	mg/L	0.0005		7440-22-4	39

EPA 245.7 2 Prepared: 1183417 07/03/2025 09:30:00 Analyzed 1183515 07/03/2025 12:10:00 MP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury, Total (low level)	<0.00000426	mg/L	0.00000426		7439-97-6	51

EPA 300.0 2.1 Prepared: 1183336 06/27/2025 15:48:00 Analyzed 1183336 06/27/2025 15:48:00 KRA

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Fluoride	<0.5	mg/L	0.5			01
NELAC	Nitrate-Nitrogen Total	17.3	mg/L	0.100		14797-55-8	01

EPA 420.4 1 Prepared: 1182783 06/30/2025 08:53:33 Analyzed 1183042 07/01/2025 08:40:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phenolics, Total Recoverable	0.015	mg/L	0.005			43

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Printed: 07/30/2025

2422662 **Domestic Worksheet 4.0** Received: 06/27/2025

Non-Potable Water | Collected by: DEL | SPL Kilgore | PO: dept= LabInvoices@gbra.org
Taken: 06/26/2025 09:55:00

EPA 604.1 Prepared: 1183076 07/01/2025 13:30:00 Analyzed 1185463 07/02/2025 19:14:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Hexachlorophene	<0.00275	mg/L	0.00275		70-30-4	49

EPA 608.3 Prepared: 1182868 06/30/2025 14:15:00 Analyzed 1183353 07/01/2025 21:42:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDD	<0.0000108	mg/L	0.0000108		72-54-8	45
NELAC	4,4-DDE	<0.0000108	mg/L	0.0000108		72-55-9	45
NELAC	4,4-DDT	<0.0000108	mg/L	0.0000108		50-29-3	45
NELAC	Aldrin	<0.00000001	mg/L	0.00000001		309-00-2	45
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.0000108	mg/L	0.0000108		319-84-6	45
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.0000108	mg/L	0.0000108		319-85-7	45
NELAC	Chlordane	<0.000108	mg/L	0.000108		57-74-9	45
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.0000108	mg/L	0.0000108		319-86-8	45
NELAC	Dieldrin	<0.0000108	mg/L	0.0000108		60-57-1	45
NELAC	Endosulfan I (alpha)	<0.00000001	mg/L	0.00000001		959-98-8	45
NELAC	Endosulfan II (beta)	<0.0000108	mg/L	0.0000108		33213-65-9	45
NELAC	Endosulfan sulfate	<0.0000108	mg/L	0.0000108		1031-07-8	45
NELAC	Endrin	<0.0000108	mg/L	0.0000108		72-20-8	45
NELAC	Endrin aldehyde	<0.0000108	mg/L	0.0000108		7421-93-4	45
NELAC	Gamma-BHC(Lindane)	<0.0000108	mg/L	0.0000108		58-89-9	45
NELAC	Heptachlor	<0.00000001	mg/L	0.00000001		76-44-8	45
NELAC	Heptachlor epoxide	<0.00000001	mg/L	0.00000001		1024-57-3	45
NELAC	PCB-1016	<0.0002	mg/L	0.0002		12674-11-2	45
NELAC	PCB-1221	<0.0002	mg/L	0.0002		11104-28-2	45
NELAC	PCB-1232	<0.0002	mg/L	0.0002		11141-16-5	45
NELAC	PCB-1242	<0.0002	mg/L	0.0002		53469-21-9	45
NELAC	PCB-1248	<0.0002	mg/L	0.0002		12672-29-6	45
NELAC	PCB-1254	<0.0002	mg/L	0.0002		11097-69-1	45
NELAC	PCB-1260	<0.0002	mg/L	0.0002	X	11096-82-5	45
NELAC	Toxaphene	<0.000108	mg/L	0.000108		8001-35-2	45

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2422662 **Domestic Worksheet 4.0** Received: 06/27/2025

Non-Potable Water Collected by: DEL SPL Kilgore PO: dept= LabInvoices@gbra.org
Taken: 06/26/2025 09:55:00

EPA 614 Prepared: 1182869 06/30/2025 14:15:00 Analyzed 1184709 07/01/2025 22:27:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0000539	mg/L	0.0000539	X	86-50-0	46
NELAC	Demeton	<0.0000539	mg/L	0.0000539		8065-48-3	46
NELAC	Diazinon	<0.0000539	mg/L	0.0000539		333-41-5	46
NELAC	Malathion	<0.0000539	mg/L	0.0000539		121-75-5	46
NELAC	Parathion, ethyl	<0.0000539	mg/L	0.0000539		56-38-2	46
NELAC	Parathion, methyl	<0.0000431	mg/L	0.0000431		298-00-0	46

EPA 615 Prepared: 1183082 07/01/2025 14:15:00 Analyzed 1183915 07/08/2025 00:41:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.000524	mg/L	0.000524		94-75-7	50
NELAC	2,4,5-TP (Silvex)	<0.0003	mg/L	0.0003		93-72-1	50

EPA 617 Prepared: 1182868 06/30/2025 14:15:00 Analyzed 1183351 07/01/2025 21:42:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kelthane (Dicofol)	<0.000108	mg/L	0.000108		115-32-2	45
z	Methoxychlor	<0.0000108	mg/L	0.0000108		72-43-5	45
z	Mirex	<0.0000108	mg/L	0.0000108		2385-85-5	45

EPA 622 Prepared: 1182869 06/30/2025 14:15:00 Analyzed 1184708 07/01/2025 22:27:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chlorpyrifos	<0.0000431	mg/L	0.0000431		2921-88-2	46

EPA 624.1 Prepared: 1182898 06/27/2025 18:14:00 Analyzed 1182898 06/27/2025 18:14:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Acrolein	<0.0020	mg/L	0.0020	S	107-02-8	27
NELAC	Acrylonitrile	<0.0010	mg/L	0.0010		107-13-1	27

EPA 624.1 Prepared: 1182899 06/27/2025 18:36:00 Analyzed 1182899 06/27/2025 18:36:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	(MTBE) tert-Butylmethylether	<0.0010	mg/L	0.0010		1634-04-4	33

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2422662 Domestic Worksheet 4.0 — Received: 06/27/2025

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Taken: 06/26/2025 09:55:00

EPA 624.1 — Prepared: 1182899 06/27/2025 18:36:00 — Analyzed 1182899 06/27/2025 18:36:00 — DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,1,1-Trichloroethane	<0.0010	mg/L	0.0010		71-55-6	33
NELAC	1,1,2,2-Tetrachloroethane	<0.0010	mg/L	0.0010		79-34-5	33
NELAC	1,1,2-Trichloroethane	<0.0010	mg/L	0.0010		79-00-5	33
NELAC	1,1-Dichloroethane	<0.0010	mg/L	0.0010		75-34-3	33
NELAC	1,1-Dichloroethylene	<0.0010	mg/L	0.0010		75-35-4	33
NELAC	1,2-Dibromoethane (EDB)	<0.0010	mg/L	0.0010		106-93-4	33
NELAC	1,2-Dichloroethane	<0.0010	mg/L	0.0010		107-06-2	33
NELAC	1,2-Dichloropropane	<0.0010	mg/L	0.0010		78-87-5	33
NELAC	2-Chloroethylvinyl ether	<0.0010	mg/L	0.0010		110-75-8	33
NELAC	Benzene	<0.0010	mg/L	0.0010		71-43-2	33
NELAC	Bromodichloromethane	0.00832	mg/L	0.0010		75-27-4	33
NELAC	Bromoform	<0.0010	mg/L	0.0010		75-25-2	33
NELAC	Bromomethane (Methyl Bromi	<0.0010	mg/L	0.0010		74-83-9	33
NELAC	Carbon Tetrachloride	<0.0010	mg/L	0.0010		56-23-5	33
NELAC	Chlorobenzene	<0.0010	mg/L	0.0010		108-90-7	33
NELAC	Chloroethane	<0.0010	mg/L	0.0010		75-00-3	33
NELAC	Chloroform	0.0387	mg/L	0.0010		67-66-3	33
NELAC	Chloromethane (Methyl Chloride)	<0.0010	mg/L	0.0010		74-87-3	33
NELAC	cis-1,3-Dichloropropene	<0.0010	mg/L	0.0010		10061-01-5	33
NELAC	Dibromochloromethane	0.00134	mg/L	0.0010		124-48- 1	33
NELAC	Dichloromethane	<0.0010	mg/L	0.0010		75-09-2	33
NELAC	Ethylbenzene	<0.0010	mg/L	0.0010		100-41-4	33
NELAC	m-Dichlorobenzene (1,3-DCB)	<0.0010	mg/L	0.0010		541-73-1	33
NELAC	Methyl ethyl ketone (Butanone)	<0.0010	mg/L	0.0010		78-93-3	33
NELAC	o-Dichlorobenzene (1,2-DCB)	<0.0010	mg/L	0.0010		95-50-1	33
NELAC	p-Dichlorobenzene (1,4-DCB)	<0.0010	mg/L	0.0010		106-46-7	33
NELAC	Tetrachloroethylene	<0.0010	mg/L	0.0010		127-18-4	33
NELAC	Toluene	<0.0010	mg/L	0.0010		108-88-3	33
NELAC	trans-1,2-Dichloroethylene	<0.0010	mg/L	0.0010		156-60-5	33
NELAC	trans-1,3-Dichloropropene	<0.0010	mg/L	0.0010		10061-02-6	33
NELAC	Trichloroethylene	<0.0010	mg/L	0.0010		79-01-6	33
NELAC	Vinyl chloride	<0.0010	mg/L	0.0010		75-01-4	33

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Taken: 06/26/2025 09:55:00

EPA 624.1 — Prepared: 1182899 06/30/2025 18:19:02 — Calculated 1182899 06/30/2025 18:19:02 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trihalomethanes	0.04836	mg/L	0.001			33

EPA 624.1 — Prepared: 1183938 07/07/2025 17:56:00 — Analyzed 1183938 07/07/2025 17:56:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Epichlorohydrin	<0.0200	mg/L	0.0200		106-89-8	30

EPA 625.1 — Prepared: 1182875 06/30/2025 14:35:00 — Analyzed 1183932 07/03/2025 18:28:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<0.00108	mg/L	0.00108		95-94-3	48
NELAC	1,2,4-Trichlorobenzene	<0.00108	mg/L	0.00108		120-82-1	48
NELAC	1,2-Dichlorobenzene	<0.00378	mg/L	0.00378		95-50-1	48
NELAC	1,2-DPH (as azobenzene)	<0.00108	mg/L	0.00108		122-66-7	48
NELAC	1,3-Dichlorobenzene	<0.00108	mg/L	0.00108		541-73-1	48
NELAC	1,4-Dichlorobenzene	<0.00108	mg/L	0.00108		106-46-7	48
NELAC	2,4,5-Trichlorophenol	<0.00108	mg/L	0.00108		95-95-4	48
NELAC	2,4,6-Trichlorophenol	<0.00108	mg/L	0.00108		88-06-2	48
NELAC	2,4-Dichlorophenol	<0.00108	mg/L	0.00108		120-83-2	48
NELAC	2,4-Dimethylphenol	<0.00757	mg/L	0.00757	S	105-67-9	48
NELAC	2,4-Dinitrophenol	<0.00216	mg/L	0.00216		51-28-5	48
NELAC	2,4-Dinitrotoluene	<0.00108	mg/L	0.00108		121-14-2	48
NELAC	2,6-Dinitrotoluene	<0.00108	mg/L	0.00108		606-20-2	48
NELAC	2-Chloronaphthalene	<0.00108	mg/L	0.00108		91-58-7	48
NELAC	2-Chlorophenol	<0.00108	mg/L	0.00108		95-57-8	48
NELAC	2-Methylphenol (o-Cresol)	<0.00108	mg/L	0.00108		95-48-7	48
NELAC	2-Nitrophenol	<0.00108	mg/L	0.00108		88-75-5	48
NELAC	3&4-Methylphenol (m&p-Cresol)	<0.00108	mg/L	0.00108		MEPH34	48
NELAC	3,3'-Dichlorobenzidine	<0.00108	mg/L	0.00108		91-94-1	48
NELAC	4,6-Dinitro-2-methylphenol	<0.00216	mg/L	0.00216		534-52-1	48
NELAC	4-Bromophenyl phenyl ether	<0.00108	mg/L	0.00108		101-55-3	48
NELAC	4-Chlorophenyl phenyl ethe	<0.00108	mg/L	0.00108		7005-72-3	48
NELAC	4-Nitrophenol	<0.00108	mg/L	0.00108		100-02-7	48
NELAC	Acenaphthene	<0.00108	mg/L	0.00108		83-32-9	48
NELAC	Acenaphthylene	<0.00108	mg/L	0.00108		208-96-8	48

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2422662 Domestic Worksheet 4.0 — Received: 06/27/2025

Non-Potable Water — Collected by: DEL — SPL Kilgore — PO: dept= LabInvoices@gbra.org
Taken: 06/26/2025 09:55:00

EPA 625.1 — Prepared: 1182875 06/30/2025 14:35:00 — Analyzed 1183932 07/03/2025 18:28:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Aniline	<0.00757	mg/L	0.00757	S	62-53-3	48
NELAC	Anthracene	<0.00108	mg/L	0.00108		120-12-7	48
NELAC	Benzidine	<0.00162	mg/L	0.00162		92-87-5	48
NELAC	Benzo(a)anthracene	<0.00108	mg/L	0.00108		56-55-3	48
NELAC	Benzo(a)pyrene	<0.00108	mg/L	0.00108		50-32-8	48
NELAC	Benzo(b)fluoranthene	<0.00108	mg/L	0.00108		205-99-2	48
NELAC	Benzo(ghi)perylene	<0.00216	mg/L	0.00216		191-24-2	48
NELAC	Benzo(k)fluoranthene	<0.00108	mg/L	0.00108		207-08-9	48
NELAC	Benzyl Butyl phthalate	<0.00108	mg/L	0.00108		85-68-7	48
NELAC	Bis(2-chloroethoxy)methane	<0.00108	mg/L	0.00108		111-91-1	48
NELAC	Bis(2-chloroethyl)ether	<0.00108	mg/L	0.00108		111-44-4	48
NELAC	Bis(2-chloroisopropyl)ether	<0.00108	mg/L	0.00108		108-60-1	48
NELAC	Bis(2-ethylhexyl)phthalate	<0.0027	mg/L	0.0027		117-81-7	48
NELAC	Chrysene (Benzo(a)phenanthrene)	<0.00108	mg/L	0.00108		218-01-9	48
NELAC	Dibenz(a,h)anthracene	<0.00108	mg/L	0.00108		53-70-3	48
NELAC	Diethyl phthalate	<0.00108	mg/L	0.00108		84-66-2	48
NELAC	Dimethyl phthalate	<0.00108	mg/L	0.00108		131-11-3	48
NELAC	Di-n-butylphthalate	<0.00108	mg/L	0.00108		84-74-2	48
NELAC	Di-n-octylphthalate	<0.0027	mg/L	0.0027		117-84-0	48
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<0.00108	mg/L	0.00108		206-44-0	48
NELAC	Fluorene	<0.00108	mg/L	0.00108		86-73-7	48
NELAC	Hexachlorobenzene	<0.00108	mg/L	0.00108		118-74-1	48
NELAC	Hexachlorobutadiene	<0.00108	mg/L	0.00108		87-68-3	48
NELAC	Hexachlorocyclopentadiene	<0.00108	mg/L	0.00108		77-47-4	48
NELAC	Hexachloroethane	<0.00108	mg/L	0.00108		67-72-1	48
NELAC	Indeno(1,2,3-cd)pyrene	<0.00216	mg/L	0.00216		193-39-5	48
NELAC	Isophorone	<0.00108	mg/L	0.00108		78-59-1	48
NELAC	Naphthalene	<0.00108	mg/L	0.00108		91-20-3	48
NELAC	Nitrobenzene	<0.00108	mg/L	0.00108		98-95-3	48
NELAC	n-Nitrosodiethylamine	<0.0027	mg/L	0.0027	X	55-18-5	48
NELAC	N-Nitrosodimethylamine	<0.00108	mg/L	0.00108		62-75-9	48
NELAC	n-Nitroso-di-n-butylamine	<0.00108	mg/L	0.00108		924-16-3	48
NELAC	N-Nitrosodi-n-propylamine	<0.00108	mg/L	0.00108		621-64-7	48
NELAC	N-Nitrosodiphenylamine (as DPA	<0.00108	mg/L	0.00108		86-30-6	48
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<0.00108	mg/L	0.00108		59-50-7	48

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Taken: 06/26/2025 09:55:00

EPA 625.1 Prepared: 1182875 06/30/2025 14:35:00 Analyzed 1183932 07/03/2025 18:28:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Pentachlorobenzene	<0.00108	mg/L	0.00108		608-93-5	48
NELAC	Pentachlorophenol	<0.00108	mg/L	0.00108		87-86-5	48
NELAC	Phenanthrene	<0.00108	mg/L	0.00108		85-01-8	48
NELAC	Phenol	<0.00108	mg/L	0.00108		108-95-2	48
NELAC	Pyrene	<0.00108	mg/L	0.00108		129-00-0	48
NELAC	Pyridine	<0.00108	mg/L	0.00108		110-86-1	48

EPA 625.1 Prepared: 1182875 06/30/2025 14:35:00 Analyzed 1184406 07/08/2025 17:51:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Bisphenol A	<0.0108	mg/L	0.0108		80-05-7	48

EPA 625.1 Prepared: 1182875 06/30/2025 14:35:00 Calculated 1183932 07/09/2025 06:54:59 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cresols Total	<0.00108	mg/L	0.00108		1319-77-3, etc.	48

EPA 632 Prepared: 1182867 06/30/2025 14:15:00 Analyzed 1187766 07/17/2025 01:20:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Carbaryl (Sevin)	<0.00269	mg/L	0.00269		63-25-2	44
z	Diuron	<0.0000485	mg/L	0.0000485		330-54-1	44

EPA 8015C Prepared: 1184165 07/08/2025 19:52:00 Analyzed 1184165 07/08/2025 19:52:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ethylene Glycol	<50.0	mg/L	50.0		107-21-1	01

SM 3500-Cr B-2011 Prepared: 1182669 06/26/2025 10:28:00 Analyzed 1182669 06/26/2025 10:28:00 DEL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Hex Cr, Field Preservation	<0.0030	mg/L	0.0030		18540-29-9	

SM 3500-Cr B-2011 Prepared: 1182938 06/30/2025 07:30:00 Analyzed 1182938 06/30/2025 07:30:00 ALB

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Non-Potable Water | Collected by: DEL | SPL Kilgore | PO: dept= LabInvoices@gbra.org
Taken: 06/26/2025 09:55:00

SM 3500-Cr B-2011 Prepared: 1182938 06/30/2025 07:30:00 Analyzed 1182938 06/30/2025 07:30:00 ALB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Hexavalent Chromium**	**<0.0030**	**mg/L**	0.0030		**18540-29-9**	23

SM 4500-CN⁻ E-2016 Prepared: 1182714 06/28/2025 09:12:09 Analyzed 1182858 06/30/2025 09:43:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide, total**	**0.0078**	**mg/L**	0.005			38

SM 4500-CN⁻ G-2016 Prepared: 07/01/2025 10:26:00 Calculated 07/01/2025 10:26:00 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide - Available/Amenable**	**0.0028**	**mg/L**	0.005	J		

SM 4500-CN⁻ G-2016 Prepared: 1182780 06/30/2025 08:26:32 Analyzed 1182859 06/30/2025 09:43:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide After Chlorination**	**<0.005**	**mg/L**	0.005			42

TX 1001 Prepared: 1184059 07/08/2025 14:00:00 Analyzed 1185733 07/16/2025 21:07:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Tributyltin hydride**	**<0.00000787**	**mg/L**	0.00000787		**688-73-3**	52

Sample Preparation

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06/26/2025

Prepared: 06/27/2025 13:30:39 Calculated 06/27/2025 13:30:39 CAL

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			Prepared:		06/27/2025	13:30:39	Calculated	06/27/2025	13:30:39 CAL
z	DW Volatiles Dechlorination Vial	Verified							
z	LL Mercury Test Prep	Verified							
			Prepared:		06/27/2025	14:01:20	Calculated	06/27/2025	14:01:20 CAL
z	Enviro Fee (per Sampling Group)	Verified							
			Prepared:		07/30/2025	06:36:00	Analyzed	07/30/2025	06:36:00 WJP
z	Check Limits	Completed							
	ASTM D7065-17		Prepared:	1184167	07/08/2025	14:45:00	Analyzed	1184715	07/10/2025 19:47:00 PM1
z	Nonyl Phenol Expansion	Entered							53
	EPA 200.2 2.8		Prepared:	1182727	06/28/2025	13:00:00	Analyzed	1182727	06/28/2025 13:00:00 TES
z	Liquid Metals Digestion	50/50	ml						19
	EPA 245.7 2		Prepared:	1183417	07/03/2025	09:30:00	Analyzed	1183417	07/03/2025 09:30:00 MP1
NELAC	Low Level Mercury Liquid Metals	50/47	ml						36
	EPA 420.4 1		Prepared:	1182783	06/30/2025	08:53:33	Analyzed	1182783	06/30/2025 08:53:33 MEG
NELAC	Phenol Distillation	6/6	ml						20

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EPA 604.1		*Prepared:*	*1183076*	*07/01/2025*	*13:30:00*	*Analyzed*	*1183076*	*07/01/2025*	*13:30:00*	*CRS*
	Hexachlorophene Extraction	**5/908**	**ml**							08
EPA 604.1		*Prepared:*	*1183076*	*07/01/2025*	*13:30:00*	*Analyzed*	*1185463*	*07/02/2025*	*19:14:00*	*BRU*
	Hexachlorophene Expansion	**Entered**						**70-30-4**		49
EPA 608.3		*Prepared:*	*1182868*	*06/30/2025*	*14:15:00*	*Analyzed*	*1182868*	*06/30/2025*	*14:15:00*	*CRS*
	Liquid-Liquid Extr. W/Hex Ex	**1/928**	**ml**							11
EPA 608.3		*Prepared:*	*1182868*	*06/30/2025*	*14:15:00*	*Analyzed*	*1183358*	*07/01/2025*	*21:42:00*	*KAP*
NELAC	**Polychlorinated Biphenyls**	**Entered**								45
NELAC	**TTO Pesticides**	**Entered**								45
EPA 608.3		*Prepared:*	*1182869*	*06/30/2025*	*14:15:00*	*Analyzed*	*1182869*	*06/30/2025*	*14:15:00*	*CRS*
	Solvent Extraction	**1/928**	**ml**							11
EPA 608.3		*Prepared:*	*1182870*	*06/30/2025*	*14:16:55*	*Analyzed*	*1182870*	*06/30/2025*	*14:16:55*	*CRS*
	PCB Liq-Liq Extr. W/Hex Exch.	**1/928**	**ml**							11
EPA 614		*Prepared:*	*1182869*	*06/30/2025*	*14:15:00*	*Analyzed*	*1184709*	*07/01/2025*	*22:27:00*	*KAP*
z	**Permit Organophos. Pesticides**	**Entered**								46
EPA 615		*Prepared:*	*1183082*	*07/01/2025*	*14:15:00*	*Analyzed*	*1183082*	*07/01/2025*	*14:15:00*	*CRS*
NELAC	**Esterification of Sample**	**10/954**	**ml**							14

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	EPA 615	*Prepared:*	*1183082*	*07/01/2025*	*14:15:00*	*Analyzed*	*1183915*	*07/08/2025*	*00:41:00*	*KAP*
NELAC	**Herbicides by GC**	**Entered**								50
	EPA 617	*Prepared:*	*1182868*	*06/30/2025*	*14:15:00*	*Analyzed*	*1183351*	*07/01/2025*	*21:42:00*	*KAP*
z	**For use with !PPR only**	**Entered**								45
	EPA 622	*Prepared:*	*1182869*	*06/30/2025*	*14:15:00*	*Analyzed*	*1184708*	*07/01/2025*	*22:27:00*	*KAP*
NELAC	**For use with EXP !CPP only**	**Entered**								46
	EPA 624.1	*Prepared:*	*1182898*	*06/27/2025*	*18:14:00*	*Analyzed*	*1182898*	*06/27/2025*	*18:14:00*	*DWL*
NELAC	**Acrolein/Acrylonitrile Exp.**	**Entered**								27
	EPA 624.1	*Prepared:*	*1182899*	*06/27/2025*	*18:36:00*	*Analyzed*	*1182899*	*06/27/2025*	*18:36:00*	*DWL*
z	**Table D-1/D-2 w/MTBE**	**Entered**								33
	EPA 624.1	*Prepared:*	*1183938*	*07/07/2025*	*17:56:00*	*Analyzed*	*1183938*	*07/07/2025*	*17:56:00*	*DWL*
NELAC	**DW Epichlorohydrin Exp.**	**Entered**								30
	EPA 625.1	*Prepared:*	*1182875*	*06/30/2025*	*14:35:00*	*Analyzed*	*1182875*	*06/30/2025*	*14:35:00*	*CRS*
	Liquid-Liquid Extraction, BNA	**1/925**	**ml**							09
	EPA 625.1	*Prepared:*	*1182875*	*06/30/2025*	*14:35:00*	*Analyzed*	*1183932*	*07/03/2025*	*18:28:00*	*PM1*
NELAC	**Table D-1/ D-2 Semivolatiles Exp**	**Entered**								48

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	EPA 625.1	*Prepared:*	*1182875*	*06/30/2025*	*14:35:00*	*Analyzed*	*1184406*	*07/08/2025*	*17:51:00*	*PM1*
z	**Bisphenol A Expansion**	**Entered**						**80-05-7**		48
	EPA 625.1	*Prepared:*	*1184167*	*07/08/2025*	*14:45:00*	*Analyzed*	*1184167*	*07/08/2025*	*14:45:00*	*SAE*
	Nonylphenol Liq-Liq Extract	**1/842**	**ml**							04
	EPA 632	*Prepared:*	*1182867*	*06/30/2025*	*14:15:00*	*Analyzed*	*1182867*	*06/30/2025*	*14:15:00*	*CRS*
	Liquid-Liquid Extr. W/Hex Ex	**1/928**	**ml**							11
	EPA 632	*Prepared:*	*1182867*	*06/30/2025*	*14:15:00*	*Analyzed*	*1187766*	*07/17/2025*	*01:20:00*	*BRU*
NELAC	**Carbaryl/Diuron EXP**	**Entered**								44
	EPA METHOD 8015C	*Prepared:*	*1184165*	*07/08/2025*	*19:52:00*	*Analyzed*	*1184165*	*07/08/2025*	*19:52:00*	*KAP*
NELAC	**Ethylene Glycol Expansion**	**Entered**						**107-21-1**		01
	SM 4500-CN⁻C-2016	*Prepared:*	*1182714*	*06/28/2025*	*09:12:09*	*Analyzed*	*1182714*	*06/28/2025*	*09:12:09*	*JR1*
NELAC	**Cyanide Distillation**	**10/5**	**ml**							21
	SM 4500-CN⁻C-2016	*Prepared:*	*1182780*	*06/30/2025*	*08:26:32*	*Analyzed*	*1182780*	*06/30/2025*	*08:26:32*	*MEG*
NELAC	**CN Dist After Chlorination**	**10/5**	**ml**							37
	TX 1001	*Prepared:*	*1184059*	*07/08/2025*	*14:00:00*	*Analyzed*	*1184059*	*07/08/2025*	*14:00:00*	*SAE*
z	**Butyltins Extraction**	**1/890**	**ml**							06

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TX 1001 *Prepared:* *1184059* *07/08/2025* *14:00:00* *Analyzed* *1185733* *07/16/2025* *21:07:00* *DWL*

z	**Butyltin Expansion**	**Entered**	52

Qualifiers:

J - Analyte detected below quantitation limit
S - Standard reads lower than desired
X - Standard reads higher than desired.

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 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

Bill Peery, MS, VP Technical Services

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Analytical Set 1182858 — SM 4500-CN⁻ E-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1182714	0.0024	0.00238	0.005	mg/L	127778554

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1182714	ND	0.00238	0.005	mg/L	127778563
Cyanide, total	1182858	ND	0.00238	0.005	mg/L	127778575
Cyanide, total	1182858	ND	0.00238	0.005	mg/L	127778577

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.527	0.500	mg/L	105	90.0 - 110	127778540
Cyanide, total	0.531	0.500	mg/L	106	90.0 - 110	127778550
Cyanide, total	0.526	0.500	mg/L	105	90.0 - 110	127778559
Cyanide, total	0.527	0.500	mg/L	105	90.0 - 110	127778570
Cyanide, total	0.527	0.500	mg/L	105	90.0 - 110	127778576
Cyanide, total	0.533	0.500	mg/L	107	90.0 - 110	127778578
Cyanide, total	0.532	0.500	mg/L	106	90.0 - 110	127778579

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Cyanide, total	2422440	ND	ND	mg/L			20.0
Cyanide, total	2422513	0.0032	ND	mg/L	200	*	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.186	0.200	mg/L	93.0	90.0 - 110	127778539

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide, total	1182714	0.382	0.381	0.400	90.0 - 110	95.5	95.2	mg/L	0.262	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide, total	2422440	0.366	ND	0.400	mg/L	91.5	90.0 - 110	127778560
Cyanide, total	2422513	0.384	ND	0.400	mg/L	96.0	90.0 - 110	127778564

Analytical Set 1182859 — SM 4500-CN⁻ G-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide After Chlorination	1182780	ND	0.00119	0.0025	mg/L	127778590

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide After Chlorination	1182780	ND	0.00119	0.0025	mg/L	127778582
Cyanide After Chlorination	1182780	0.0017	0.00119	0.0025	mg/L	127778584
Cyanide After Chlorination	1182780	ND	0.00119	0.0025	mg/L	127778586

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CCB

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Cyanide After Chlorination	1182780	ND	0.00119	0.0025	mg/L	127778588
Cyanide After Chlorination	1182780	ND	0.00119	0.0025	mg/L	127778594

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cyanide After Chlorination	0.527	0.500	mg/L	105	90.0 - 110	127778581
Cyanide After Chlorination	0.531	0.500	mg/L	106	90.0 - 110	127778583
Cyanide After Chlorination	0.526	0.500	mg/L	105	90.0 - 110	127778585
Cyanide After Chlorination	0.527	0.500	mg/L	105	90.0 - 110	127778587
Cyanide After Chlorination	0.527	0.500	mg/L	105	90.0 - 110	127778589
Cyanide After Chlorination	0.533	0.500	mg/L	107	90.0 - 110	127778599
Cyanide After Chlorination	0.532	0.500	mg/L	106	90.0 - 110	127778603

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*		*Limit%*
Cyanide After Chlorination	2421172	0.0076	ND	mg/L	200	*	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cyanide After Chlorination	0.186	0.200	mg/L	93.0	90.0 - 110	127778580

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Cyanide After Chlorination	1182780	0.188	0.186	0.200	90.0 - 110	94.0	93.0	mg/L	1.07	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*		
Cyanide After Chlorination	2421172	0.354	ND	0.400	mg/L	88.5	90.0 - 110	127778596	*	

Analytical Set 1183042 — EPA 420.4 1

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Phenolics, Total Recoverable	1182783	ND	0.003	0.005	mg/L	127781237

CCB

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Phenolics, Total Recoverable	1182783	ND	0.003	0.005	mg/L	127781236
Phenolics, Total Recoverable	1182783	ND	0.003	0.005	mg/L	127781248

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Phenolics, Total Recoverable	0.196	0.200	mg/L	98.0	90.0 - 110	127781235
Phenolics, Total Recoverable	0.207	0.200	mg/L	104	90.0 - 110	127781245
Phenolics, Total Recoverable	0.184	0.200	mg/L	92.0	90.0 - 110	127781254
Phenolics, Total Recoverable	0.209	0.200	mg/L	104	90.0 - 110	127781265

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*

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Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*		*Limit%*
Phenolics, Total Recoverable	2421131	0.029	0.034	mg/L	15.9		20.0
Phenolics, Total Recoverable	2422310	0.014	0.018	mg/L	25.0	*	20.0
Phenolics, Total Recoverable	2422407	0.035	0.036	mg/L	2.82		20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Phenolics, Total Recoverable	0.207	0.200	mg/L	104	90.0 - 110	127781234

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Phenolics, Total Recoverable	1182783	0.191	0.186	0.200	90.0 - 110	95.5	93.0	mg/L	2.65	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*		
Phenolics, Total Recoverable	2421131	0.218	0.034	0.200	mg/L	92.0	90.0 - 110	127781264		
Phenolics, Total Recoverable	2422310	0.195	0.018	0.200	mg/L	88.5	90.0 - 110	127781242		*
Phenolics, Total Recoverable	2422407	0.212	0.036	0.200	mg/L	88.0	90.0 - 110	127781246		*

Analytical Set 1182668

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Field Cl2 Check for CNa	2422662	NEG	NEG			20

Analytical Set 1183336 EPA 300.0 2.1

AWRL/LOQ C

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Fluoride	0.0802	0.100	mg/L	80.2	70.0 - 130	127786152
Nitrate-Nitrogen Total	0.0228	0.0226	mg/L	101	70.0 - 130	127786152

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Fluoride	1183336	ND	0.00509	0.100	mg/L	127786153
Nitrate-Nitrogen Total	1183336	ND	0.00464	0.0226	mg/L	127786153

CCB

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Fluoride	1183336	0	0.00509	0.100	mg/L	127786149
Fluoride	1183336	0	0.00509	0.100	mg/L	127786160
Nitrate-Nitrogen Total	1183336	0.00357	0.00464	0.0226	mg/L	127786149
Nitrate-Nitrogen Total	1183336	0.00343	0.00464	0.0226	mg/L	127786160

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Fluoride	10.9	10.0	mg/L	109	90.0 - 110	127786148
Fluoride	10.9	10.0	mg/L	109	90.0 - 110	127786159
Nitrate-Nitrogen Total	2.36	2.26	mg/L	104	90.0 - 110	127786148
Nitrate-Nitrogen Total	2.39	2.26	mg/L	106	90.0 - 110	127786159

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LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Fluoride	1183336	5.70	5.69		5.00	88.0 - 118	114	114	mg/L	0.176	20.0
Nitrate-Nitrogen Total	1183336	1.26	1.26		1.13	86.3 - 117	112	112	mg/L	0	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Fluoride	2421465	96.8	98.0	ND	100	80.0 - 120	96.8	98.0	mg/L	1.23	20.0
Nitrate-Nitrogen Total	2421465	45.7	45.2	1.75	22.6	80.0 - 120	194 *	192 *	mg/L	1.14	20.0

Analytical Set 1182938 — SM 3500-Cr B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexavalent Chromium	1182938	0.672	0.550	3.00	ug/L	127779493
Hexavalent Chromium	1182938	ND	0.550	3.00	ug/L	127779501

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexavalent Chromium	80.6	80.0	ug/L	101	90.0 - 110	127779494
Hexavalent Chromium	82.0	80.0	ug/L	102	90.0 - 110	127779502

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexavalent Chromium	1182938	81.3	82.7		80.0	85.0 - 115	102	103	ug/L	1.71	15.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Hexavalent Chromium	2422662	56.0	57.2	ND	80.0	70.0 - 130	70.0	71.5	ug/L	2.12	20.0

Analytical Set 1182985 — EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
Aluminum, Total	1182727	ND	0.0039	0.005	mg/L		127780385
Aluminum, Total	1182727	ND	0.0039	0.005	mg/L		127780402
Arsenic, Total	1182727	ND	0.000902	0.001	mg/L		127780385
Arsenic, Total	1182727	ND	0.000902	0.001	mg/L		127780402
Barium, Total	1182727	ND	0.00207	0.005	mg/L		127780385
Barium, Total	1182727	ND	0.00207	0.005	mg/L		127780402
Beryllium, Total	1182727	ND	0.000162	0.001	mg/L		127780385
Beryllium, Total	1182727	ND	0.000162	0.001	mg/L		127780402
Cadmium, Total	1182727	ND	0.00012	0.001	mg/L		127780385
Cadmium, Total	1182727	ND	0.00012	0.001	mg/L		127780402
Chromium, Total	1182727	ND	0.000392	0.001	mg/L		127780385
Chromium, Total	1182727	0.00125	0.000392	0.001	mg/L	*	127780402
Copper, Total	1182727	ND	0.000325	0.001	mg/L		127780385
Copper, Total	1182727	0.000486	0.000325	0.001	mg/L		127780402
Lead, Total	1182727	ND	0.000549	0.001	mg/L		127780385
Lead, Total	1182727	ND	0.000549	0.001	mg/L		127780402

QUALITY CONTROL

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Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Nickel, Total	1182727	ND	0.000154	0.001	mg/L	127780385
Nickel, Total	1182727	ND	0.000154	0.001	mg/L	127780402
Selenium, Total	1182727	ND	0.00294	0.005	mg/L	127780385
Selenium, Total	1182727	ND	0.00294	0.005	mg/L	127780402
Thallium, Total	1182727	ND	0.000966	0.001	mg/L	127780385
Thallium, Total	1182727	ND	0.000966	0.001	mg/L	127780402
Zinc, Total	1182727	ND	0.000844	0.001	mg/L	127780385
Zinc, Total	1182727	0.000969	0.000844	0.001	mg/L	127780402

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Aluminum, Total	0.0521	0.05	mg/L	104	90.0 - 110	127780401
Aluminum, Total	0.052	0.05	mg/L	104	90.0 - 110	127780412
Aluminum, Total	0.0538	0.05	mg/L	108	90.0 - 110	127780421
Arsenic, Total	0.0527	0.05	mg/L	105	90.0 - 110	127780401
Arsenic, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127780412
Arsenic, Total	0.051	0.05	mg/L	102	90.0 - 110	127780421
Barium, Total	0.0528	0.05	mg/L	106	90.0 - 110	127780401
Barium, Total	0.0516	0.05	mg/L	103	90.0 - 110	127780412
Barium, Total	0.0532	0.05	mg/L	106	90.0 - 110	127780421
Beryllium, Total	0.0484	0.05	mg/L	96.8	90.0 - 110	127780401
Beryllium, Total	0.0514	0.05	mg/L	103	90.0 - 110	127780412
Beryllium, Total	0.051	0.05	mg/L	102	90.0 - 110	127780421
Cadmium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127780401
Cadmium, Total	0.0502	0.05	mg/L	100	90.0 - 110	127780412
Cadmium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	127780421
Copper, Total	0.0505	0.05	mg/L	101	90.0 - 110	127780401
Copper, Total	0.0506	0.05	mg/L	101	90.0 - 110	127780412
Copper, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	127780421
Copper, Total	0.0502	0.05	mg/L	100	90.0 - 110	127780429
Copper, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	127780435
Lead, Total	0.0503	0.05	mg/L	101	90.0 - 110	127780401
Lead, Total	0.0515	0.05	mg/L	103	90.0 - 110	127780412
Lead, Total	0.050	0.05	mg/L	100	90.0 - 110	127780421
Nickel, Total	0.0498	0.05	mg/L	99.6	90.0 - 110	127780401
Nickel, Total	0.0506	0.05	mg/L	101	90.0 - 110	127780412
Nickel, Total	0.050	0.05	mg/L	100	90.0 - 110	127780421
Selenium, Total	0.050	0.05	mg/L	100	90.0 - 110	127780401
Selenium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	127780412
Selenium, Total	0.047	0.05	mg/L	94.0	90.0 - 110	127780421
Thallium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127780401
Thallium, Total	0.0515	0.05	mg/L	103	90.0 - 110	127780412
Thallium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127780421
Zinc, Total	0.0506	0.05	mg/L	101	90.0 - 110	127780401
Zinc, Total	0.0524	0.05	mg/L	105	90.0 - 110	127780412

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Zinc, Total	0.0521	0.05	mg/L	104	90.0 - 110	127780421

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	0.0504	0.05	mg/L	101	90.0 - 110	127780396
Arsenic, Total	0.0508	0.05	mg/L	102	90.0 - 110	127780396
Barium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	127780396
Beryllium, Total	0.050	0.05	mg/L	100	90.0 - 110	127780396
Cadmium, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	127780396
Copper, Total	0.0517	0.05	mg/L	103	90.0 - 110	127780396
Lead, Total	0.0511	0.05	mg/L	102	90.0 - 110	127780396
Nickel, Total	0.0501	0.05	mg/L	100	90.0 - 110	127780396
Selenium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	127780396
Thallium, Total	0.0502	0.05	mg/L	100	90.0 - 110	127780396
Zinc, Total	0.0524	0.05	mg/L	105	90.0 - 110	127780396

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Aluminum, Total	1182727	0.537	0.532	0.500	85.0 - 115	107	106	mg/L	0.935	20.0
Arsenic, Total	1182727	0.518	0.517	0.500	85.0 - 115	104	103	mg/L	0.193	20.0
Barium, Total	1182727	0.520	0.516	0.500	85.0 - 115	104	103	mg/L	0.772	20.0
Beryllium, Total	1182727	0.211	0.211	0.200	85.0 - 115	106	106	mg/L	0	20.0
Cadmium, Total	1182727	0.256	0.253	0.250	85.0 - 115	102	101	mg/L	1.18	20.0
Chromium, Total	1182727	0.482	0.492	0.500	85.0 - 115	96.4	98.4	mg/L	2.05	20.0
Copper, Total	1182727	0.521	0.516	0.500	85.0 - 115	104	103	mg/L	0.964	20.0
Lead, Total	1182727	0.512	0.506	0.500	85.0 - 115	102	101	mg/L	1.18	20.0
Nickel, Total	1182727	0.517	0.509	0.500	85.0 - 115	103	102	mg/L	1.56	20.0
Selenium, Total	1182727	0.496	0.496	0.500	85.0 - 115	99.2	99.2	mg/L	0	20.0
Thallium, Total	1182727	0.517	0.512	0.500	85.0 - 115	103	102	mg/L	0.972	20.0
Zinc, Total	1182727	0.543	0.539	0.500	85.0 - 115	109	108	mg/L	0.739	20.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	9.73	10	mg/L	97.3	90.0 - 110	127780398
Arsenic, Total	9.63	10	mg/L	96.3	90.0 - 110	127780398
Barium, Total	9.84	10	mg/L	98.4	90.0 - 110	127780398
Beryllium, Total	9.89	10	mg/L	98.9	90.0 - 110	127780398
Cadmium, Total	9.71	10	mg/L	97.1	90.0 - 110	127780398
Chromium, Total	0.953	1	mg/L	95.3	90.0 - 110	127780400
Copper, Total	4.58	5	mg/L	91.6	90.0 - 110	127780399
Lead, Total	9.39	10	mg/L	93.9	90.0 - 110	127780398
Nickel, Total	4.53	5	mg/L	90.6	90.0 - 110	127780399
Selenium, Total	9.82	10	mg/L	98.2	90.0 - 110	127780398
Thallium, Total	0.916	1	mg/L	91.6	90.0 - 110	127780400
Zinc, Total	9.27	10	mg/L	92.7	90.0 - 110	127780398

QUALITY CONTROL

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MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper, Total	0.0008	0.001	mg/L	80.0	25.0 - 175	127780397
Lead, Total	0.000945	0.001	mg/L	94.5	85.0 - 115	127780397

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Aluminum, Total	2422341	0.558	0.570	0.0292	0.500	70.0 - 130	106	108	mg/L	2.24	20.0
Arsenic, Total	2422341	0.516	0.520	0.00211	0.500	70.0 - 130	103	104	mg/L	0.775	20.0
Barium, Total	2422341	0.523	0.520	ND	0.500	70.0 - 130	105	104	mg/L	0.575	20.0
Beryllium, Total	2422341	0.216	0.216	ND	0.200	70.0 - 130	108	108	mg/L	0	20.0
Cadmium, Total	2422341	0.257	0.256	0.000131	0.250	70.0 - 130	103	102	mg/L	0.390	20.0
Chromium, Total	2422341	0.480	0.481	0.00162	0.500	70.0 - 130	95.7	95.9	mg/L	0.209	20.0
Copper, Total	2422341	0.549	0.550	0.0328	0.500	70.0 - 130	103	103	mg/L	0.194	20.0
Lead, Total	2422341	0.516	0.518	ND	0.500	70.0 - 130	103	104	mg/L	0.387	20.0
Nickel, Total	2422341	0.509	0.508	0.000508	0.500	70.0 - 130	102	101	mg/L	0.197	20.0
Selenium, Total	2422341	0.498	0.505	ND	0.500	70.0 - 130	99.6	101	mg/L	1.40	20.0
Thallium, Total	2422341	0.519	0.523	ND	0.500	70.0 - 130	104	105	mg/L	0.768	20.0
Zinc, Total	2422341	0.550	0.554	0.00874	0.500	70.0 - 130	108	109	mg/L	0.736	20.0
Aluminum, Total	2422662	0.627	0.631	0.118	0.500	70.0 - 130	102	103	mg/L	0.783	20.0
Arsenic, Total	2422662	0.526	0.531	ND	0.500	70.0 - 130	105	106	mg/L	0.946	20.0
Barium, Total	2422662	0.567	0.565	0.0291	0.500	70.0 - 130	108	107	mg/L	0.373	20.0
Beryllium, Total	2422662	0.213	0.214	ND	0.200	70.0 - 130	106	107	mg/L	0.468	20.0
Cadmium, Total	2422662	0.257	0.257	ND	0.250	70.0 - 130	103	103	mg/L	0	20.0
Copper, Total	2422662	0.495	0.505	0.00436	0.500	70.0 - 130	98.1	100	mg/L	2.02	20.0
Lead, Total	2422662	0.478	0.481	ND	0.500	70.0 - 130	95.6	96.2	mg/L	0.626	20.0
Nickel, Total	2422662	0.489	0.497	0.002	0.500	70.0 - 130	97.4	99.0	mg/L	1.63	20.0
Selenium, Total	2422662	0.492	0.501	ND	0.500	70.0 - 130	98.4	100	mg/L	1.81	20.0
Thallium, Total	2422662	0.486	0.490	ND	0.500	70.0 - 130	97.2	98.0	mg/L	0.820	20.0
Zinc, Total	2422662	0.535	0.545	0.0256	0.500	70.0 - 130	102	104	mg/L	1.94	20.0

Analytical Set 1183192 — EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Antimony, Total	1182727	ND	0.000847	0.003	mg/L	127783869
Chromium, Total	1182727	ND	0.000392	0.001	mg/L	127783869
Silver, Total	1182727	ND	0.000276	0.001	mg/L	127783869

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Antimony, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127783829
Antimony, Total	0.0504	0.05	mg/L	101	90.0 - 110	127783866
Antimony, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	127783876
Antimony, Total	0.0549	0.05	mg/L	110	90.0 - 110	127783885
Chromium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127783829
Chromium, Total	0.0512	0.05	mg/L	102	90.0 - 110	127783861
Chromium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127783866

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127783876
Chromium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127783885
Silver, Total	0.0504	0.05	mg/L	101	90.0 - 110	127783829
Silver, Total	0.0506	0.05	mg/L	101	90.0 - 110	127783861
Silver, Total	0.0506	0.05	mg/L	101	90.0 - 110	127783866
Silver, Total	0.051	0.05	mg/L	102	90.0 - 110	127783876
Silver, Total	0.050	0.05	mg/L	100	90.0 - 110	127783885

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Antimony, Total	0.0541	0.05	mg/L	108	90.0 - 110	127783824
Chromium, Total	0.0506	0.05	mg/L	101	90.0 - 110	127783824
Silver, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	127783824

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Antimony, Total	1182727	0.547	0.548	0.500	85.0 - 115	109	110	mg/L	0.183	20.0
Chromium, Total	1182727	0.481	0.481	0.500	85.0 - 115	96.2	96.2	mg/L	0	20.0
Silver, Total	1182727	0.0897	0.0855	0.100	85.0 - 115	89.7	85.5	mg/L	4.79	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Antimony, Total	2422662	0.540	0.542	0.00286	0.500	70.0 - 130	107	108	mg/L	0.372	20.0
Chromium, Total	2422662	0.458	0.461	0.00141	0.500	70.0 - 130	91.3	91.9	mg/L	0.655	20.0
Silver, Total	2422662	0.0848	0.0836	ND	0.100	70.0 - 130	84.8	83.6	mg/L	1.43	20.0

Analytical Set 1183515 — EPA 245.7 2

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	4.42	5.00	ng/L	88.4	70.0 - 130	127790722

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1183417	ND	1.20	4.00	ng/L	127790725

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	23.6	25.0	ng/L	94.4	87.0 - 113	127790723
Mercury, Total (low level)	25.4	25.0	ng/L	102	87.0 - 113	127790734
Mercury, Total (low level)	26.7	25.0	ng/L	107	87.0 - 113	127790745
Mercury, Total (low level)	26.5	25.0	ng/L	106	87.0 - 113	127790752

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	45.4	50.0	ng/L	90.8	90.0 - 110	127790720

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	24.4	25.0	ng/L	97.6	90.0 - 110	127790721

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury, Total (low level)	1183417	21.8	22.1	25.0	76.0 - 113	87.2	88.4	ng/L	1.37	18.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury, Total (low level)	2421155	24.5	25.1	2.31	26.6	63.0 - 111	83.4	85.7	ng/L	2.67	18.0
Mercury, Total (low level)	2422566	19.6	19.5	2.81	26.6	63.0 - 111	63.1	62.7 *	ng/L	0.597	18.0

Analytical Set 1182898 — EPA 624.1

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1182898	174	331	1.1	0 - 2.00	127779034
BFB Mass 174	1182898	95.0	31069	79.7	50.0 - 100	127779034
BFB Mass 175	1182898	174	2315	7.5	5.00 - 9.00	127779034
BFB Mass 176	1182898	174	30211	97.2	95.0 - 101	127779034
BFB Mass 177	1182898	176	2004	6.6	5.00 - 9.00	127779034
BFB Mass 50	1182898	95.0	6013	15.4	15.0 - 40.0	127779034
BFB Mass 75	1182898	95.0	17668	45.3	30.0 - 60.0	127779034
BFB Mass 95	1182898	95.0	38971	100.0	100 - 100	127779034
BFB Mass 96	1182898	95.0	2605	6.7	5.00 - 9.00	127779034

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Acrolein	1182898	ND	1.93	2.00	ug/L	127779038
Acrylonitrile	1182898	ND	0.504	1.00	ug/L	127779038

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1182898	LCS	268200	286100	143000	429100	127779036	1182898
1,4-DichlorobenzeneD4 (ISTD)	1182898	LCS Dup	273400	286100	143000	429100	127779037	1182898
1,4-DichlorobenzeneD4 (ISTD)	1182898	Blank	269400	286100	143000	429100	127779038	1182898
ChlorobenzeneD5 (ISTD)	1182898	LCS	502800	523400	261700	785200	127779036	1182898
ChlorobenzeneD5 (ISTD)	1182898	LCS Dup	506400	523400	261700	785200	127779037	1182898
ChlorobenzeneD5 (ISTD)	1182898	Blank	531600	523400	261700	785200	127779038	1182898
1,4-DichlorobenzeneD4 (ISTD)	2422364	MS	260900	286100	143000	429100	127779045	1182898
1,4-DichlorobenzeneD4 (ISTD)	2422364	MSD	263600	286100	143000	429100	127779046	1182898
ChlorobenzeneD5 (ISTD)	2422364	MS	481500	523400	261700	785200	127779045	1182898
ChlorobenzeneD5 (ISTD)	2422364	MSD	501600	523400	261700	785200	127779046	1182898
1,4-DichlorobenzeneD4 (ISTD)	2422662	Unknown	246000	286100	143000	429100	127779047	1182898
ChlorobenzeneD5 (ISTD)	2422662	Unknown	493600	523400	261700	785200	127779047	1182898

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1182898	LCS	11.90	11.90	11.84	11.96	127779036	1182898
1,4-DichlorobenzeneD4 (ISTD)	1182898	LCS Dup	11.90	11.90	11.84	11.96	127779037	1182898
1,4-DichlorobenzeneD4 (ISTD)	1182898	Blank	11.90	11.90	11.84	11.96	127779038	1182898
ChlorobenzeneD5 (ISTD)	1182898	LCS	9.530	9.530	9.470	9.590	127779036	1182898
ChlorobenzeneD5 (ISTD)	1182898	LCS Dup	9.530	9.530	9.470	9.590	127779037	1182898
ChlorobenzeneD5 (ISTD)	1182898	Blank	9.530	9.530	9.470	9.590	127779038	1182898
1,4-DichlorobenzeneD4 (ISTD)	2422364	MS	11.90	11.90	11.84	11.96	127779045	1182898
1,4-DichlorobenzeneD4 (ISTD)	2422364	MSD	11.90	11.90	11.84	11.96	127779046	1182898
ChlorobenzeneD5 (ISTD)	2422364	MS	9.530	9.530	9.470	9.590	127779045	1182898
ChlorobenzeneD5 (ISTD)	2422364	MSD	9.524	9.530	9.470	9.590	127779046	1182898
1,4-DichlorobenzeneD4 (ISTD)	2422662	Unknown	11.90	11.90	11.84	11.96	127779047	1182898
ChlorobenzeneD5 (ISTD)	2422662	Unknown	9.530	9.530	9.470	9.590	127779047	1182898

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Acrolein	1182898	21.4	20.1	40.0	60.0 - 140	53.5 *	50.2 *	ug/L	6.36	30.0
Acrylonitrile	1182898	42.0	41.7	40.0	60.0 - 140	105	104	ug/L	0.957	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Acrolein	2422364	21.5	10.8	ND	200	40.0 - 160	10.8 *	5.40 *	ug/L	66.3 *	60.0
Acrylonitrile	2422364	214	202	ND	200	40.0 - 160	107	101	ug/L	5.77	60.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1182898	LCS	20.7	20.0	ug/L	104	70.0 - 130	127779036
1,2-DCA-d4 (SURR)	1182898	LCS Dup	20.4	20.0	ug/L	102	70.0 - 130	127779037
1,2-DCA-d4 (SURR)	1182898	Blank	20.1	20.0	ug/L	100	70.0 - 130	127779038
Bromofluorobenzene (SURR)	1182898	LCS	20.0	20.0	ug/L	100	70.0 - 130	127779036
Bromofluorobenzene (SURR)	1182898	LCS Dup	20.1	20.0	ug/L	100	70.0 - 130	127779037
Bromofluorobenzene (SURR)	1182898	Blank	20.2	20.0	ug/L	101	70.0 - 130	127779038
Dibromofluoromethane (SURR)	1182898	LCS	20.5	20.0	ug/L	102	70.0 - 130	127779036
Dibromofluoromethane (SURR)	1182898	LCS Dup	21.0	20.0	ug/L	105	70.0 - 130	127779037
Dibromofluoromethane (SURR)	1182898	Blank	19.7	20.0	ug/L	98.5	70.0 - 130	127779038
TolueneD8 (SURR)	1182898	LCS	20.3	20.0	ug/L	102	70.0 - 130	127779036
TolueneD8 (SURR)	1182898	LCS Dup	20.2	20.0	ug/L	101	70.0 - 130	127779037
TolueneD8 (SURR)	1182898	Blank	19.3	20.0	ug/L	96.5	70.0 - 130	127779038
1,2-DCA-d4 (SURR)	2422364	MS	20.2	20.0	ug/L	101	70.0 - 130	127779045
1,2-DCA-d4 (SURR)	2422364	MSD	20.6	20.0	ug/L	103	70.0 - 130	127779046
Bromofluorobenzene (SURR)	2422364	MS	20.2	20.0	ug/L	101	70.0 - 130	127779045
Bromofluorobenzene (SURR)	2422364	MSD	20.4	20.0	ug/L	102	70.0 - 130	127779046
Dibromofluoromethane (SURR)	2422364	MS	20.5	20.0	ug/L	102	70.0 - 130	127779045
Dibromofluoromethane (SURR)	2422364	MSD	20.8	20.0	ug/L	104	70.0 - 130	127779046
TolueneD8 (SURR)	2422364	MS	20.1	20.0	ug/L	100	70.0 - 130	127779045
TolueneD8 (SURR)	2422364	MSD	20.1	20.0	ug/L	100	70.0 - 130	127779046
1,2-DCA-d4 (SURR)	2422662	Unknown	20.6	20.0	ug/L	103	70.0 - 130	127779047

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Bromofluorobenzene (SURR)	2422662	Unknown	20.4	20.0	ug/L	102	70.0 - 130	127779047
Dibromofluoromethane (SURR)	2422662	Unknown	20.6	20.0	ug/L	103	70.0 - 130	127779047
ToluneneD8 (SURR)	2422662	Unknown	19.8	20.0	ug/L	99.0	70.0 - 130	127779047

Analytical Set 1182899 EPA 624.1

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1182899	174	331	1.1	0 - 2.00	127779048
BFB Mass 174	1182899	95.0	31069	79.7	50.0 - 100	127779048
BFB Mass 175	1182899	174	2315	7.5	5.00 - 9.00	127779048
BFB Mass 176	1182899	174	30211	97.2	95.0 - 101	127779048
BFB Mass 177	1182899	176	2004	6.6	5.00 - 9.00	127779048
BFB Mass 50	1182899	95.0	6013	15.4	15.0 - 40.0	127779048
BFB Mass 75	1182899	95.0	17668	45.3	30.0 - 60.0	127779048
BFB Mass 95	1182899	95.0	38971	100.0	100 - 100	127779048
BFB Mass 96	1182899	95.0	2605	6.7	5.00 - 9.00	127779048

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
(MTBE) tert-Butylmethylether	1182899	ND	0.145	1.00	ug/L	127779052
1,1,1-Trichloroethane	1182899	ND	0.227	1.00	ug/L	127779052
1,1,2-Trichloroethane	1182899	ND	0.245	1.00	ug/L	127779052
1,1-Dichloroethane	1182899	ND	0.206	1.00	ug/L	127779052
1,1-Dichloroethylene	1182899	ND	0.163	1.00	ug/L	127779052
1,2-Dibromoethane (EDB)	1182899	ND	0.133	1.00	ug/L	127779052
1,2-Dichloroethane	1182899	ND	0.174	1.00	ug/L	127779052
1,2-Dichloropropane	1182899	ND	0.0922	1.00	ug/L	127779052
Benzene	1182899	ND	0.158	1.00	ug/L	127779052
Bromodichloromethane	1182899	ND	0.174	1.00	ug/L	127779052
Bromoform	1182899	ND	0.288	1.00	ug/L	127779052
Carbon Tetrachloride	1182899	ND	0.137	1.00	ug/L	127779052
Chlorobenzene	1182899	ND	0.146	1.00	ug/L	127779052
Chloroethane	1182899	ND	0.595	1.00	ug/L	127779052
Chloroform	1182899	ND	0.162	1.00	ug/L	127779052
Chloromethane (Methyl Chloride)	1182899	ND	0.215	1.00	ug/L	127779052
cis-1,3-Dichloropropene	1182899	ND	0.123	1.00	ug/L	127779052
Dibromochloromethane	1182899	ND	0.143	1.00	ug/L	127779052
Dichloromethane	1182899	ND	0.319	1.00	ug/L	127779052
Ethylbenzene	1182899	ND	0.147	1.00	ug/L	127779052
m-Dichlorobenzene (1,3-DCB)	1182899	ND	0.173	1.00	ug/L	127779052
Methyl ethyl ketone (Butanone)	1182899	ND	0.466	1.00	ug/L	127779052
o-Dichlorobenzene (1,2-DCB)	1182899	ND	0.190	1.00	ug/L	127779052
p-Dichlorobenzene (1,4-DCB)	1182899	ND	0.158	1.00	ug/L	127779052
Tetrachloroethylene	1182899	ND	0.239	1.00	ug/L	127779052
Toluene	1182899	ND	0.181	1.00	ug/L	127779052

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
trans-1,2-Dichloroethylene	1182899	ND	0.231	1.00	ug/L	127779052
trans-1,3-Dichloropropene	1182899	ND	0.121	1.00	ug/L	127779052
Trichloroethylene	1182899	ND	0.153	1.00	ug/L	127779052
Vinyl chloride	1182899	ND	0.222	1.00	ug/L	127779052

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1182899	LCS	268200	286100	143000	429100	127779050	1182899
1,4-DichlorobenzeneD4 (ISTD)	1182899	LCS Dup	273400	286100	143000	429100	127779051	1182899
1,4-DichlorobenzeneD4 (ISTD)	1182899	Blank	269400	286100	143000	429100	127779052	1182899
ChlorobenzeneD5 (ISTD)	1182899	LCS	502800	523400	261700	785200	127779050	1182899
ChlorobenzeneD5 (ISTD)	1182899	LCS Dup	506400	523400	261700	785200	127779051	1182899
ChlorobenzeneD5 (ISTD)	1182899	Blank	531600	523400	261700	785200	127779052	1182899
1,4-DichlorobenzeneD4 (ISTD)	2422364	MS	260900	286100	143000	429100	127779058	1182899
1,4-DichlorobenzeneD4 (ISTD)	2422364	MSD	263600	286100	143000	429100	127779059	1182899
ChlorobenzeneD5 (ISTD)	2422364	MS	481500	523400	261700	785200	127779058	1182899
ChlorobenzeneD5 (ISTD)	2422364	MSD	501600	523400	261700	785200	127779059	1182899
1,4-DichlorobenzeneD4 (ISTD)	2422662	Unknown	248500	286100	143000	429100	127779060	1182899
ChlorobenzeneD5 (ISTD)	2422662	Unknown	484300	523400	261700	785200	127779060	1182899

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1182899	LCS	11.90	11.90	11.84	11.96	127779050	1182899
1,4-DichlorobenzeneD4 (ISTD)	1182899	LCS Dup	11.90	11.90	11.84	11.96	127779051	1182899
1,4-DichlorobenzeneD4 (ISTD)	1182899	Blank	11.90	11.90	11.84	11.96	127779052	1182899
ChlorobenzeneD5 (ISTD)	1182899	LCS	9.530	9.530	9.470	9.590	127779050	1182899
ChlorobenzeneD5 (ISTD)	1182899	LCS Dup	9.530	9.530	9.470	9.590	127779051	1182899
ChlorobenzeneD5 (ISTD)	1182899	Blank	9.530	9.530	9.470	9.590	127779052	1182899
1,4-DichlorobenzeneD4 (ISTD)	2422364	MS	11.90	11.90	11.84	11.96	127779058	1182899
1,4-DichlorobenzeneD4 (ISTD)	2422364	MSD	11.90	11.90	11.84	11.96	127779059	1182899
ChlorobenzeneD5 (ISTD)	2422364	MS	9.530	9.530	9.470	9.590	127779058	1182899
ChlorobenzeneD5 (ISTD)	2422364	MSD	9.524	9.530	9.470	9.590	127779059	1182899
1,4-DichlorobenzeneD4 (ISTD)	2422662	Unknown	11.90	11.90	11.84	11.96	127779060	1182899
ChlorobenzeneD5 (ISTD)	2422662	Unknown	9.530	9.530	9.470	9.590	127779060	1182899

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
(MTBE) tert-Butylmethylether	1182899	20.7	20.5	20.0	70.8 - 125	104	102	ug/L	1.94	30.0
1,1,1-Trichloroethane	1182899	20.5	20.4	20.0	70.0 - 130	102	102	ug/L	0	21.0
1,1,2,2-Tetrachloroethane	1182899	20.3	19.6	20.0	60.0 - 140	102	98.0	ug/L	4.00	36.0
1,1,2-Trichloroethane	1182899	20.5	19.6	20.0	70.0 - 130	102	98.0	ug/L	4.00	27.0
1,1-Dichloroethane	1182899	21.8	21.5	20.0	70.0 - 130	109	108	ug/L	0.922	24.0
1,1-Dichloroethylene	1182899	20.9	20.3	20.0	50.0 - 150	104	102	ug/L	1.94	40.0
1,2-Dibromoethane (EDB)	1182899	19.6	19.0	20.0	78.4 - 122	98.0	95.0	ug/L	3.11	30.0
1,2-Dichloroethane	1182899	20.0	19.8	20.0	70.0 - 130	100	99.0	ug/L	1.01	29.0
1,2-Dichloropropane	1182899	21.2	20.8	20.0	35.0 - 165	106	104	ug/L	1.90	69.0

QUALITY CONTROL

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
2-Chloroethylvinyl ether	1182899	0.710	0.690	20.0	0.100 - 225	3.55	3.45	ug/L	2.86	130
Benzene	1182899	20.6	20.3	20.0	65.0 - 135	103	102	ug/L	0.976	33.0
Bromodichloromethane	1182899	20.5	20.0	20.0	65.0 - 135	102	100	ug/L	1.98	34.0
Bromoform	1182899	20.7	20.1	20.0	70.0 - 130	104	100	ug/L	3.92	25.0
Bromomethane (Methyl Bromi	1182899	22.0	22.6	20.0	15.0 - 185	110	113	ug/L	2.69	90.0
Carbon Tetrachloride	1182899	21.0	20.7	20.0	70.0 - 130	105	104	ug/L	0.957	26.0
Chlorobenzene	1182899	19.9	19.5	20.0	65.0 - 135	99.5	97.5	ug/L	2.03	29.0
Chloroethane	1182899	23.4	23.0	20.0	40.0 - 160	117	115	ug/L	1.72	47.0
Chloroform	1182899	21.1	20.8	20.0	70.0 - 135	106	104	ug/L	1.90	32.0
Chloromethane (Methyl Chloride)	1182899	21.0	20.6	20.0	0.100 - 205	105	103	ug/L	1.92	472
cis-1,3-Dichloropropene	1182899	19.7	19.2	20.0	25.0 - 175	98.5	96.0	ug/L	2.57	79.0
Dibromochloromethane	1182899	18.6	18.0	20.0	70.0 - 135	93.0	90.0	ug/L	3.28	30.0
Dichloromethane	1182899	20.1	19.9	20.0	60.0 - 140	100	99.5	ug/L	0.501	192
Ethylbenzene	1182899	20.0	19.7	20.0	60.0 - 140	100	98.5	ug/L	1.51	34.0
m-Dichlorobenzene (1,3-DCB)	1182899	19.3	18.8	20.0	70.0 - 130	96.5	94.0	ug/L	2.62	24.0
Methyl ethyl ketone (Butanone)	1182899	21.7	21.1	20.0	62.3 - 136	108	106	ug/L	1.87	30.0
o-Dichlorobenzene (1,2-DCB)	1182899	19.1	18.5	20.0	65.0 - 135	95.5	92.5	ug/L	3.19	31.0
p-Dichlorobenzene (1,4-DCB)	1182899	19.2	19.0	20.0	65.0 - 135	96.0	95.0	ug/L	1.05	31.0
Tetrachloroethylene	1182899	19.3	18.7	20.0	70.0 - 130	96.5	93.5	ug/L	3.16	23.0
Toluene	1182899	20.4	20.0	20.0	70.0 - 130	102	100	ug/L	1.98	22.0
trans-1,2-Dichloroethylene	1182899	20.2	20.0	20.0	70.0 - 130	101	100	ug/L	0.995	27.0
trans-1,3-Dichloropropene	1182899	20.6	20.0	20.0	50.0 - 150	103	100	ug/L	2.96	52.0
Trichloroethylene	1182899	20.8	20.6	20.0	65.0 - 135	104	103	ug/L	0.966	29.0
Vinyl chloride	1182899	24.3	23.4	20.0	5.00 - 195	122	117	ug/L	4.18	100

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
(MTBE) tert-Butylmethylether	2422364	95.6	91.6	ND	100	28.8 - 124	95.6	91.6	ug/L	4.27	30.0
1,1,1-Trichloroethane	2422364	93.5	90.1	ND	100	52.0 - 162	93.5	90.1	ug/L	3.70	36.0
1,1,2,2-Tetrachloroethane	2422364	91.8	91.8	ND	100	46.0 - 157	91.8	91.8	ug/L	0	61.0
1,1,2-Trichloroethane	2422364	94.8	91.6	ND	100	52.0 - 150	94.8	91.6	ug/L	3.43	45.0
1,1-Dichloroethane	2422364	100	96.6	ND	100	59.0 - 155	100	96.6	ug/L	3.46	40.0
1,1-Dichloroethylene	2422364	95.2	90.1	ND	100	0.100 - 234	95.2	90.1	ug/L	5.50	32.0
1,2-Dibromoethane (EDB)	2422364	89.4	86.3	ND	100	49.3 - 120	89.4	86.3	ug/L	3.53	30.0
1,2-Dichloroethane	2422364	90.6	88.2	ND	100	49.0 - 155	90.6	88.2	ug/L	2.68	49.0
1,2-Dichloropropane	2422364	96.5	93.2	ND	100	0.100 - 210	96.5	93.2	ug/L	3.48	55.0
2-Chloroethylvinyl ether	2422364	3.80	2.65	ND	100	0.100 - 305	3.80	2.65	ug/L	35.7	71.0
Benzene	2422364	92.7	90.4	ND	100	37.0 - 151	92.7	90.4	ug/L	2.51	61.0
Bromodichloromethane	2422364	94.7	90.2	ND	100	35.0 - 155	94.7	90.2	ug/L	4.87	56.0
Bromoform	2422364	96.3	95.9	ND	100	45.0 - 169	96.3	95.9	ug/L	0.416	42.0
Bromomethane (Methyl Bromi	2422364	100	97.2	ND	100	0.100 - 242	100	97.2	ug/L	2.84	61.0
Carbon Tetrachloride	2422364	96.5	92.5	ND	100	70.0 - 140	96.5	92.5	ug/L	4.23	41.0
Chlorobenzene	2422364	92.1	87.7	ND	100	37.0 - 160	92.1	87.7	ug/L	4.89	53.0
Chloroethane	2422364	106	100	ND	100	14.0 - 230	106	100	ug/L	5.83	78.0
Chloroform	2422364	96.4	92.8	ND	100	51.0 - 138	96.4	92.8	ug/L	3.81	54.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloromethane (Methyl Chloride)	2422364	96.2	89.8	ND	100	0.100 - 273	96.2	89.8	ug/L	6.88	60.0
cis-1,3-Dichloropropene	2422364	89.8	86.0	ND	100	0.100 - 227	89.8	86.0	ug/L	4.32	58.0
Dibromochloromethane	2422364	85.6	80.8	ND	100	53.0 - 149	85.6	80.8	ug/L	5.77	50.0
Dichloromethane	2422364	92.8	89.2	1.25	100	0.100 - 221	91.6	88.0	ug/L	4.01	28.0
Ethylbenzene	2422364	90.5	87.4	ND	100	37.0 - 162	90.5	87.4	ug/L	3.49	63.0
m-Dichlorobenzene (1,3-DCB)	2422364	83.0	82.6	ND	100	59.0 - 156	83.0	82.6	ug/L	0.483	43.0
Methyl ethyl ketone (Butanone)	2422364	111	106	ND	100	0.100 - 211	111	106	ug/L	4.61	30.0
o-Dichlorobenzene (1,2-DCB)	2422364	83.9	84.0	ND	100	18.0 - 190	83.9	84.0	ug/L	0.119	57.0
p-Dichlorobenzene (1,4-DCB)	2422364	82.0	83.9	ND	100	18.0 - 190	82.0	83.9	ug/L	2.29	57.0
Tetrachloroethylene	2422364	88.0	82.8	ND	100	64.0 - 148	88.0	82.8	ug/L	6.09	39.0
Toluene	2422364	94.5	89.4	ND	100	47.0 - 150	94.5	89.4	ug/L	5.55	41.0
trans-1,2-Dichloroethylene	2422364	91.9	86.6	ND	100	54.0 - 156	91.9	86.6	ug/L	5.94	45.0
trans-1,3-Dichloropropene	2422364	94.8	90.8	ND	100	17.0 - 183	94.8	90.8	ug/L	4.31	86.0
Trichloroethylene	2422364	95.7	91.7	ND	100	70.0 - 157	95.7	91.7	ug/L	4.27	48.0
Vinyl chloride	2422364	105	99.2	ND	100	0.100 - 251	105	99.2	ug/L	5.68	66.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1182899	LCS	20.7	20.0	ug/L	104	70.0 - 130	127779050
1,2-DCA-d4 (SURR)	1182899	LCS Dup	20.4	20.0	ug/L	102	70.0 - 130	127779051
1,2-DCA-d4 (SURR)	1182899	Blank	20.1	20.0	ug/L	100	70.0 - 130	127779052
Bromofluorobenzene (SURR)	1182899	LCS	20.0	20.0	ug/L	100	70.0 - 130	127779050
Bromofluorobenzene (SURR)	1182899	LCS Dup	20.1	20.0	ug/L	100	70.0 - 130	127779051
Bromofluorobenzene (SURR)	1182899	Blank	20.2	20.0	ug/L	101	70.0 - 130	127779052
Dibromofluoromethane (SURR)	1182899	LCS	20.5	20.0	ug/L	102	70.0 - 130	127779050
Dibromofluoromethane (SURR)	1182899	LCS Dup	21.0	20.0	ug/L	105	70.0 - 130	127779051
Dibromofluoromethane (SURR)	1182899	Blank	19.7	20.0	ug/L	98.5	70.0 - 130	127779052
ToluneneD8 (SURR)	1182899	LCS	20.3	20.0	ug/L	102	70.0 - 130	127779050
ToluneneD8 (SURR)	1182899	LCS Dup	20.2	20.0	ug/L	101	70.0 - 130	127779051
ToluneneD8 (SURR)	1182899	Blank	19.3	20.0	ug/L	96.5	70.0 - 130	127779052
1,2-DCA-d4 (SURR)	2422364	MS	20.2	20.0	ug/L	101	70.0 - 130	127779058
1,2-DCA-d4 (SURR)	2422364	MSD	20.6	20.0	ug/L	103	70.0 - 130	127779059
Bromofluorobenzene (SURR)	2422364	MS	20.2	20.0	ug/L	101	70.0 - 130	127779058
Bromofluorobenzene (SURR)	2422364	MSD	20.4	20.0	ug/L	102	70.0 - 130	127779059
Dibromofluoromethane (SURR)	2422364	MS	20.5	20.0	ug/L	102	70.0 - 130	127779058
Dibromofluoromethane (SURR)	2422364	MSD	20.8	20.0	ug/L	104	70.0 - 130	127779059
ToluneneD8 (SURR)	2422364	MS	20.1	20.0	ug/L	100	70.0 - 130	127779058
ToluneneD8 (SURR)	2422364	MSD	20.1	20.0	ug/L	100	70.0 - 130	127779059
1,2-DCA-d4 (SURR)	2422662	Unknown	20.6	20.0	ug/L	103	70.0 - 130	127779060
Bromofluorobenzene (SURR)	2422662	Unknown	19.6	20.0	ug/L	98.0	70.0 - 130	127779060
Dibromofluoromethane (SURR)	2422662	Unknown	20.1	20.0	ug/L	100	70.0 - 130	127779060
ToluneneD8 (SURR)	2422662	Unknown	19.7	20.0	ug/L	98.5	70.0 - 130	127779060

Analytical Set 1183351 EPA 617

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Kelthane (Dicofol)	1182868	ND	7.98	10.0	ug/L	127786471
Methoxychlor	1182868	ND	0.846	1.00	ug/L	127786471
Mirex	1182868	ND	0.607	1.00	ug/L	127786471

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Kelthane (Dicofol)	105	100	ug/L	105	60.0 - 130	127786470
Kelthane (Dicofol)	90.2	100	ug/L	90.2	60.0 - 130	127786475
Methoxychlor	51.6	50.0	ug/L	103	70.0 - 130	127786470
Methoxychlor	52.3	50.0	ug/L	105	70.0 - 130	127786475
Mirex	48.3	50.0	ug/L	96.7	70.0 - 130	127786470
Mirex	52.6	50.0	ug/L	105	70.0 - 130	127786475

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1182868	124	128	100	0.100 - 137	124	128	ug/L	3.17	30.0
Methoxychlor	1182868	72.3	72.2	100	21.5 - 151	72.3	72.2	ug/L	0.138	30.0
Mirex	1182868	51.0	46.5	100	11.6 - 140	51.0	46.5	ug/L	9.23	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	49.1	100	ug/L	49.1	10.0 - 150	127786470
Decachlorobiphenyl		CCV	50.4	100	ug/L	50.4	10.0 - 150	127786475
Tetrachloro-m-Xylene (Surr)		CCV	46.8	100	ug/L	46.8	10.0 - 150	127786470
Tetrachloro-m-Xylene (Surr)		CCV	45.4	100	ug/L	45.4	10.0 - 150	127786475
Decachlorobiphenyl	1182868	Blank	41.6	100	ug/L	41.6	10.0 - 150	127786471
Decachlorobiphenyl	1182868	LCS	49.5	100	ug/L	49.5	10.0 - 150	127786472
Decachlorobiphenyl	1182868	LCS Dup	43.5	100	ug/L	43.5	10.0 - 150	127786473
Tetrachloro-m-Xylene (Surr)	1182868	Blank	38.0	100	ug/L	38.0	10.0 - 150	127786471
Tetrachloro-m-Xylene (Surr)	1182868	LCS	44.0	100	ug/L	44.0	10.0 - 150	127786472
Tetrachloro-m-Xylene (Surr)	1182868	LCS Dup	43.9	100	ug/L	43.9	10.0 - 150	127786473
Decachlorobiphenyl	2422662	Unknown	0.0517	0.108	ug/L	47.9	10.0 - 150	127786474
Tetrachloro-m-Xylene (Surr)	2422662	Unknown	0.0473	0.108	ug/L	43.8	10.0 - 150	127786474

Analytical Set 1183353 EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1182868	ND	0.528	1.00	ug/L	127786485
4,4-DDE	1182868	ND	0.370	1.00	ug/L	127786485
4,4-DDT	1182868	ND	0.696	1.00	ug/L	127786485
Aldrin	1182868	ND	0.157	1.00	ug/L	127786485
Alpha-BHC(hexachlorocyclohexane)	1182868	ND	0.266	1.00	ug/L	127786485
Beta-BHC(hexachlorocyclohexane)	1182868	0.866	0.228	1.00	ug/L	127786485
Delta-BHC(hexachlorocyclohexane)	1182868	ND	0.601	1.00	ug/L	127786485
Dieldrin	1182868	ND	0.196	1.00	ug/L	127786485
Endosulfan I (alpha)	1182868	ND	0.257	1.00	ug/L	127786485

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Endosulfan II (beta)	1182868	ND	0.287	1.00	ug/L	127786485
Endosulfan sulfate	1182868	ND	0.371	1.00	ug/L	127786485
Endrin	1182868	ND	0.294	1.00	ug/L	127786485
Endrin aldehyde	1182868	ND	0.452	1.00	ug/L	127786485
Gamma-BHC(Lindane)	1182868	ND	0.398	1.00	ug/L	127786485
Heptachlor	1182868	ND	0.292	1.00	ug/L	127786485
Heptachlor epoxide	1182868	ND	0.287	1.00	ug/L	127786485
Toxaphene	1182868	ND	7.39	10.0	ug/L	127786485

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
4,4-DDD	53.5	50.0	ug/L	107	75.0 - 125		127786484
4,4-DDD	66.9	50.0	ug/L	134	75.0 - 125	*	127786489
4,4-DDE	50.8	50.0	ug/L	102	75.0 - 125		127786484
4,4-DDE	56.5	50.0	ug/L	113	75.0 - 125		127786489
4,4-DDT	58.1	50.0	ug/L	116	75.0 - 125		127786484
4,4-DDT	47.5	50.0	ug/L	95.0	75.0 - 125		127786489
Aldrin	50.3	50.0	ug/L	101	75.0 - 125		127786484
Aldrin	58.3	50.0	ug/L	117	75.0 - 125		127786489
Alpha-BHC(hexachlorocyclohexane)	50.1	50.0	ug/L	100	75.0 - 125		127786484
Alpha-BHC(hexachlorocyclohexane)	60.7	50.0	ug/L	121	75.0 - 125		127786489
Beta-BHC(hexachlorocyclohexane)	48.1	50.0	ug/L	96.2	75.0 - 125		127786484
Beta-BHC(hexachlorocyclohexane)	56.0	50.0	ug/L	112	75.0 - 125		127786489
Delta-BHC(hexachlorocyclohexane)	50.6	50.0	ug/L	101	75.0 - 125		127786484
Delta-BHC(hexachlorocyclohexane)	59.8	50.0	ug/L	120	75.0 - 125		127786489
Dieldrin	51.0	50.0	ug/L	102	75.0 - 125		127786484
Dieldrin	59.3	50.0	ug/L	119	75.0 - 125		127786489
Endosulfan I (alpha)	52.1	50.0	ug/L	104	75.0 - 125		127786484
Endosulfan I (alpha)	59.9	50.0	ug/L	120	75.0 - 125		127786489
Endosulfan II (beta)	50.9	50.0	ug/L	102	75.0 - 125		127786484
Endosulfan II (beta)	58.9	50.0	ug/L	118	75.0 - 125		127786489
Endosulfan sulfate	49.4	50.0	ug/L	98.8	75.0 - 125		127786484
Endosulfan sulfate	58.8	50.0	ug/L	118	75.0 - 125		127786489
Endrin	51.3	50.0	ug/L	103	75.0 - 125		127786484
Endrin	61.5	50.0	ug/L	123	75.0 - 125		127786489
Endrin aldehyde	50.6	50.0	ug/L	101	75.0 - 125		127786484
Endrin aldehyde	49.0	50.0	ug/L	98.0	75.0 - 125		127786489
Gamma-BHC(Lindane)	49.4	50.0	ug/L	98.8	75.0 - 125		127786484
Gamma-BHC(Lindane)	54.0	50.0	ug/L	108	75.0 - 125		127786489
Heptachlor	48.3	50.0	ug/L	96.6	75.0 - 125		127786484
Heptachlor	50.4	50.0	ug/L	101	75.0 - 125		127786489
Heptachlor epoxide	48.9	50.0	ug/L	97.8	75.0 - 125		127786484
Heptachlor epoxide	58.1	50.0	ug/L	116	75.0 - 125		127786489

QUALITY CONTROL

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1182868	62.6	58.5	100	31.0 - 141	62.6	58.5	ug/L	6.77	39.0
4,4-DDE	1182868	54.6	52.2	100	30.0 - 145	54.6	52.2	ug/L	4.49	35.0
4,4-DDT	1182868	74.0	72.0	100	25.0 - 160	74.0	72.0	ug/L	2.74	42.0
Aldrin	1182868	49.3	48.3	100	42.0 - 140	49.3	48.3	ug/L	2.05	35.0
Alpha-BHC(hexachlorocyclohexane)	1182868	53.2	50.8	100	37.0 - 140	53.2	50.8	ug/L	4.62	36.0
Beta-BHC(hexachlorocyclohexane)	1182868	53.6	49.4	100	17.0 - 147	53.6	49.4	ug/L	8.16	44.0
Delta-BHC(hexachlorocyclohexane)	1182868	58.2	53.2	100	19.0 - 140	58.2	53.2	ug/L	8.98	52.0
Dieldrin	1182868	56.7	52.2	100	36.0 - 146	56.7	52.2	ug/L	8.26	49.0
Endosulfan I (alpha)	1182868	57.5	52.6	100	45.0 - 153	57.5	52.6	ug/L	8.90	28.0
Endosulfan II (beta)	1182868	57.6	52.4	100	0.100 - 202	57.6	52.4	ug/L	9.45	53.0
Endosulfan sulfate	1182868	57.3	52.2	100	26.0 - 144	57.3	52.2	ug/L	9.32	38.0
Endrin	1182868	63.4	59.3	100	30.0 - 147	63.4	59.3	ug/L	6.68	48.0
Endrin aldehyde	1182868	61.5	56.1	100	37.6 - 158	61.5	56.1	ug/L	9.18	30.0
Gamma-BHC(Lindane)	1182868	51.6	48.3	100	32.0 - 140	51.6	48.3	ug/L	6.61	39.0
Heptachlor	1182868	50.0	48.3	100	34.0 - 140	50.0	48.3	ug/L	3.46	43.0
Heptachlor epoxide	1182868	53.8	49.6	100	37.0 - 142	53.8	49.6	ug/L	8.12	26.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	49.1	100	ug/L	49.1	0.100 - 144	127786484
Decachlorobiphenyl		CCV	50.4	100	ug/L	50.4	0.100 - 144	127786489
Tetrachloro-m-Xylene (Surr)		CCV	46.8	100	ug/L	46.8	0.100 - 107	127786484
Tetrachloro-m-Xylene (Surr)		CCV	45.4	100	ug/L	45.4	0.100 - 107	127786489
Decachlorobiphenyl	1182868	Blank	41.6	100	ug/L	41.6	0.100 - 144	127786485
Decachlorobiphenyl	1182868	LCS	49.5	100	ug/L	49.5	0.100 - 144	127786486
Decachlorobiphenyl	1182868	LCS Dup	43.5	100	ug/L	43.5	0.100 - 144	127786487
Tetrachloro-m-Xylene (Surr)	1182868	Blank	38.0	100	ug/L	38.0	0.100 - 107	127786485
Tetrachloro-m-Xylene (Surr)	1182868	LCS	44.0	100	ug/L	44.0	0.100 - 107	127786486
Tetrachloro-m-Xylene (Surr)	1182868	LCS Dup	43.9	100	ug/L	43.9	0.100 - 107	127786487
Decachlorobiphenyl	2422662	Unknown	0.0517	0.108	ug/L	47.9	0.100 - 144	127786488
Tetrachloro-m-Xylene (Surr)	2422662	Unknown	0.0473	0.108	ug/L	43.8	0.100 - 107	127786488

Analytical Set 1183358 — EPA 608.3

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1120	1000	ug/L	112	80.0 - 115		127786532
PCB-1016	1090	1000	ug/L	109	80.0 - 115		127786537
PCB-1260	1110	1000	ug/L	111	80.0 - 115		127786532
PCB-1260	1210	1000	ug/L	121	80.0 - 115	*	127786537

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	2422662	Unknown	0.0517	0.108	ug/L	47.9	10.0 - 200	127786536
Tetrachloro-m-Xylene (Surr)	2422662	Unknown	0.0473	0.108	ug/L	43.8	10.0 - 200	127786536

Analytical Set 1183915 — EPA 615

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1183082	ND	14.8	50.0	ug/L	127801294
2,4,5-TP (Silvex)	1183082	ND	16.5	50.0	ug/L	127801294

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	155	150	ug/L	103	80.0 - 115	127801293
2,4 Dichlorophenoxyacetic acid	168	150	ug/L	112	80.0 - 115	127801306
2,4,5-TP (Silvex)	153	150	ug/L	102	80.0 - 115	127801293
2,4,5-TP (Silvex)	155	150	ug/L	103	80.0 - 115	127801306

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1183082	228	200	100	0.100 - 319	228	200	ug/L	13.1	30.0
2,4,5-TP (Silvex)	1183082	90.1	81.1	100	0.100 - 244	90.1	81.1	ug/L	10.5	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	147	200	ug/L	73.5	0.100 - 313	127801293
2,4-Dichlorophenylacetic Acid		CCV	150	200	ug/L	75.0	0.100 - 313	127801306
2,4-Dichlorophenylacetic Acid	1183082	Blank	99.8	200	ug/L	49.9	0.100 - 313	127801294
2,4-Dichlorophenylacetic Acid	1183082	LCS	118	200	ug/L	59.0	0.100 - 313	127801295
2,4-Dichlorophenylacetic Acid	1183082	LCS Dup	112	200	ug/L	56.0	0.100 - 313	127801296
2,4-Dichlorophenylacetic Acid	2422662	Unknown	1.73	2.10	ug/L	82.4	0.100 - 313	127801298

Analytical Set 1183932 EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1182875	ND	0.806	1.00	ug/L	127801408
1,2,4-Trichlorobenzene	1182875	ND	0.800	1.00	ug/L	127801408
1,2-Dichlorobenzene	1182875	ND	3.24	3.50	ug/L	127801408
1,2-DPH (as azobenzene)	1182875	ND	0.619	1.00	ug/L	127801408
1,3-Dichlorobenzene	1182875	ND	0.761	1.00	ug/L	127801408
1,4-Dichlorobenzene	1182875	ND	0.773	1.00	ug/L	127801408
2,4,5-Trichlorophenol	1182875	ND	0.538	1.00	ug/L	127801408
2,4,6-Trichlorophenol	1182875	ND	0.652	1.00	ug/L	127801408
2,4-Dichlorophenol	1182875	ND	0.661	1.00	ug/L	127801408
2,4-Dimethylphenol	1182875	ND	6.97	7.00	ug/L	127801408
2,4-Dinitrophenol	1182875	ND	1.59	2.00	ug/L	127801408
2,4-Dinitrotoluene	1182875	ND	0.497	1.00	ug/L	127801408
2,6-Dinitrotoluene	1182875	ND	0.588	1.00	ug/L	127801408
2-Chloronaphthalene	1182875	ND	0.824	1.00	ug/L	127801408
2-Chlorophenol	1182875	ND	0.946	1.00	ug/L	127801408
2-Methylphenol (o-Cresol)	1182875	ND	0.692	1.00	ug/L	127801408
2-Nitrophenol	1182875	ND	0.662	1.00	ug/L	127801408
3&4-Methylphenol (m&p-Cresol)	1182875	ND	0.632	1.00	ug/L	127801408
3,3'-Dichlorobenzidine	1182875	ND	0.537	1.00	ug/L	127801408

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
4,6-Dinitro-2-methylphenol	1182875	ND	1.03	2.00	ug/L	127801408
4-Bromophenyl phenyl ether	1182875	ND	0.819	1.00	ug/L	127801408
4-Chlorophenyl phenyl ethe	1182875	ND	0.755	1.00	ug/L	127801408
4-Nitrophenol	1182875	ND	0.243	1.00	ug/L	127801408
Acenaphthene	1182875	ND	0.704	1.00	ug/L	127801408
Acenaphthylene	1182875	ND	0.654	1.00	ug/L	127801408
Aniline	1182875	ND	6.47	7.00	ug/L	127801408
Anthracene	1182875	ND	0.630	1.00	ug/L	127801408
Benzidine	1182875	ND	1.40	1.50	ug/L	127801408
Benzo(a)anthracene	1182875	ND	0.552	1.00	ug/L	127801408
Benzo(a)pyrene	1182875	ND	0.586	1.00	ug/L	127801408
Benzo(b)fluoranthene	1182875	ND	0.761	1.00	ug/L	127801408
Benzo(ghi)perylene	1182875	ND	1.14	2.00	ug/L	127801408
Benzo(k)fluoranthene	1182875	ND	0.844	1.00	ug/L	127801408
Benzyl Butyl phthalate	1182875	ND	0.896	1.00	ug/L	127801408
Bis(2-chloroethoxy)methane	1182875	ND	0.876	1.00	ug/L	127801408
Bis(2-chloroethyl)ether	1182875	ND	0.882	1.00	ug/L	127801408
Bis(2-chloroisopropyl)ether	1182875	ND	0.830	1.00	ug/L	127801408
Bis(2-ethylhexyl)phthalate	1182875	ND	2.11	2.50	ug/L	127801408
Chrysene (Benzo(a)phenanthrene)	1182875	ND	0.553	1.00	ug/L	127801408
Dibenz(a,h)anthracene	1182875	ND	0.975	1.00	ug/L	127801408
Diethyl phthalate	1182875	ND	0.737	1.00	ug/L	127801408
Dimethyl phthalate	1182875	ND	0.664	1.00	ug/L	127801408
Di-n-butylphthalate	1182875	ND	0.725	1.00	ug/L	127801408
Di-n-octylphthalate	1182875	ND	2.05	2.50	ug/L	127801408
Fluoranthene(Benzo(j,k)fluorene)	1182875	ND	0.692	1.00	ug/L	127801408
Fluorene	1182875	ND	0.753	1.00	ug/L	127801408
Hexachlorobenzene	1182875	ND	0.673	1.00	ug/L	127801408
Hexachlorobutadiene	1182875	ND	0.711	1.00	ug/L	127801408
Hexachlorocyclopentadiene	1182875	ND	0.569	1.00	ug/L	127801408
Hexachloroethane	1182875	ND	0.711	1.00	ug/L	127801408
Indeno(1,2,3-cd)pyrene	1182875	ND	1.16	2.00	ug/L	127801408
Isophorone	1182875	ND	0.698	1.00	ug/L	127801408
Naphthalene	1182875	ND	0.771	1.00	ug/L	127801408
Nitrobenzene	1182875	ND	0.732	1.00	ug/L	127801408
n-Nitrosodiethylamine	1182875	ND	2.28	2.50	ug/L	127801408
N-Nitrosodimethylamine	1182875	ND	0.793	1.00	ug/L	127801408
n-Nitroso-di-n-butylamine	1182875	ND	0.550	1.00	ug/L	127801408
N-Nitrosodi-n-propylamine	1182875	ND	0.579	1.00	ug/L	127801408
N-Nitrosodiphenylamine (as DPA	1182875	ND	0.715	1.00	ug/L	127801408
p-Chloro-m-Cresol (4-Chloro-3-me	1182875	ND	0.630	1.00	ug/L	127801408
Pentachlorobenzene	1182875	ND	0.882	1.00	ug/L	127801408
Pentachlorophenol	1182875	ND	0.519	1.00	ug/L	127801408
Phenanthrene	1182875	ND	0.657	1.00	ug/L	127801408
Phenol	1182875	ND	0.404	1.00	ug/L	127801408

QUALITY CONTROL

GBRL-C

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Pyrene	1182875	ND	0.522	1.00	ug/L	127801408
Pyridine	1182875	ND	0.580	1.00	ug/L	127801408

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
1,2,4,5-Tetrachlorobenzene	48200	50000	ug/L	96.4	60.0 - 140	127801407
1,2,4-Trichlorobenzene	59700	50000	ug/L	119	61.0 - 130	127801407
1,2-Dichlorobenzene	60000	50000	ug/L	120	60.0 - 140	127801407
1,2-DPH (as azobenzene)	41700	50000	ug/L	83.4	60.0 - 140	127801407
1,3-Dichlorobenzene	49500	50000	ug/L	99.0	60.0 - 140	127801407
1,4-Dichlorobenzene	49000	50000	ug/L	98.0	60.0 - 140	127801407
2,4,5-Trichlorophenol	52900	50000	ug/L	106	69.0 - 130	127801407
2,4,6-Trichlorophenol	51300	50000	ug/L	103	69.0 - 130	127801407
2,4-Dichlorophenol	57800	50000	ug/L	116	64.0 - 130	127801407
2,4-Dimethylphenol	48100	50000	ug/L	96.2	58.0 - 130	127801407
2,4-Dinitrophenol	63300	50000	ug/L	127	39.0 - 173	127801407
2,4-Dinitrotoluene	57800	50000	ug/L	116	53.0 - 130	127801407
2,6-Dinitrotoluene	57700	50000	ug/L	115	68.0 - 137	127801407
2-Chloronaphthalene	48500	50000	ug/L	97.0	70.0 - 130	127801407
2-Chlorophenol	47500	50000	ug/L	95.0	55.0 - 130	127801407
2-Methylphenol (o-Cresol)	47600	50000	ug/L	95.2	60.0 - 140	127801407
2-Nitrophenol	65100	50000	ug/L	130	61.0 - 163	127801407
3&4-Methylphenol (m&p-Cresol)	42600	50000	ug/L	85.2	60.0 - 140	127801407
3,3'-Dichlorobenzidine	65400	50000	ug/L	131	18.0 - 213	127801407
4,6-Dinitro-2-methylphenol	54200	50000	ug/L	108	56.0 - 130	127801407
4-Bromophenyl phenyl ether	54200	50000	ug/L	108	70.0 - 130	127801407
4-Chlorophenyl phenyl ethe	50900	50000	ug/L	102	57.0 - 145	127801407
4-Nitrophenol	43000	50000	ug/L	86.0	35.0 - 135	127801407
Acenaphthene	48800	50000	ug/L	97.6	70.0 - 130	127801407
Acenaphthylene	50400	50000	ug/L	101	60.0 - 130	127801407
Aniline	38400	50000	ug/L	76.8	60.0 - 140	127801407
Anthracene	50000	50000	ug/L	100	58.0 - 130	127801407
Benzidine	28000	50000	ug/L	56.0	20.0 - 180	127801407
Benzo(a)anthracene	60400	50000	ug/L	121	42.0 - 133	127801407
Benzo(a)pyrene	63500	50000	ug/L	127	32.0 - 148	127801407
Benzo(b)fluoranthene	62000	50000	ug/L	124	42.0 - 140	127801407
Benzo(ghi)perylene	63700	50000	ug/L	127	13.0 - 195	127801407
Benzo(k)fluoranthene	62600	50000	ug/L	125	25.0 - 146	127801407
Benzyl Butyl phthalate	63800	50000	ug/L	128	43.0 - 140	127801407
Bis(2-chloroethoxy)methane	55900	50000	ug/L	112	52.0 - 164	127801407
Bis(2-chloroethyl)ether	41600	50000	ug/L	83.2	52.0 - 130	127801407
Bis(2-chloroisopropyl)ether	51000	50000	ug/L	102	63.0 - 139	127801407
Bis(2-ethylhexyl)phthalate	56200	50000	ug/L	112	43.0 - 137	127801407
Chrysene (Benzo(a)phenanthrene)	57700	50000	ug/L	115	44.0 - 140	127801407
Dibenz(a,h)anthracene	61900	50000	ug/L	124	13.0 - 200	127801407

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Diethyl phthalate	51400	50000	ug/L	103	47.0 - 130	127801407
Dimethyl phthalate	52000	50000	ug/L	104	50.0 - 130	127801407
Di-n-butylphthalate	47400	50000	ug/L	94.8	52.0 - 130	127801407
Di-n-octylphthalate	48700	50000	ug/L	97.4	21.0 - 132	127801407
Fluoranthene(Benzo(j,k)fluorene)	54000	50000	ug/L	108	47.0 - 130	127801407
Fluorene	50500	50000	ug/L	101	70.0 - 130	127801407
Hexachlorobenzene	56900	50000	ug/L	114	38.0 - 142	127801407
Hexachlorobutadiene	61200	50000	ug/L	122	68.0 - 130	127801407
Hexachlorocyclopentadiene	45400	50000	ug/L	90.8	60.0 - 140	127801407
Hexachloroethane	53700	50000	ug/L	107	55.0 - 130	127801407
Indeno(1,2,3-cd)pyrene	60500	50000	ug/L	121	13.0 - 151	127801407
Isophorone	60500	50000	ug/L	121	52.0 - 180	127801407
Naphthalene	52300	50000	ug/L	105	70.0 - 130	127801407
Nitrobenzene	51800	50000	ug/L	104	54.0 - 158	127801407
n-Nitrosodiethylamine	57000	50000	ug/L	114	60.0 - 140	127801407
N-Nitrosodimethylamine	44400	50000	ug/L	88.8	60.0 - 140	127801407
n-Nitroso-di-n-butylamine	53800	50000	ug/L	108	60.0 - 140	127801407
N-Nitrosodi-n-propylamine	40300	50000	ug/L	80.6	59.0 - 170	127801407
N-Nitrosodiphenylamine (as DPA	47100	50000	ug/L	94.2	60.0 - 140	127801407
p-Chloro-m-Cresol (4-Chloro-3-me	53400	50000	ug/L	107	68.0 - 130	127801407
Pentachlorobenzene	53800	50000	ug/L	108	60.0 - 140	127801407
Pentachlorophenol	29500	50000	ug/L	59.0	42.0 - 152	127801407
Phenanthrene	47800	50000	ug/L	95.6	67.0 - 130	127801407
Phenol	41100	50000	ug/L	82.2	48.0 - 130	127801407
Pyrene	62700	50000	ug/L	125	70.0 - 130	127801407
Pyridine	36800	50000	ug/L	73.6	60.0 - 140	127801407

DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 127	632253	198	66384	49.3	40.0 - 60.0	127801406
DFTPP Mass 197	632253	198	205	0.2	0 - 1.00	127801406
DFTPP Mass 198	632253	198	134773	100.0	100 - 100	127801406
DFTPP Mass 199	632253	198	9067	6.7	5.00 - 9.00	127801406
DFTPP Mass 275	632253	198	31526	23.4	10.0 - 30.0	127801406
DFTPP Mass 365	632253	198	4770	3.5	1.00 - 100	127801406
DFTPP Mass 441	632253	443	16479	76.1	0 - 100	127801406
DFTPP Mass 442	632253	198	109944	81.6	40.0 - 100	127801406
DFTPP Mass 443	632253	442	21666	19.7	17.0 - 23.0	127801406
DFTPP Mass 51	632253	198	45451	33.7	30.0 - 60.0	127801406
DFTPP Mass 68	632253	69.0	387	0.7	0 - 2.00	127801406
DFTPP Mass 69	632253	198	57747	42.8	0 - 100	127801406
DFTPP Mass 70	632253	69.0	291	0.5	0 - 2.00	127801406

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
1,2,4,5-Tetrachlorobenzene	1182875	16.8	16.1	25.0	27.5 - 85.5	67.2	64.4	ug/L	4.26	50.0
1,2,4-Trichlorobenzene	1182875	14.8	14.3	25.0	44.0 - 142	59.2	57.2	ug/L	3.44	50.0
1,2-Dichlorobenzene	1182875	17.9	16.1	25.0	23.0 - 81.8	71.6	64.4	ug/L	10.6	50.0
1,2-DPH (as azobenzene)	1182875	18.7	18.3	25.0	12.6 - 110	74.8	73.2	ug/L	2.16	50.0
1,3-Dichlorobenzene	1182875	13.1	12.2	25.0	21.1 - 80.5	52.4	48.8	ug/L	7.11	50.0
1,4-Dichlorobenzene	1182875	14.2	13.0	25.0	21.4 - 76.9	56.8	52.0	ug/L	8.82	50.0
2,4,5-Trichlorophenol	1182875	20.6	21.2	25.0	51.3 - 109	82.4	84.8	ug/L	2.87	50.0
2,4,6-Trichlorophenol	1182875	19.4	20.0	25.0	37.0 - 144	77.6	80.0	ug/L	3.05	58.0
2,4-Dichlorophenol	1182875	19.9	19.1	25.0	39.0 - 135	79.6	76.4	ug/L	4.10	50.0
2,4-Dimethylphenol	1182875	8.18	7.38	25.0	32.0 - 120	32.7	29.5 *	ug/L	10.3	68.0
2,4-Dinitrophenol	1182875	18.6	19.9	25.0	0.100 - 191	74.4	79.6	ug/L	6.75	132
2,4-Dinitrotoluene	1182875	24.8	24.2	25.0	39.0 - 139	99.2	96.8	ug/L	2.45	42.0
2,6-Dinitrotoluene	1182875	23.7	24.0	25.0	50.0 - 158	94.8	96.0	ug/L	1.26	48.0
2-Chloronaphthalene	1182875	19.1	16.9	25.0	60.0 - 120	76.4	67.6	ug/L	12.2	24.0
2-Chlorophenol	1182875	17.6	16.4	25.0	23.0 - 134	70.4	65.6	ug/L	7.06	61.0
2-Methylphenol (o-Cresol)	1182875	16.2	15.3	25.0	38.9 - 76.1	64.8	61.2	ug/L	5.71	50.0
2-Nitrophenol	1182875	20.8	20.1	25.0	29.0 - 182	83.2	80.4	ug/L	3.42	55.0
3&4-Methylphenol (m&p-Cresol)	1182875	15.4	14.2	25.0	33.0 - 70.4	61.6	56.8	ug/L	8.11	50.0
3,3'-Dichlorobenzidine	1182875	21.7	18.2	25.0	0.100 - 262	86.8	72.8	ug/L	17.5	108
4,6-Dinitro-2-methylphenol	1182875	20.5	21.7	25.0	0.100 - 181	82.0	86.8	ug/L	5.69	203
4-Bromophenyl phenyl ether	1182875	22.1	21.8	25.0	53.0 - 127	88.4	87.2	ug/L	1.37	43.0
4-Chlorophenyl phenyl ethe	1182875	20.5	19.7	25.0	25.0 - 158	82.0	78.8	ug/L	3.98	61.0
4-Nitrophenol	1182875	7.48	7.33	25.0	0.100 - 132	29.9	29.3	ug/L	2.03	131
Acenaphthene	1182875	20.2	19.6	25.0	47.0 - 145	80.8	78.4	ug/L	3.02	48.0
Acenaphthylene	1182875	20.2	19.0	25.0	33.0 - 145	80.8	76.0	ug/L	6.12	74.0
Aniline	1182875	15.0	14.1	25.0	70.0 - 130	60.0 *	56.4 *	ug/L	6.19	50.0
Anthracene	1182875	22.7	22.3	25.0	27.0 - 133	90.8	89.2	ug/L	1.78	66.0
Benzidine	1182875	2.92	2.59	25.0	0.100 - 36.9	11.7	10.4	ug/L	11.8	90.0
Benzo(a)anthracene	1182875	22.4	22.3	25.0	33.0 - 143	89.6	89.2	ug/L	0.447	53.0
Benzo(a)pyrene	1182875	22.8	22.7	25.0	17.0 - 163	91.2	90.8	ug/L	0.440	72.0
Benzo(b)fluoranthene	1182875	23.9	23.0	25.0	24.0 - 159	95.6	92.0	ug/L	3.84	71.0
Benzo(ghi)perylene	1182875	22.0	23.0	25.0	0.100 - 219	88.0	92.0	ug/L	4.44	97.0
Benzo(k)fluoranthene	1182875	24.4	24.2	25.0	11.0 - 162	97.6	96.8	ug/L	0.823	63.0
Benzyl Butyl phthalate	1182875	23.9	24.2	25.0	0.100 - 152	95.6	96.8	ug/L	1.25	60.0
Bis(2-chloroethoxy)methane	1182875	22.3	21.2	25.0	33.0 - 184	89.2	84.8	ug/L	5.06	54.0
Bis(2-chloroethyl)ether	1182875	16.0	14.9	25.0	12.0 - 158	64.0	59.6	ug/L	7.12	108
Bis(2-chloroisopropyl)ether	1182875	18.3	16.9	25.0	36.0 - 166	73.2	67.6	ug/L	7.95	76.0
Bis(2-ethylhexyl)phthalate	1182875	21.8	21.9	25.0	8.00 - 158	87.2	87.6	ug/L	0.458	82.0
Chrysene (Benzo(a)phenanthrene)	1182875	23.2	22.7	25.0	17.0 - 168	92.8	90.8	ug/L	2.18	87.0
Dibenz(a,h)anthracene	1182875	22.8	23.2	25.0	0.100 - 227	91.2	92.8	ug/L	1.74	126
Diethyl phthalate	1182875	22.7	22.0	25.0	0.100 - 120	90.8	88.0	ug/L	3.13	100
Dimethyl phthalate	1182875	21.5	21.3	25.0	0.100 - 120	86.0	85.2	ug/L	0.935	183
Di-n-butylphthalate	1182875	24.4	20.6	25.0	1.00 - 120	97.6	82.4	ug/L	16.9	47.0
Di-n-octylphthalate	1182875	18.6	19.0	25.0	4.00 - 146	74.4	76.0	ug/L	2.13	69.0
Fluoranthene(Benzo(j,k)fluorene)	1182875	23.2	19.7	25.0	26.0 - 137	92.8	78.8	ug/L	16.3	66.0

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Fluorene	1182875	21.6	20.4	25.0	59.0 - 121	86.4	81.6	ug/L	5.71	38.0
Hexachlorobenzene	1182875	21.6	21.5	25.0	0.100 - 152	86.4	86.0	ug/L	0.464	55.0
Hexachlorobutadiene	1182875	12.3	11.7	25.0	24.0 - 120	49.2	46.8	ug/L	5.00	62.0
Hexachlorocyclopentadiene	1182875	11.8	11.1	25.0	3.97 - 68.7	47.2	44.4	ug/L	6.11	50.0
Hexachloroethane	1182875	12.5	11.2	25.0	40.0 - 120	50.0	44.8	ug/L	11.0	52.0
Indeno(1,2,3-cd)pyrene	1182875	20.4	21.3	25.0	0.100 - 171	81.6	85.2	ug/L	4.32	99.0
Isophorone	1182875	17.5	17.4	25.0	21.0 - 196	70.0	69.6	ug/L	0.573	93.0
Naphthalene	1182875	17.0	16.3	25.0	21.0 - 133	68.0	65.2	ug/L	4.20	65.0
Nitrobenzene	1182875	17.1	16.8	25.0	35.0 - 180	68.4	67.2	ug/L	1.77	62.0
n-Nitrosodiethylamine	1182875	36.2	33.5	25.0	18.0 - 100	145 *	134 *	ug/L	7.89	50.0
N-Nitrosodimethylamine	1182875	11.1	10.0	25.0	30.2 - 74.9	44.4	40.0	ug/L	10.4	50.0
n-Nitroso-di-n-butylamine	1182875	19.2	18.6	25.0	48.4 - 98.5	76.8	74.4	ug/L	3.17	50.0
N-Nitrosodi-n-propylamine	1182875	20.2	18.6	25.0	0.100 - 230	80.8	74.4	ug/L	8.25	87.0
N-Nitrosodiphenylamine (as DPA	1182875	22.1	21.9	25.0	49.3 - 94.2	88.4	87.6	ug/L	0.909	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1182875	18.5	17.8	25.0	22.0 - 147	74.0	71.2	ug/L	3.86	70.0
Pentachlorobenzene	1182875	20.1	19.2	25.0	39.3 - 93.7	80.4	76.8	ug/L	4.58	50.0
Pentachlorophenol	1182875	18.1	19.4	25.0	14.0 - 176	72.4	77.6	ug/L	6.93	86.0
Phenanthrene	1182875	22.4	22.0	25.0	54.0 - 120	89.6	88.0	ug/L	1.80	39.0
Phenol	1182875	6.55	6.12	25.0	5.00 - 120	26.2	24.5	ug/L	6.71	64.0
Pyrene	1182875	22.0	21.9	25.0	52.0 - 120	88.0	87.6	ug/L	0.456	49.0
Pyridine	1182875	8.94	8.90	25.0	11.2 - 50.6	35.8	35.6	ug/L	0.560	50.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	632190	CCV	59500	100000	ug/L	59.5	10.0 - 150	127801407
2-Fluorophenol-SURR	632190	CCV	49100	100000	ug/L	49.1	10.0 - 150	127801407
4-Terphenyl-d14-SURR	632190	CCV	53900	50000	ug/L	108	30.0 - 150	127801407
Nitrobenzene-d5-SURR	632190	CCV	55000	50000	ug/L	110	30.0 - 150	127801407
Phenol-d6-SURR	632190	CCV	46200	100000	ug/L	46.2	10.0 - 150	127801407
2,4,6-Tribromophenol	1182875	Blank	57.5	100	ug/L	57.5	10.0 - 150	127801408
2,4,6-Tribromophenol	1182875	LCS	71.3	100	ug/L	71.3	10.0 - 150	127801409
2,4,6-Tribromophenol	1182875	LCS Dup	73.3	100	ug/L	73.3	10.0 - 150	127801410
2-Fluorophenol-SURR	1182875	Blank	31100	100000	ug/L	31.1	10.0 - 150	127801408
2-Fluorophenol-SURR	1182875	LCS	35200	100000	ug/L	35.2	10.0 - 150	127801409
2-Fluorophenol-SURR	1182875	LCS Dup	32500	100000	ug/L	32.5	10.0 - 150	127801410
4-Terphenyl-d14-SURR	1182875	Blank	44300	50000	ug/L	88.6	30.0 - 150	127801408
4-Terphenyl-d14-SURR	1182875	LCS	46000	50000	ug/L	92.0	30.0 - 150	127801409
4-Terphenyl-d14-SURR	1182875	LCS Dup	45300	50000	ug/L	90.6	30.0 - 150	127801410
Nitrobenzene-d5-SURR	1182875	Blank	42500	50000	ug/L	85.0	30.0 - 150	127801408
Nitrobenzene-d5-SURR	1182875	LCS	40700	50000	ug/L	81.4	30.0 - 150	127801409
Nitrobenzene-d5-SURR	1182875	LCS Dup	40300	50000	ug/L	80.6	30.0 - 150	127801410
Phenol-d6-SURR	1182875	Blank	21700	100000	ug/L	21.7	10.0 - 150	127801408
Phenol-d6-SURR	1182875	LCS	25800	100000	ug/L	25.8	10.0 - 150	127801409
Phenol-d6-SURR	1182875	LCS Dup	24100	100000	ug/L	24.1	10.0 - 150	127801410
2,4,6-Tribromophenol	2422662	Unknown	80.4	108	ug/L	74.4	10.0 - 150	127801414

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2-Fluorophenol-SURR	2422662	Unknown	34.6	108	ug/L	32.0	10.0 - 150	127801414
4-Terphenyl-d14-SURR	2422662	Unknown	38.9	54.1	ug/L	71.9	30.0 - 150	127801414
Nitrobenzene-d5-SURR	2422662	Unknown	43.1	54.1	ug/L	79.7	30.0 - 150	127801414
Phenol-d6-SURR	2422662	Unknown	26.1	108	ug/L	24.2	10.0 - 150	127801414

Analytical Set 1183938 EPA 624.1

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1183938	174	322	1.0	0 - 2.00	127801501
BFB Mass 174	1183938	95.0	31928	61.6	50.0 - 100	127801501
BFB Mass 175	1183938	174	2331	7.3	5.00 - 9.00	127801501
BFB Mass 176	1183938	174	30685	96.1	95.0 - 101	127801501
BFB Mass 177	1183938	176	2137	7.0	5.00 - 9.00	127801501
BFB Mass 50	1183938	95.0	7874	15.2	15.0 - 40.0	127801501
BFB Mass 75	1183938	95.0	24773	47.8	30.0 - 60.0	127801501
BFB Mass 95	1183938	95.0	51813	100.0	100 - 100	127801501
BFB Mass 96	1183938	95.0	3463	6.7	5.00 - 9.00	127801501

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Epichlorohydrin	1183938	ND	6.85	20.0	ug/L	127801505

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Epichlorohydrin	355	400	ug/L	88.7	70.0 - 130	127801502

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1183938	CCV	200200	200200	100100	300300	127801502	1183938
1,4-DichlorobenzeneD4 (ISTD)	1183938	LCS	205000	200200	100100	300300	127801503	1183938
1,4-DichlorobenzeneD4 (ISTD)	1183938	LCS Dup	191200	200200	100100	300300	127801504	1183938
1,4-DichlorobenzeneD4 (ISTD)	1183938	Blank	185700	200200	100100	300300	127801505	1183938
ChlorobenzeneD5 (ISTD)	1183938	CCV	427200	427200	213600	640800	127801502	1183938
ChlorobenzeneD5 (ISTD)	1183938	LCS	426900	427200	213600	640800	127801503	1183938
ChlorobenzeneD5 (ISTD)	1183938	LCS Dup	406100	427200	213600	640800	127801504	1183938
ChlorobenzeneD5 (ISTD)	1183938	Blank	390300	427200	213600	640800	127801505	1183938
1,4-DichlorobenzeneD4 (ISTD)	2422662	Unknown	184300	200200	100100	300300	127801507	1183938
ChlorobenzeneD5 (ISTD)	2422662	Unknown	392900	427200	213600	640800	127801507	1183938

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1183938	LCS	11.12	11.12	11.06	11.18	127801503	1183938
1,4-DichlorobenzeneD4 (ISTD)	1183938	LCS Dup	11.12	11.12	11.06	11.18	127801504	1183938
1,4-DichlorobenzeneD4 (ISTD)	1183938	Blank	11.12	11.12	11.06	11.18	127801505	1183938
ChlorobenzeneD5 (ISTD)	1183938	LCS	8.751	8.751	8.691	8.811	127801503	1183938
ChlorobenzeneD5 (ISTD)	1183938	LCS Dup	8.751	8.751	8.691	8.811	127801504	1183938

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
ChlorobenzeneD5 (ISTD)	1183938	Blank	8.751	8.751	8.691	8.811	127801505	1183938
1,4-DichlorobenzeneD4 (ISTD)	2422662	Unknown	11.12	11.12	11.06	11.18	127801507	1183938
ChlorobenzeneD5 (ISTD)	2422662	Unknown	8.751	8.751	8.691	8.811	127801507	1183938

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Epichlorohydrin	1183938	425	463	400	27.5 - 189	106	116	ug/L	9.01	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1183938	CCV	15.4	20.0	ug/L	77.0	72.3 - 106	127801502
1,2-DCA-d4 (SURR)	1183938	LCS	15.5	20.0	ug/L	77.5	72.3 - 106	127801503
1,2-DCA-d4 (SURR)	1183938	LCS Dup	15.4	20.0	ug/L	77.0	72.3 - 106	127801504
1,2-DCA-d4 (SURR)	1183938	Blank	15.9	20.0	ug/L	79.5	72.3 - 106	127801505
Bromofluorobenzene (SURR)	1183938	CCV	19.4	20.0	ug/L	97.0	87.2 - 122	127801502
Bromofluorobenzene (SURR)	1183938	LCS	18.9	20.0	ug/L	94.5	87.2 - 122	127801503
Bromofluorobenzene (SURR)	1183938	LCS Dup	19.2	20.0	ug/L	96.0	87.2 - 122	127801504
Bromofluorobenzene (SURR)	1183938	Blank	19.0	20.0	ug/L	95.0	87.2 - 122	127801505
Dibromofluoromethane (SURR)	1183938	CCV	17.8	20.0	ug/L	89.0	46.7 - 114	127801502
Dibromofluoromethane (SURR)	1183938	LCS	17.9	20.0	ug/L	89.5	46.7 - 114	127801503
Dibromofluoromethane (SURR)	1183938	LCS Dup	17.7	20.0	ug/L	88.5	46.7 - 114	127801504
Dibromofluoromethane (SURR)	1183938	Blank	17.8	20.0	ug/L	89.0	46.7 - 114	127801505
TolueneD8 (SURR)	1183938	CCV	16.1	20.0	ug/L	80.5	57.4 - 112	127801502
TolueneD8 (SURR)	1183938	LCS	16.2	20.0	ug/L	81.0	57.4 - 112	127801503
TolueneD8 (SURR)	1183938	LCS Dup	16.1	20.0	ug/L	80.5	57.4 - 112	127801504
TolueneD8 (SURR)	1183938	Blank	15.6	20.0	ug/L	78.0	57.4 - 112	127801505
1,2-DCA-d4 (SURR)	2422662	Unknown	15.9	20.0	ug/L	79.5	72.3 - 106	127801507
Bromofluorobenzene (SURR)	2422662	Unknown	18.8	20.0	ug/L	94.0	87.2 - 122	127801507
Dibromofluoromethane (SURR)	2422662	Unknown	18.4	20.0	ug/L	92.0	46.7 - 114	127801507
TolueneD8 (SURR)	2422662	Unknown	15.4	20.0	ug/L	77.0	57.4 - 112	127801507

Analytical Set 1184165 — EPA METHOD 8015C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ethylene Glycol	1184165	ND	20.0	50.0	mg/L	127806255

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ethylene Glycol	578	500	mg/L	116	70.0 - 130	127806252
Ethylene Glycol	584	500	mg/L	117	70.0 - 130	127806258
Ethylene Glycol	564	500	mg/L	113	70.0 - 130	127806262
Ethylene Glycol	401	500	mg/L	80.2	70.0 - 130	127806263

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ethylene Glycol	1184165	534	570	500	46.1 - 157	107	114	mg/L	6.33	30.0

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MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Ethylene Glycol	2422662	541	0	ND	500	3.50 - 183	108		mg/L		30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Ethylene Glycol	2422815	52900	43500	171	50000	3.50 - 183	105	86.7	mg/L	19.6	30.0

Analytical Set 1184406 — EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Bisphenol A	1182875	ND	1.86	10.0	ug/L	127810590

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Bisphenol A	27900	25000	ug/L	112	70.0 - 130	127810589

Analytical Set 1184708 — EPA 622

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chlorpyrifos	1182869	ND	0.0672	40.0	ug/L	127818088

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chlorpyrifos	1060	1000	ug/L	106	48.0 - 150	127818087
Chlorpyrifos	693	500	ug/L	139	48.0 - 150	127818094
Chlorpyrifos	649	500	ug/L	130	48.0 - 150	127818104

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chlorpyrifos	1182869	508	467	1000	0.100 - 128	50.8	46.7	ug/L	8.41	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1050	1000	ug/L	105	0.100 - 115	127818087
Tributylphosphate		CCV	531	1000	ug/L	53.1	0.100 - 115	127818094
Tributylphosphate		CCV	517	1000	ug/L	51.7	0.100 - 115	127818104
Triphenylphosphate		CCV	1050	1000	ug/L	105	0.100 - 115	127818087
Triphenylphosphate		CCV	623	1000	ug/L	62.3	0.100 - 115	127818094
Triphenylphosphate		CCV	660	1000	ug/L	66.0	0.100 - 115	127818104
Tributylphosphate	1182869	Blank	451	1000	ug/L	45.1	0.100 - 115	127818088
Tributylphosphate	1182869	LCS	506	1000	ug/L	50.6	0.100 - 115	127818089
Tributylphosphate	1182869	LCS Dup	461	1000	ug/L	46.1	0.100 - 115	127818090
Triphenylphosphate	1182869	Blank	495	1000	ug/L	49.5	0.100 - 115	127818088
Triphenylphosphate	1182869	LCS	537	1000	ug/L	53.7	0.100 - 115	127818089
Triphenylphosphate	1182869	LCS Dup	469	1000	ug/L	46.9	0.100 - 115	127818090
Tributylphosphate	2422662	Unknown	0.464	1.08	ug/L	43.0	0.100 - 115	127818091
Triphenylphosphate	2422662	Unknown	0.513	1.08	ug/L	47.5	0.100 - 115	127818091

QUALITY CONTROL

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Analytical Set 1184709 EPA 614

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1182869	ND	38.0	50.0	ug/L	127818113
Demeton	1182869	ND	24.1	50.0	ug/L	127818113
Diazinon	1182869	ND	9.64	50.0	ug/L	127818113
Malathion	1182869	ND	18.9	50.0	ug/L	127818113
Parathion, ethyl	1182869	ND	15.8	50.0	ug/L	127818113
Parathion, methyl	1182869	ND	18.5	40.0	ug/L	127818113

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Azinphos-methyl (Guthion)	1080	1000	ug/L	108	37.5 - 164		127818112
Azinphos-methyl (Guthion)	1130	500	ug/L	227	37.5 - 164	*	127818118
Azinphos-methyl (Guthion)	1070	500	ug/L	214	37.5 - 164	*	127818119
Demeton	1050	1000	ug/L	105	58.6 - 150		127818112
Demeton	527	500	ug/L	105	58.6 - 150		127818118
Demeton	512	500	ug/L	102	58.6 - 150		127818119
Diazinon	1040	1000	ug/L	104	65.4 - 138		127818112
Diazinon	576	500	ug/L	115	65.4 - 138		127818118
Diazinon	533	500	ug/L	107	65.4 - 138		127818119
Malathion	1060	1000	ug/L	106	49.5 - 160		127818112
Malathion	731	500	ug/L	146	49.5 - 160		127818118
Malathion	635	500	ug/L	127	49.5 - 160		127818119
Parathion, ethyl	1070	1000	ug/L	107	56.0 - 142		127818112
Parathion, ethyl	618	500	ug/L	124	56.0 - 142		127818118
Parathion, ethyl	526	500	ug/L	105	56.0 - 142		127818119
Parathion, methyl	1050	1000	ug/L	105	12.6 - 194		127818112
Parathion, methyl	556	500	ug/L	111	12.6 - 194		127818118
Parathion, methyl	486	500	ug/L	97.2	12.6 - 194		127818119

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1182869	514	575	1000	0.100 - 155	51.4	57.5	ug/L	11.2	30.0
Demeton	1182869	426	417	1000	0.100 - 109	42.6	41.7	ug/L	2.14	30.0
Diazinon	1182869	513	474	1000	0.100 - 125	51.3	47.4	ug/L	7.90	30.0
Malathion	1182869	525	481	1000	0.100 - 130	52.5	48.1	ug/L	8.75	30.0
Parathion, ethyl	1182869	590	503	1000	0.100 - 122	59.0	50.3	ug/L	15.9	30.0
Parathion, methyl	1182869	524	482	1000	0.100 - 131	52.4	48.2	ug/L	8.35	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1050	2000	ug/L	52.5	0.100 - 106	127818112
Tributylphosphate		CCV	531	2000	ug/L	26.6	0.100 - 106	127818118
Tributylphosphate		CCV	517	2000	ug/L	25.8	0.100 - 106	127818119
Triphenylphosphate		CCV	1050	2000	ug/L	52.5	0.100 - 172	127818112
Triphenylphosphate		CCV	623	2000	ug/L	31.2	0.100 - 172	127818118

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Triphenylphosphate		CCV	660	2000	ug/L	33.0	0.100 - 172	127818119
Tributylphosphate	1182869	Blank	451	2000	ug/L	22.6	0.100 - 106	127818113
Tributylphosphate	1182869	LCS	506	2000	ug/L	25.3	0.100 - 106	127818114
Tributylphosphate	1182869	LCS Dup	461	2000	ug/L	23.0	0.100 - 106	127818115
Triphenylphosphate	1182869	Blank	495	2000	ug/L	24.8	0.100 - 172	127818113
Triphenylphosphate	1182869	LCS	537	2000	ug/L	26.8	0.100 - 172	127818114
Triphenylphosphate	1182869	LCS Dup	469	2000	ug/L	23.4	0.100 - 172	127818115
Tributylphosphate	2422662	Unknown	0.464	2.16	ug/L	21.5	0.100 - 106	127818199
Triphenylphosphate	2422662	Unknown	0.513	2.16	ug/L	23.8	0.100 - 172	127818199

Analytical Set 1184715 — ASTM D7065-17

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nonylphenol	1184167	ND	5.00	30.0	ug/L	127818267

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nonylphenol	156000	150000	ug/L	104	70.0 - 130	127818266
Nonylphenol	157000	150000	ug/L	104	70.0 - 130	127818273

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	631656	CCV	679300	679300	339600	1019000	127818266	631656
Acenaphthene-d10-ISTD	631656	CCV	543800	679300	339600	1019000	127818273	631656
Phenanthrene-d10-ISTD	631656	CCV	1093000	1093000	546400	1639000	127818266	631656
Phenanthrene-d10-ISTD	631656	CCV	907200	1093000	546400	1639000	127818273	631656
Acenaphthene-d10-ISTD	1184167	Blank	502000	679300	339600	1019000	127818267	1184167
Acenaphthene-d10-ISTD	1184167	LCS	414500	679300	339600	1019000	127818268	1184167
Acenaphthene-d10-ISTD	1184167	LCS Dup	463100	679300	339600	1019000	127818269	1184167
Phenanthrene-d10-ISTD	1184167	Blank	849500	1093000	546400	1639000	127818267	1184167
Phenanthrene-d10-ISTD	1184167	LCS	702500	1093000	546400	1639000	127818268	1184167
Phenanthrene-d10-ISTD	1184167	LCS Dup	764700	1093000	546400	1639000	127818269	1184167
Acenaphthene-d10-ISTD	2422662	Unknown	495800	679300	339600	1019000	127818272	1184167
Phenanthrene-d10-ISTD	2422662	Unknown	832500	1093000	546400	1639000	127818272	1184167

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	631656	CCV	7.600	7.600	7.540	7.660	127818266	631656
Acenaphthene-d10-ISTD	631656	CCV	7.594	7.600	7.540	7.660	127818273	631656
Phenanthrene-d10-ISTD	631656	CCV	8.850	8.850	8.790	8.910	127818266	631656
Phenanthrene-d10-ISTD	631656	CCV	8.850	8.850	8.790	8.910	127818273	631656
Acenaphthene-d10-ISTD	1184167	Blank	7.594	7.600	7.540	7.660	127818267	1184167
Acenaphthene-d10-ISTD	1184167	LCS	7.594	7.600	7.540	7.660	127818268	1184167
Acenaphthene-d10-ISTD	1184167	LCS Dup	7.594	7.600	7.540	7.660	127818269	1184167
Phenanthrene-d10-ISTD	1184167	Blank	8.850	8.850	8.790	8.910	127818267	1184167
Phenanthrene-d10-ISTD	1184167	LCS	8.850	8.850	8.790	8.910	127818268	1184167

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Phenanthrene-d10-ISTD	1184167	LCS Dup	8.850	8.850	8.790	8.910	127818269	1184167
Acenaphthene-d10-ISTD	2422662	Unknown	7.594	7.600	7.540	7.660	127818272	1184167
Phenanthrene-d10-ISTD	2422662	Unknown	8.850	8.850	8.790	8.910	127818272	1184167

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nonylphenol	1184167	118	110	150	56.0 - 112	78.7	73.3	ug/L	7.11	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Nonylphenol-SURR	631656	CCV	26500	25000	ug/L	106	50.0 - 130	127818266
4-Nonylphenol-SURR	631656	CCV	26800	25000	ug/L	107	50.0 - 130	127818273
4-Nonylphenol-SURR	1184167	Blank	18600	25000	ug/L	74.4	50.0 - 130	127818267
4-Nonylphenol-SURR	1184167	LCS	20000	25000	ug/L	80.0	50.0 - 130	127818268
4-Nonylphenol-SURR	1184167	LCS Dup	18800	25000	ug/L	75.2	50.0 - 130	127818269
4-Nonylphenol-SURR	2422662	Unknown	24.8	29.7	ug/L	83.5	50.0 - 130	127818272

Analytical Set 1185463 — EPA 604.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1183076	2.26	0.890	2.50	ug/L	127836704

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	5500	5000	ug/L	110	70.0 - 130	127836703
Hexachlorophene	6260	5000	ug/L	125	70.0 - 130	127836713
Hexachlorophene	5450	5000	ug/L	109	70.0 - 130	127836716
Hexachlorophene	5840	5000	ug/L	117	70.0 - 130	127836719

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1183076	38.0	28.4	50.0	25.5 - 145	76.0	56.8	ug/L	28.9	50.0

Analytical Set 1185733 — TX 1001

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Tributyltin hydride	1184059	ND	0.005	0.007	ug/L	127843201

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Tributyltin hydride	44700	50000	ug/L	89.3	70.0 - 130	127843200

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Tributyltin hydride	1184059	153	152	500	0.100 - 211	30.6	30.4	ug/L	0.656	30.0

Analytical Set 1187766 — EPA 632

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

GBRL-C

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project
1152756

Printed 07/30/2025

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1182867	ND	66.1	2500	ug/L	127893012
Diuron	1182867	ND	44.4	45.0	ug/L	127893012

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	1080	1000	ug/L	108	70.0 - 130	127893011
Carbaryl (Sevin)	1130	1000	ug/L	113	70.0 - 130	127893015
Carbaryl (Sevin)	1130	1000	ug/L	113	70.0 - 130	127893018
Carbaryl (Sevin)	1140	1000	ug/L	114	70.0 - 130	127893021
Diuron	1020	1000	ug/L	102	70.0 - 130	127893011
Diuron	1050	1000	ug/L	105	70.0 - 130	127893015
Diuron	1050	1000	ug/L	105	70.0 - 130	127893018
Diuron	1070	1000	ug/L	107	70.0 - 130	127893021

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1182867	720	862	1000	17.1 - 131	72.0	86.2	ug/L	18.0	30.0
Diuron	1182867	746	980	1000	0.100 - 138	74.6	98.0	ug/L	27.1	30.0

* 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); CCB - Continuing Calibration Blank; CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); 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.); IS Areas - Internal Standard Area (The area of the internal stadard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Stardard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); LDR - Linear Dynamic Range Standard; MRL Check - Minimum Reporting Limit Check Std; AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; DFTPP - GC/MS Tuning Compound; MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.)

1152756 CoC Print Group 001 of 001

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Printed 06/1[illegible]/2025 Page 1 of 5

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Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

GBRL-C-4
448

Lab Number 14[illegible]
c: dept= LabInvoices@gbra.org
PO Number
Phone 830/379-5822

Domestic Worksheet 4.0

Hand Delivered by Client to Region or LAB

✓

Matrix: Non-Potable Water

Sample Collection Start
Date: 6/26/25 Time: 0955

Sampler Printed Name: David Liston - SPL, Inc.

Sampler Affiliation: SPL

Sampler Signature: [signature]

☐ Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biolog[illegible]al Hazard?

0 **On Site Testing**

ClCk Field Cl2 Check for CNa

Field Cl2 Check for CNa

Collected By DEL Date 6/26/25 Time 1025 Analyzed By DEL Date 6/26/25 Time 1026

Results NEG Units — Temp. — C Duplicate NEG Units — Temp. — C

R1 — R2 — QC R1 — QC R2 —

NELAC **Short Hold** Cr6F Hex Cr, Field Preservation SM 3500-Cr B-2011 CAS:18540-[illegible]9-9 (1.00 days)

Hex Cr, Field Preservation

Collected By DEL Date 6/26/25 Time 1027 Analyzed By DEL Date 6/26/25 Time 1028

S2Ck Field Sulfide Check for CNa

1152756 CoC Print Group 001 of 001

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Printed 06/1 /2025 Page 2 of 5

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c dept= LabInvoices@gbra.org

Phone 830/379-5822

Field Sulfide Check for CNa

Collected By DEL Date 6/26/25 Time 1010 Analyzed By _____ Date _____ Time _____

Results NEG Units _____ Temp. _____ C Duplicate _____ Units _____ Temp. _____ C

R1 _____ R2 _____ QC R1 _____ QC R2 _____

✓ 9 **Amber Glass Qt w/Teflon lined lid**

		!CPP	Permit Organophos. Pesticides	EPA 614 (7.00 days)
NELAC		!D2S	Table D-1/ D-2 Semivolatiles Exp	EPA 625.1 (7.00 days)
NELAC		!HER	Herbicides by GC	EPA 615 (7.00 days)
NELAC		!PCB	Polychlorinated Biphenyls	EPA 608.3 (7.00 days)
NELAC		!PPR	TTO Pesticides	EPA 608.3 (7.00 days)
z		#MDR	For use with !PPR only	EPA 617 (7.00 days)
NELAC		402E	For use with EXP !CPP only	EPA 622 (7.00 days)
		BPAE	Bisphenol A Expansion	EPA 625.1 CAS:80-05-7 (7.00 da)
		HXPE	Hexachlorophene Expansion	EPA 604.1 CAS:70-30-4 (7.00 da)
		TBTE	Butyltin Expansion	TX 1001 (14.0 days)
NELAC		TYLC	Carbaryl/Diuron EXP	EPA 632 (7.00 days)

6 **Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid**

NELAC		!EGE	Ethylene Glycol Expansion	EPA METHOD 8015C CAS:107- -1 (30.0 days)
NELAC	Short Hold	$AAE	Acrolein/Acrylonitrile Exp.	EPA 624.1 (3.00 days)
NELAC		$EPE	Epichlorohydrin Exp.	EPA 624.1 (14.0 days)

✓ 2 **H2SO4 to pH <2 GlQt w/Tef-lined lid**

		NYPE	Nonyl Phenol Expansion	ASTM D7065-17 (14.0 days)

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Phone 830/379-5822

X	1	**H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid**			
NELAC		**Phna**	Phenolics, Total Recoverable	EPA 420.4 1 (28.0 days)	
X	3	**Amber Glass Liter w/Teflon lined lid**			
	Subcontract	**1DIX**	Dioxins and Furans Subcontract	1613 CAS:ION1 (30.0 days)	
	0	**Z -- No bottle required**			
	Subcontract	**100S**	SUB Shipped		
		CKLM	Check Limits		
NELAC	**Short Hold**	**Cr+3**	Trivalent Chromium	Calculation CAS:16065-83-1 (1.00 days)	
		HgKt	LL Mercury Test Prep		
		SKL	Sub Hold: PM Attn		
X	1	**HNO3 to pH <2 Polyethylene 500 mL for Metals**			
NELAC		***AgM**	Silver, Total	EPA 200.8 5.4 CAS:7440-22-4 (180 days)	
NELAC		***AlM**	Aluminum, Total	EPA 200.8 5.4 CAS:7429-90-5 (180 days)	
NELAC		***AsM**	Arsenic, Total	EPA 200.8 5.4 CAS:7440-38-2 (180 days)	
NELAC		***BaM**	Barium, Total	EPA 200.8 5.4 CAS:7440-39-3 (180 days)	
NELAC		***BeM**	Beryllium, Total	EPA 200.8 5.4 CAS:7440-41-7 (180 days)	
NELAC		***CdM**	Cadmium, Total	EPA 200.8 5.4 CAS:7440-43-9 (180 days)	
NELAC		***CrM**	Chromium, Total	EPA 200.8 5.4 CAS:7440-47-3 (180 days)	
NELAC		***CuM**	Copper, Total	EPA 200.8 5.4 CAS:7440-50-8 (180 days)	
NELAC		***NiM**	Nickel, Total	EPA 200.8 5.4 CAS:7440-02-0 (180 days)	
NELAC		***PbM**	Lead, Total	EPA 200.8 5.4 CAS:7439-92-1 (180 days)	
NELAC		***SbM**	Antimony, Total	EPA 200.8 5.4 CAS:7440-36-0 (180 days)	
NELAC		***SeM**	Selenium, Total	EPA 200.8 5.4 CAS:7782-49-2 (180 days)	

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Phone 830/379-5822

NELAC		***TlM**	Thallium, Total	EPA 200.8 5.4 CAS:7440-28-0 (180 days)
NELAC		***ZnM**	Zinc, Total	EPA 200.8 5.4 CAS:7440-66-6 (180 days)
		301L	Liquid Metals Digestion	EPA 200.2 2.8 (180 days)

X **3** **Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)**

	Short Hold	**$VOP**	Table D-1/D-2 w/MTBE	EPA 624.1 (3.00 days)

✓ **1** **Glass /clean metals w/HCl**

NELAC		***Hgl**	Mercury, Total (low level)	EPA 245.7 2 CAS:7439-97-6 (90.0 days)
NELAC		**245l**	Low Level Mercury Liquid Metals	EPA 245.7 2 (90.0 days)

3 **Ascorbic Acid - 60ml vial (Zero Headspace)**

		VDWX	DW Volatiles Dechlorination Vial	

DW Volatiles Dechlorination Vial

Collected By DEL Date 6/26/25 Time 1036 Analyzed By DEL Date 6/26/25 Time 1037

2 **NaOH to pH >12 Polyethylene 250 mL/amber**

NELAC		**CNs**	Cyanide, total	SM 4500-CN⁻ E-2016 (14.0 days)
NELAC		**CN-A**	Cyanide - Available/Amenable	SM 4500-CN⁻ G-2016 (14.0 days)
NELAC		**CNCl**	Cyanide After Chlorination	SM 4500-CN⁻ G-2016 (14.0 days)

✓ **1** **Polyethylene Quart**

NELAC		**!FIL**	Fluoride	EPA 300.0 2.1 (28.0 days)
NELAC	**Short Hold**	**!N3L**	Nitrate-Nitrogen Total	EPA 300.0 2.1 CAS:14797-55-8 (2.00 days)

1 **Cr+6 Preserved 250 Polyethylene**

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NELAC **Short Hold** ~~Cr+6~~ Hexavalent Chromium SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)

Ambient Conditions/Comments

Date Time	Relinquished		Date Time	Received	
6/26/25 1700	Printed Name: David Liston - SPL, Inc.	Affiliation	6/26/25 1700	Printed Name TPX	Affiliation
	Signature			Signature	
6/27/25 1040	Printed Name	Affiliation	6/27/25 1040	Printed Name Kiersten Rossum - SPL, Inc.	Affiliation
	Signature TPX			Signature	
	Printed Name	Affiliation		Printed Name	Affiliation
	Signature			Signature	
	Printed Name	Affiliation		Printed Name	Affiliation
	Signature			Signature	

Sample Received on Ice? ☒ Yes ☐ No
Cooler/Sample Secure? ☒ Yes ☐ No **If Shipped: Tracking Number & Temp - See Attached**

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

COOLER CHECKIN

Region/Driver/Client	Centex
Date / Time:	6/27 / 1040
Cooler:	of
Shipping Company:	TPX

Temp Label:

6/27 1040 KR
Date Time Tech
Temp: 0.0 1.0 C
Therm#: 7736 Corr Fact: 0.1 C

1152756 CoC Print Group 001 of 001

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SUBCONTRACT CHAIN OF CUSTODY

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Printed 07/29/2025 Page 1 of 1

Subcontract to:

ALS Laboratory Group/Houston
10450 Stancliff Rd
Houston TX 77099

/ -

Sample	2422662
Taken:	06/26/2025 09:55:00
	GRAB
Normal	

coll_temp

Domestic Worksheet 4.0

1 Amber Glass Liter w/Teflon lined lid, Q

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
07/29/2025 07:49	Affiliation SPL Kilgore	07/29/2025 07:49	Affiliation SPL Kilgore
	Printed Name Andy Owens		Printed Name Michael D. Gribble
	Signature		Signature Michael D Gribble
	Printed Name Michael D. Gribble Affiliation SPL Kilgore		Printed Name Affiliation
	Signature Michael D Gribble		Signature
	Printed Name Affiliation		Printed Name Affiliation
	Signature		Signature
	Printed Name Affiliation		Printed Name Affiliation
	Signature		Signature

Sample Received on Ice? [X] Yes [ ] No
Cooler/Sample Secure? [X] Yes [ ] No

Method of Shipment: [ ] UPS [ ] Bus [ ] FedEx [ ] Lone Star [ ] Hand Delivered [ ] Other

If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region [ ]

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

Project 1152756

Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

Kilgore.ProjectManagement@spllabs.com

3.25.7.15

Form rptSampleSUBNSPL Created 11/16/2020 v1.0

2600 Dudley Rd. Kilgore, Texas 75662
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Office: 903-984-0551 * Fax: 903-984-5914

Project
1160873

GBRL-C

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Printed 09/05/2025
15:53

TABLE OF CONTENTS

Add 4PCB

This report consists of this Table of Contents and the following pages:

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
*Office: 903-984-0551 * Fax: 903-984-5914*

1

SAMPLE CROSS REFERENCE

Project
1160873

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Sample	Sample ID	Taken	Time	Received
2443580	*257804.01-01*	08/04/2025	08:43:00	08/05/2025

Bottle 01 Amber 32 Oz, Q
Bottle 02 Amber 32 Oz, Q
Bottle 03 Amber 32 Oz, Q

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
1613			08/15/2025		08/15/2025
EPA 1668A Subcontract			08/28/2025		08/28/2025

Email: Kilgore.ProjectManagement@spllabs.com

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GBRL-C

Project
1160873

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Printed: 09/05/2025

Add 4PCB

RESULTS

Sample Results

2443580 **257804.01-01** *Received:* 08/05/2025

Non-Potable Water *Collected by:* Client GBRA/Seguin *PO:* dept= LabInvoices@gbra.org
Taken: 08/04/2025 08:43:00
Supplement to Test Report 2434014

	Prepared:	08/05/2025	11:31:10	*Calculated*	08/05/2025	11:31:10	CAL

	Parameter	*Results*	*Units*	*RL*	*Flags*	*CAS*	*Bottle*
z	**SUB Shipped**	**Verified**					

1613 *Prepared:* 08/15/2025 22:32:00 *Analyzed* 08/15/2025 22:32:00 SUB

	Parameter	*Results*	*Units*	*RL*	*Flags*	*CAS*	*Bottle*
z	**Dioxins and Furans Subcontract**	**See Attached**				**ION1**	

EPA 1668A Subcontract *Prepared:* 08/28/2025 00:00:00 *Analyzed* 08/28/2025 00:00:00 SUB

	Parameter	*Results*	*Units*	*RL*	*Flags*	*CAS*	*Bottle*
z	**PCB Congeners (77/81/126/169) (SU**	**See Attached**				**ION1**	

Sample Preparation

2443580 **257804.01-01** *Received:* 08/05/2025

dept= LabInvoices@gbra.org

08/04/2025

	Prepared:	08/19/2025	16:31:00	*Analyzed*	08/19/2025	16:31:00	WJP

z	**Level IV Data Review**	**Completed**					

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GBRL-C

GBRA/Seguin
Miliana Hernandez
Regional Laboratory
933 E. Court St
Seguin, TX 78155-5819

Project
1160873

Printed: 09/05/2025

Qualifiers:

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 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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Seguin, TX 78155-5819

GBRL-C-4
449

Lab Number 2H34014
PO Number acc dept= LabInvoices@gbra.org
Phone 830/379-5822

Dioxins & Furans (Recollect)

250804.01 – 01

☐ *Hand Delivered by Client to Region or LAB*

*Please notify GBRA when samples are shipped/received by subcontracted lab. JM 8/4/25

RUSH 7 Day

Matrix: Non-Potable Water

Sample Collection Start
Date: 08/04/25 Time: 0843
Sampler Printed Name: Jenna Mack
Sampler Affiliation: GBRA
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

3 Amber Glass Liter w/Teflon lined lid, Q

Subcontract !DIX Dioxins and Furans Subcontract 1613 CAS:ION1 (30.0 days)

0 Z -- No bottle required

Subcontract 100S SUB Shipped

SKL Sub Hold: PM Attn

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
		Printed Name / Affiliation		Printed Name / Affiliation	
08/04/25	0957	Jenna Mack / GBRA		Kylie Gudgell / GBRA	
		Signature		Signature	
		Printed Name / Affiliation		Printed Name / Affiliation	
08/04/25	1005	Kylie Gudgell / GBRA		Common Carrier	
		Signature		Signature	
		Printed Name / Affiliation		Printed Name / Affiliation	
8/5/25	1075			McCabe Wheeler - SPL, Inc.	
		Signature		Signature	
		Printed Name / Affiliation		Printed Name / Affiliation	
		Signature		Signature	

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

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

Grab ☐ Composite ☐

Date and time sample(s) collected: N/A

Table 4.0(2)F – Dioxin/Furan Compounds

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

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SUBCONTRACT CHAIN OF CUSTODY

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Printed 08/05/2025 Page 1 of 1

Subcontract to:

ALS Laboratory Group/Houstor
10450 Stancliff Rd
Houston TX 77099

/ -

Sample	2434014
Taken:	08/04/2025 08:43:00
	GRAB
Normal	

coll_temp

257804.01-01

RUSH
DUC 8/14/25

3 Amber Glass Liter w/Teflon lined lid, Q

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
08/05/2025 11:28	Affiliation SPL Kilgore Printed Name McCabe Wheeler Signature	08/05/2025 11:28	Affiliation SPL Kilgore Printed Name Doug Swaim Signature
	Printed Name Doug Swaim Affiliation SPL Kilgore Signature		Printed Name Affiliation Signature
	Printed Name Affiliation Signature		Printed Name Affiliation Signature
	Printed Name Affiliation Signature		Printed Name Affiliation Signature

Sample Received on Ice? [ ] Yes [ ] No
Cooler/Sample Secure? [ ] Yes [ ] No

Method of Shipment: [ ] UPS [ ] Bus [ ] FedEx [ ] Lone Star [ ] Hand Delivered [ ] Other

If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region [ ]

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

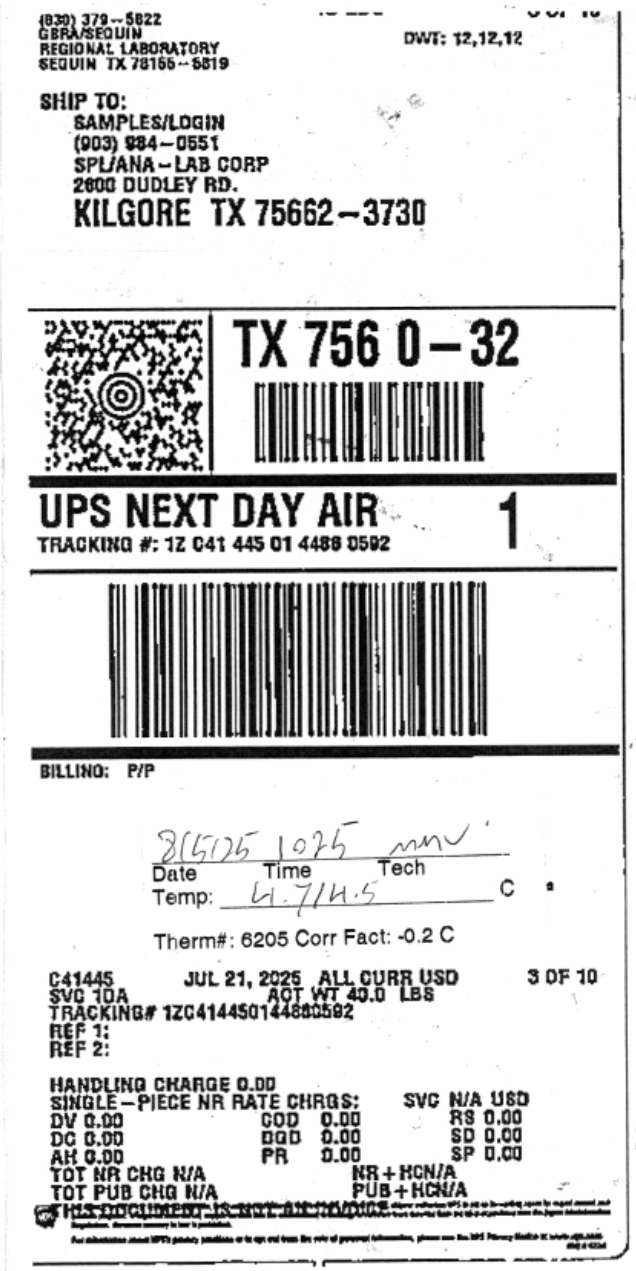
Project 1157049

Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

Kilgore.ProjectManagement@spllabs.com

3.25.7.17

Form rptSampleSUBNSPL Created 11/16/2020 v1.0



(830) 379-5822
GBRA/SEQUIN
REGIONAL LABORATORY
SEQUIN TX 78155-5819

DWT: 12,12,12

SHIP TO:
SAMPLES/LOGIN
(903) 984-0551
SPL/ANA-LAB CORP
2600 DUDLEY RD.
KILGORE TX 75662-3730

TX 756 0-32

UPS NEXT DAY AIR 1

TRACKING #: 1Z C41 445 01 4488 0592

BILLING: P/P

7/25/25 1025 mm
Date Time Tech
Temp: 4.7/4.5 C

Therm#: 6205 Corr Fact: -0.2 C

C41445 JUL 21, 2025 ALL CURR USD 3 OF 10
SVC 10A ACT WT 40.0 LBS
TRACKING# 1ZC41445014488592
REF 1:
REF 2:

HANDLING CHARGE 0.00
SINGLE-PIECE NR RATE CHRGS: SVC N/A USD
DV 0.00 COD 0.00 RS 0.00
DC 0.00 DOD 0.00 SD 0.00
AH 0.00 PR 0.00 SP 0.00
TOT NR CHG N/A NR+HCN/A
TOT PUB CHG N/A PUB+HCN/A

THIS DOCUMENT IS NOT AN INVOICE

August 19, 2025 Service Request No:E2500695

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518

Laboratory Results for: 257804.01-01

Dear Project Manager,

Enclosed are the results of the sample(s) submitted to our laboratory August 06, 2025
For your reference, these analyses have been assigned our service request number **E2500695.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request No.:**	E2500695
Project:	257804.01-01	**Date Received:**	08/06/25
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 08/06/25.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2500358: Laboratory Control Spike / **Duplicate Laboratory Control Spike (LCS/DLCS)** samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

B flags – Method Blanks

The Method Blank EQ2500358-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

One compound, OCDD, was above the MRL (CRQL). ALS/Houston follows the ***EPA National Functional Guidelines for CDDs and CDFs, September 2005,*** which states on page 31, "The concentration of OCDD/OCDF in the method blank must be <3x the CRQL (MRL.):"

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'
- The 1:1 and associated dilution have been combined into one TEQ Summary report
- EPA-89 TEFs, "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989)

- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 2434014			Lab ID: E2500695-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,2,3,4,6,7,8-HpCDD	0.947	BJK	0.0703	25.1	pg/L	1613B
1,2,3,4,6,7,8-HpCDF	83.6		1.04	25.1	pg/L	1613B
1,2,3,4,7,8,9-HpCDF	4.24	BJK	1.11	25.1	pg/L	1613B
1,2,3,4,7,8-HxCDD	0.572	BJK	0.0754	25.1	pg/L	1613B
1,2,3,4,7,8-HxCDF	9.63	J	0.939	25.1	pg/L	1613B
1,2,3,6,7,8-HxCDF	2.17	JK	0.986	25.1	pg/L	1613B
1,2,3,7,8,9-HxCDD	1.03	J	0.0693	25.1	pg/L	1613B
1,2,3,7,8-PeCDD	0.793	J	0.672	25.1	pg/L	1613B
1,2,3,7,8-PeCDF	0.617	JK	0.105	25.1	pg/L	1613B
2,3,4,7,8-PeCDF	0.485	JK	0.104	25.1	pg/L	1613B
OCDD	4.71	BJ	0.126	50.2	pg/L	1613B
OCDF	342		3.69	50.2	pg/L	1613B
Total Hepta-Dioxins	1.64	J	0.0703	25.1	pg/L	1613B
Total Hepta-Furans	84.3		1.08	25.1	pg/L	1613B
Total Hexa-Dioxins	1.03	J	0.0713	25.1	pg/L	1613B
Total Hexa-Furans	15.2	J	1.02	25.1	pg/L	1613B
Total Penta-Dioxins	1.64	J	0.672	25.1	pg/L	1613B
Total Penta-Furans	0.728	J	0.104	25.1	pg/L	1613B
Total TEQ	3.29				pg/L	1613B
Total Tetra-Furans	4.68	J	1.59	5.02	pg/L	1613B

Client: SPL, Inc.-Ana-lab **Service Request:**E2500695
Project: 257804.01-01

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2500695-001	2434014	8/4/2025	0843

Service Request Summary

Folder #: **E2500695**
Client Name: SPL, Inc.-Ana-lab
Project Name: 257804.01-01
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: EZHEKU
Date Received: 08/06/25
Internal Due Date: 8/20/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 8A
Pressure Gas:
RUSH **NPDESRushNPDES**

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS Dioxins Furans/1613B
E2500695-001	2434014	Water	08/04/25 0843	II

Service Request Summary

Folder #: **E2500695**
Client Name: SPL, Inc.-Ana-lab
Project Name: 257804.01-01
Project Number:

Report To:

SPL, Inc.-Ana-lab
101 Ibex Lane
Broussard, LA 70518
USA

Phone Number: 903-984-0551
Cell Number:
Fax Number: 903-984-5914
E-mail: kilgore.projectmanagement@spllabs.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: EZHEKU
Date Received: 08/06/25
Internal Due Date: 8/20/2025
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 8A
Pressure Gas:
RUSH **NPDESRushNPDES**

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793-2025	5/27/2026
Arkansas Department of Environmental Quality	88-00356 - 2025	3/17/2026
California State Environmental Laboratory Accreditation Program	2919-2025	4/30/2026
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-2025/26	6/30/2026
Florida Department of Health	E87611-2025/26	6/30/2026
Louisiana Department of Environmental Quality	03087-2025/26	6/30/2026
Louisiana Department of Health and Hospitals	LA028-2025	12/31/2025
Maine Department of Health and Human Services	2024017	6/23/2026
Michigan Depratment of Environmental Quality	9971-2025/26	4/30/2026
Minnesota Department of Health	2856348	12/31/2025
Nebraska Department of Health and Human Services	NE-OS-25-13 - 2025	4/30/2026
New Hampshire Environmental Laboratory Accreditation Program	209425	4/24/2026
New Jersey Department of Environmental Protection	TX008-2025/26	6/30/2026
New York Department of Health	11707-2025	4/1/2026
Oklahoma Department of Environmental Quality	2024-099	8/31/2025
Oregon Environmental Laboratory Accreditation Program	TX200002-2025	5/15/2026
Pennsylvania Department of Environmental Protection	68-03441-019	7/1/2026
Perry Johnson Laboratory Accreditation	116454 (ISO/IEC)	4/30/2026
Tennessee Department of Environment and Conservation	04016-2025	4/30/2026
Texas Commision on Environmental Quality	TX-C25-00104	4/30/2026
Washington Department of Ecology	C819-23	11/14/2025

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID: E2500695 | DB-5MSUI | SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
08/18/25	LKL	001

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
8/18/25	[signature]	001

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL The Science of Sure

SUBCONTRACT CHAIN OF CUSTODY

Printed 08/05/2025

Subcontract to:

ALS Laboratory Group/Houston
10450 Stancliff Rd
Houston TX 77099
/ -

E2500695 5
SPL, Inc.-Ana-lab
257804.01-01

Sample	2434014
Taken:	08/04/2025 08:43:00
	GRAB
Normal	

coll_temp

257804.01-01

x3 Amber Glass Liter w/Teflon lined lid, Q

RUSH
DUC 8/14/25

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
08/05/2025 11:28	Affiliation SPL Kilgore Printed Name McCabe Wheeler Signature	08/05/2025 11:28	Affiliation SPL Kilgore Printed Name Doug Swaim Signature
8/5	Printed Name Doug Swaim Affiliation SPL Kilgore Signature		Printed Name Affiliation Signature
	Printed Name Affiliation Signature		Printed Name Affiliation Signature
	Printed Name Affiliation Signature		Printed Name Affiliation Signature

Sample Received on Ice? [ ] Yes [ ] No
Cooler/Sample Secure? [ ] Yes [ ] No

Method of Shipment: [ ] UPS [ ] Bus [ ] FedEx [ ] Lone Star [ ] Hand Delivered [ ] Other
If Shipped: Tracking Number & Temp - See Attached

Hand Delivered to Region [ ]

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

Recvd By: 8/6/25 10:40
Form OK 2.2°
+34
CF 0.0

Project 1157049

Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

Kilgore.ProjectManagement@spllabs.com

E2500695 5

SPL, Inc.-Ana-lab
257804.01-01

10450 Stancliff Road, Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Client: SYL Date: 08/06/25 WO#:

Time Received: 10:40 Received by: D.G BO#:

Matrices: Solid/Sludge (Water) Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLK Present?
Foam	-	2.2 / 2.2	34	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx (UPS) Greyhound ALS Client Other

Date/Time of Unpacking: 08/06/25 14:32 Unpacked by: GD.T

Shipping container/cooler in good condition?	(Yes)	No	Not Present
Custody seals intact on shipping container/cooler?	(Yes)	No	Not Present
Custody seals intact on sample bottles?	Yes	No	(Not Present)
Chain of Custody present?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of Custody - Sampler's name present?	(Yes)	No	
Chain of Custody agrees with sample labels?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	(No VOA/TX1005/1006 Solid
Sample containers intact?	(Yes)	No	
Sufficient sample volume for indicated test?	(Yes)	No	
Sufficient volume for MS/MSD for ALL tests?	Yes	No	(N/A) Unsure Comments
All samples received within holding time?	(Yes)	No	
Container/Temp Blank temperature in compliance?	(Yes)	No	
Water - VOA vials have zero headspace?	Yes	No	(N/A) No VOA submitted
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?	Yes	No	(N/A)
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	(N/A)
pH adjusted?	Yes*	No	(N/A) *See Preservation Logbook

pH adjusted by: _____ **pH Paper Lot:** _____

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 462185 **Prep WorkFlow:** OrgExtAq(365) **Status:** Draft
Team: Semivoa GCMS/MDESAI **Prep Method:** **Prep Date/Time:** 8/11/25 11:51 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext.	pH	Cl	I	M	C	Sample Description
1	E2500665-004	Day 2 MDL #4 - 5 pg/L (P6)	.01		1613B / Dioxins Furans	Water	1000	5	X	W	W		LOD MDL 50uL
2	E2500665-005	Day 2 MDL #5 - 5 pg/L (P6)	.01		1613B / Dioxins Furans	Water	1000	↓	↓	↓	W		↓
3	E2500665-006	Day 3 MDL #6 - 5 pg/L (P6)	.01		1613B / Dioxins Furans	Water	1000	↓	↓	↓	W		↓
4	E2500695-001	2434014	.01		1613B / Dioxins Furans	Water	996	6	X	↓			1437.6 Clear 441.5
5	E2500698-001	VT-680	.01		1613B / Dioxin Furans Unadjusted MRL	Ground Water	981	9	X	↓			1462.9 V. light yellow 482.8
6	E2500698-002	EDC Process	.01		1613B / Dioxin Furans Unadjusted MRL	Ground Water	1013	9	X	↓			1496.1 V. light brown 482.7
7	E2500698-003	TZT-07	.01		1613B / Dioxin Furans Unadjusted MRL	Ground Water	1005	7	X	↓			1486.1 V. light green 484
8	E2500698-004	Biological @Sump Probe	.01		1613B / Dioxin Furans Unadjusted MRL	Ground Water	998	7	X	↓			1477.5 ↓ 479.5
9	E2500698-005	Physical @Sump PH Probe	.01		1613B / Dioxin Furans Unadjusted MRL	Ground Water	1015	5	X	↓			1498.7 V. light green 483
10	E2500700-001	Robinson Creek Effluent	.01		1613B / Dioxins Furans	Water	996	5	X	↓			1479.6 V. light yellow 483.4
11	E2500701-001	ND Davidson Influent	.01		1613B / Dioxins Furans	Water	991	6	X	↓			1465.5 Cloudy 484.3
12	E2500702-001	ND Davidson Effluent	.01		1613B / Dioxins Furans	Water	973	5	X	↓			1456.5 cloudy 484.7
13	E2500703-001	AJ Brown Influent	.01		1613B / Dioxins Furans	Water	986	6	X	↓			1470 Cloudy 484.1
14	E2500707-001	2434951	.01		1613B / Dioxins Furans	Water	861	5	X	↓			1304.5 Clear 442.9
15	E2500708-001	MTF-PP	.01		1613B / Dioxins Furans	Water	1052	5	X	↓			1557 Clear 505.7
16	E2500709-001	AJ Brown Effluent	.01		1613B / Dioxins Furans	Water	963	5	X	↓			1448.2 Clear 484.5
17	E2500710-001	Robinson Creek Influent	.01		1613B / Dioxins Furans	Water	978	6	X	↓			1461.8 brown 484.3
18	EQ2500358-01	MB			1613B / Dioxins Furans	Liquid	1000	5	X	↓			
19	EQ2500358-02	LCS			1613B / Dioxins Furans	Liquid	1000	↓	↓	↓	W		
20	EQ2500358-03	DLCS			1613B / Dioxins Furans	Liquid	1000	↓	↓	↓	W		

SPikelot 2:55PM 8/11/25

I: LWS: 243206 @ 1000uL 2-4ng/mL / MDL/LOD: 242772 @ 50uL
M: MWS: 242967 @ 1000uL 2-20ng/mL
C: CWS: 242864 @ 1000uL 8ng/mL

Supplementary Analytical Record

General Information

Batch Number: 358
Prep. Run Number: 462185
Method: 1613B
Matrix: Water
Apparatus Used: Lg. Soxhlets / Small Soxhlets / Half-Gallon Jars / 250 mL Jars

Extraction

Hexane Lot #:	241863	Chlorine Strips Lot #:	241871
Dichloromethane Lot #:	239815	pH Strips Lot #:	240083
Toluene Lot #:	242940	Sodium Sulfate Lot #:	235888
Tridecane Lot #:	240896	Acid Lot #:	
Methanol Lot #:		Sodium Thiosulfate Lot #:	
Corn Oil Lot #:		Resin Lot #:	
Balance Serial Number:	HRMS-01	Ottawa Sand ID:	

Rotovap: Rotovap 1 | or Rotovap 2 | | Analyst:

Acid Clean-Up

Sulfuric Acid Lot #: N/A
Sodium Chloride Lot #:

Column Clean-Up

Hexane Lot #:	241863	NaOH Silica Gel ID:	326.22071?
Dichloromethane Lot #:	239815	H2SO4 Silica Gel ID:	326.22?18
Toluene Lot #:	242940	Silica Gel Lot #:	236863 → 295203404
Ethyl Acetate Lot #:	228820	Carbon Lot #:	241026 → 295203403
Glass Wool Lot #:	229605	Sodium Hydroxide Lot #:	
Balance Serial Number:	HRMS-01	Sulfuric Acid Lot #:	
		Sodium Sulfate Lot #:	3/482/1412

Additional Notes:

Abbreviation Key:

Bench Sheet:
B#: LIMS bottle number
V: Chlorine Check (X = False)
I: Internal Standard Witness (Initials)
M: Matrix Witness (Initials)
C: Cleanup Standard Witness (Initials)

STO Tracking:

I: Internal Spike (LIMS ID; Name; Conc; Initials)
M: Matrix Spike (LIMS ID; Name; Conc; Initials)
C: Cleanup Spike (LIMS ID; Name; Conc; Initials)

*Where additional standards are added to the sample, distinctions are made using unique symbols to indicate which standards are added to which samples.

Start-Time Processing:

Extraction: 8/11/25 to 8/14/25
Spike Time: 2:55PM Start Time: 8/11/25 4:00PM
Acid Clean-Up: 8/13/25 11:40 12 pm
Column Clean-Up: NA 12:30 to 5:00 PM
Final Volume: 8/14/25 8:30 to 11:24 PM

Soxhlet:

Date/Time Up:
Date/Time Down:

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	08/04/25 08:43
Sample Matrix:	Water	**Date Received:**	08/06/25 10:40
Sample Name:	2434014	**Units:**	pg/L
Lab Code:	E2500695-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/15/25 22:32
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	996mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P553942	**Blank File Name:**	P643135
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P553939

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	3.28	5.02			1
1,2,3,7,8-PeCDD	0.793**J**		0.672	25.1	1.47	1.000	1
1,2,3,4,7,8-HxCDD	0.572**BJK**		0.0754	25.1	1.03	1.000	1
1,2,3,6,7,8-HxCDD	ND	U	0.0683	25.1			1
1,2,3,7,8,9-HxCDD	1.03**J**		0.0693	25.1	1.35	1.007	1
1,2,3,4,6,7,8-HpCDD	0.947**BJK**		0.0703	25.1	0.73	1.000	1
OCDD	4.71**BJ**		0.126	50.2	0.84	0.999	1
2,3,7,8-TCDF	ND	U	1.59	5.02			1
1,2,3,7,8-PeCDF	0.617**JK**		0.105	25.1	0.48	1.001	1
2,3,4,7,8-PeCDF	0.485**JK**		0.104	25.1	0.34	1.001	1
1,2,3,4,7,8-HxCDF	9.63**J**		0.939	25.1	1.10	1.000	1
1,2,3,6,7,8-HxCDF	2.17**JK**		0.986	25.1	0.70	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	1.10	25.1			1
2,3,4,6,7,8-HxCDF	ND	U	1.04	25.1			1
1,2,3,4,6,7,8-HpCDF	83.6		1.04	25.1	0.91	1.000	1
1,2,3,4,7,8,9-HpCDF	4.24**BJK**		1.11	25.1	1.65	1.000	1
OCDF	342		3.69	50.2	0.83	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	08/04/25 08:43
Sample Matrix:	Water	**Date Received:**	08/06/25 10:40
Sample Name:	2434014	**Units:**	pg/L
Lab Code:	E2500695-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/15/25 22:32
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	996mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P553942	**Blank File Name:**	P643135
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P553939

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	3.28	5.02			1
Total Penta-Dioxins	1.64**J**		0.672	25.1	1.47		1
Total Hexa-Dioxins	1.03**J**		0.0713	25.1	1.35		1
Total Hepta-Dioxins	1.64**J**		0.0703	25.1	1.00		1
Total Tetra-Furans	4.68**J**		1.59	5.02	0.78		1
Total Penta-Furans	0.728**J**		0.104	25.1	1.58		1
Total Hexa-Furans	15.2**J**		1.02	25.1	1.14		1
Total Hepta-Furans	84.3		1.08	25.1	0.91		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	08/04/25 08:43
Sample Matrix:	Water	**Date Received:**	08/06/25 10:40
Sample Name:	2434014	**Units:**	Percent
Lab Code:	E2500695-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/15/25 22:32
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	996mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P553942	**Blank File Name:**	P643135
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P553939

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1327.024	66		25-164	0.77	1.023
13C-1,2,3,7,8-PeCDD	2000	1622.159	81		25-181	1.62	1.197
13C-1,2,3,4,7,8-HxCDD	2000	1457.738	73		32-141	1.25	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1494.044	75		28-130	1.22	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1575.143	79		23-140	1.10	1.067
13C-OCDD	4000	3224.418	81		17-157	0.90	1.140
13C-2,3,7,8-TCDF	2000	1025.097	51		24-169	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1333.711	67		24-185	1.61	1.153
13C-2,3,4,7,8-PeCDF	2000	1341.926	67		21-178	1.60	1.187
13C-1,2,3,4,7,8-HxCDF	2000	1298.334	65		26-152	0.50	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1164.315	58		26-123	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1400.729	70		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1214.162	61		28-136	0.50	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1297.620	65		28-143	0.44	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1545.757	77		26-138	0.44	1.080
37Cl-2,3,7,8-TCDD	800	470.436	59		35-197	NA	1.024

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	08/04/25 08:43
Sample Matrix:	Water	**Date Received:**	08/06/25 10:40
Sample Name:	2434014	**Units:**	pg/L
Lab Code:	E2500695-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	3.28	5.02	1	1	
1,2,3,7,8-PeCDD	**0.793**	0.672	25.1	1	1	0.793
1,2,3,4,7,8-HxCDD	**0.572**	0.0754	25.1	1	0.1	0.0572
1,2,3,6,7,8-HxCDD	ND	0.0683	25.1	1	0.1	
1,2,3,7,8,9-HxCDD	**1.03**	0.0693	25.1	1	0.1	0.103
1,2,3,4,6,7,8-HpCDD	**0.947**	0.0703	25.1	1	0.01	0.00947
OCDD	**4.71**	0.126	50.2	1	0.0003	0.00141
2,3,7,8-TCDF	ND	1.59	5.02	1	0.1	
1,2,3,7,8-PeCDF	**0.617**	0.105	25.1	1	0.03	0.0185
2,3,4,7,8-PeCDF	**0.485**	0.104	25.1	1	0.3	0.146
1,2,3,4,7,8-HxCDF	**9.63**	0.939	25.1	1	0.1	0.963
1,2,3,6,7,8-HxCDF	**2.17**	0.986	25.1	1	0.1	0.217
1,2,3,7,8,9-HxCDF	ND	1.10	25.1	1	0.1	
2,3,4,6,7,8-HxCDF	ND	1.04	25.1	1	0.1	
1,2,3,4,6,7,8-HpCDF	**83.6**	1.04	25.1	1	0.01	0.836
1,2,3,4,7,8,9-HpCDF	**4.24**	1.11	25.1	1	0.01	0.0424
OCDF	**342**	3.69	50.2	1	0.0003	0.103
		Total TEQ				3.29

2005 WHO TEFs, ND = 0

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500358-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/14/25 15:26
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-08
		GC Column:	DB-5MSUI
Data File Name:	P643135	**Blank File Name:**	P643135
ICAL Date:	07/23/25	**Cal Ver. File Name:**	P643132

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.61	5.00			1
1,2,3,7,8-PeCDD	ND	U	0.545	25.0			1
1,2,3,4,7,8-HxCDD	0.557**J**		0.363	25.0	1.18	1.001	1
1,2,3,6,7,8-HxCDD	ND	U	0.318	25.0			1
1,2,3,7,8,9-HxCDD	ND	U	0.328	25.0			1
1,2,3,4,6,7,8-HpCDD	1.32**JK**		0.471	25.0	1.48	1.001	1
OCDD	9.18**J**		1.36	50.0	0.86	1.000	1
2,3,7,8-TCDF	ND	U	1.89	5.00			1
1,2,3,7,8-PeCDF	ND	U	0.720	25.0			1
2,3,4,7,8-PeCDF	ND	U	0.686	25.0			1
1,2,3,4,7,8-HxCDF	ND	U	0.320	25.0			1
1,2,3,6,7,8-HxCDF	ND	U	0.334	25.0			1
1,2,3,7,8,9-HxCDF	1.18**JK**		0.449	25.0	1.92	1.001	1
2,3,4,6,7,8-HxCDF	ND	U	0.361	25.0			1
1,2,3,4,6,7,8-HpCDF	0.678**JK**		0.250	25.0	0.57	1.000	1
1,2,3,4,7,8,9-HpCDF	0.895**JK**		0.278	25.0	0.72	1.000	1
OCDF	3.80**J**		1.91	50.0	0.80	1.004	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2500358-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/14/25 15:26
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-08
		GC Column:	DB-5MSUI
Data File Name:	P643135	**Blank File Name:**	P643135
ICAL Date:	07/23/25	**Cal Ver. File Name:**	P643132

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.61	5.00			1
Total Penta-Dioxins	ND	U	0.545	25.0			1
Total Hexa-Dioxins	0.557**J**		0.336	25.0	1.18		1
Total Hepta-Dioxins	1.87**J**		0.471	25.0	1.18		1
Total Tetra-Furans	ND	U	1.89	5.00			1
Total Penta-Furans	ND	U	0.703	25.0			1
Total Hexa-Furans	ND	U	0.360	25.0			1
Total Hepta-Furans	ND	U	0.264	25.0			1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ2500358-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/14/25 15:26
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-08
		GC Column:	DB-5MSUI
Data File Name:	P643135	**Blank File Name:**	P643135
ICAL Date:	07/23/25	**Cal Ver. File Name:**	P643132

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	975.768	49		25-164	0.77	1.028
13C-1,2,3,7,8-PeCDD	2000	1083.205	54		25-181	1.57	1.236
13C-1,2,3,4,7,8-HxCDD	2000	1190.676	60		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1344.421	67		28-130	1.29	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	977.427	49		23-140	1.03	1.071
13C-OCDD	4000	1207.964	30		17-157	0.94	1.141
13C-2,3,7,8-TCDF	2000	839.312	42		24-169	0.79	0.990
13C-1,2,3,7,8-PeCDF	2000	1095.961	55		24-185	1.59	1.184
13C-2,3,4,7,8-PeCDF	2000	1107.877	55		21-178	1.59	1.224
13C-1,2,3,4,7,8-HxCDF	2000	1403.259	70		26-152	0.50	0.968
13C-1,2,3,6,7,8-HxCDF	2000	1329.385	66		26-123	0.52	0.971
13C-1,2,3,7,8,9-HxCDF	2000	1187.509	59		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1258.028	63		28-136	0.49	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	973.894	49		28-143	0.43	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1008.083	50		26-138	0.45	1.083
37Cl-2,3,7,8-TCDD	800	407.837	51		35-197	NA	1.029

Accuracy & Precision

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Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Analyzed:**	08/14/25
Sample Matrix:	Water	**Date Extracted:**	08/11/25

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Units:**	pg/L
Prep Method:	Method Sep Funnel/Jar	**Basis:**	NA
		Analysis Lot:	890015

	Lab Control Sample EQ2500358-02			Duplicate Lab Control Sample EQ2500358-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,3,4,6,7,8-HpCDD	988	1000	99	1020	1000	102	70-140	3	50
1,2,3,4,7,8-HxCDD	1010	1000	101	1040	1000	104	70-164	3	50
1,2,3,6,7,8-HxCDD	875	1000	88	897	1000	90	76-134	2	50
1,2,3,7,8,9-HxCDD	974	1000	97	969	1000	97	64-162	<1	50
1,2,3,7,8-PeCDD	928	1000	93	940	1000	94	70-142	1	50
2,3,7,8-TCDD	188	200	94	194	200	97	67-158	3	50
OCDD	1780	2000	89	1900	2000	95	78-144	7	50
1,2,3,4,6,7,8-HpCDF	981	1000	98	984	1000	98	82-122	<1	50
1,2,3,4,7,8,9-HpCDF	903	1000	90	943	1000	94	78-138	4	50
1,2,3,4,7,8-HxCDF	822	1000	82	827	1000	83	72-134	<1	50
1,2,3,6,7,8-HxCDF	888	1000	89	902	1000	90	84-130	2	50
1,2,3,7,8,9-HxCDF	890	1000	89	918	1000	92	78-130	3	50
1,2,3,7,8-PeCDF	912	1000	91	943	1000	94	80-134	3	50
2,3,4,6,7,8-HxCDF	905	1000	91	903	1000	90	70-156	<1	50
2,3,4,7,8-PeCDF	944	1000	94	962	1000	96	68-160	2	50
2,3,7,8-TCDF	208	200	104	219	200	110	75-158	5	50
OCDF	2050	2000	102	1990	2000	99	63-170	3	50

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500358-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/14/25 22:50
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-08
		GC Column:	DB-5MSUI
Data File Name:	P643144	**Blank File Name:**	P643135
ICAL Date:	07/23/25	**Cal Ver. File Name:**	P643132

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	188		1.43	5.00	0.78	1.001	1
1,2,3,7,8-PeCDD	928		0.905	25.0	1.59	1.001	1
1,2,3,4,7,8-HxCDD	1010		0.410	25.0	1.31	1.000	1
1,2,3,6,7,8-HxCDD	875		0.364	25.0	1.28	1.000	1
1,2,3,7,8,9-HxCDD	974		0.373	25.0	1.29	1.007	1
1,2,3,4,6,7,8-HpCDD	988		0.563	25.0	1.02	1.000	1
OCDD	1780		4.29	50.0	0.93	1.000	1
2,3,7,8-TCDF	208		1.14	5.00	0.74	1.001	1
1,2,3,7,8-PeCDF	912		0.870	25.0	1.53	1.001	1
2,3,4,7,8-PeCDF	944		0.852	25.0	1.53	1.001	1
1,2,3,4,7,8-HxCDF	822		0.353	25.0	1.22	1.000	1
1,2,3,6,7,8-HxCDF	888		0.382	25.0	1.23	1.000	1
1,2,3,7,8,9-HxCDF	890		0.487	25.0	1.25	1.000	1
2,3,4,6,7,8-HxCDF	905		0.400	25.0	1.20	1.000	1
1,2,3,4,6,7,8-HpCDF	981		2.01	25.0	1.04	1.000	1
1,2,3,4,7,8,9-HpCDF	903		2.52	25.0	1.03	1.000	1
OCDF	2050		4.16	50.0	0.92	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500358-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/14/25 22:50
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-08
		GC Column:	DB-5MSUI
Data File Name:	P643144	**Blank File Name:**	P643135
ICAL Date:	07/23/25	**Cal Ver. File Name:**	P643132

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	188		1.43	5.00	0.78		1
Total Penta-Dioxins	928		0.905	25.0	1.59		1
Total Hexa-Dioxins	2860		0.381	25.0	1.31		1
Total Hepta-Dioxins	988		0.563	25.0	1.02		1
Total Tetra-Furans	208		1.14	5.00	0.80		1
Total Penta-Furans	1860		0.861	25.0	1.53		1
Total Hexa-Furans	3510		0.401	25.0	1.22		1
Total Hepta-Furans	1880		2.24	25.0	1.04		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500358-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/14/25 22:50
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-08
		GC Column:	DB-5MSUI
Data File Name:	P643144	**Blank File Name:**	P643135
ICAL Date:	07/23/25	**Cal Ver. File Name:**	P643132

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1268.775	63		25-164	0.78	1.028
13C-1,2,3,7,8-PeCDD	2000	1278.279	64		25-181	1.58	1.236
13C-1,2,3,4,7,8-HxCDD	2000	1351.804	68		32-141	1.27	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1609.333	80		28-130	1.27	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1047.883	52		23-140	1.03	1.071
13C-OCDD	4000	1208.294	30		17-157	0.92	1.142
13C-2,3,7,8-TCDF	2000	1134.458	57		24-169	0.80	0.990
13C-1,2,3,7,8-PeCDF	2000	1335.271	67		24-185	1.58	1.185
13C-2,3,4,7,8-PeCDF	2000	1330.449	67		21-178	1.56	1.225
13C-1,2,3,4,7,8-HxCDF	2000	1737.299	87		26-152	0.51	0.968
13C-1,2,3,6,7,8-HxCDF	2000	1623.338	81		26-123	0.51	0.971
13C-1,2,3,7,8,9-HxCDF	2000	1570.608	79		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1584.851	79		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1151.880	58		28-143	0.44	1.046
13C-1,2,3,4,7,8,9-HpCDF	2000	1027.719	51		26-138	0.43	1.083
37Cl-2,3,7,8-TCDD	800	496.860	62		35-197	NA	1.030

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500358-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/14/25 23:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-08
		GC Column:	DB-5MSUI
Data File Name:	P643145	**Blank File Name:**	P643135
ICAL Date:	07/23/25	**Cal Ver. File Name:**	P643132

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	194		1.63	5.00	0.78	1.001	1
1,2,3,7,8-PeCDD	940		0.912	25.0	1.56	1.001	1
1,2,3,4,7,8-HxCDD	1040		0.615	25.0	1.28	1.000	1
1,2,3,6,7,8-HxCDD	897		0.533	25.0	1.32	1.000	1
1,2,3,7,8,9-HxCDD	969		0.552	25.0	1.29	1.007	1
1,2,3,4,6,7,8-HpCDD	1020		0.595	25.0	1.03	1.000	1
OCDD	1900		4.71	50.0	0.95	1.000	1
2,3,7,8-TCDF	219		1.33	5.00	0.71	1.000	1
1,2,3,7,8-PeCDF	943		1.47	25.0	1.52	1.000	1
2,3,4,7,8-PeCDF	962		1.40	25.0	1.55	1.001	1
1,2,3,4,7,8-HxCDF	827		0.546	25.0	1.25	1.000	1
1,2,3,6,7,8-HxCDF	902		0.606	25.0	1.25	1.000	1
1,2,3,7,8,9-HxCDF	918		0.812	25.0	1.26	1.000	1
2,3,4,6,7,8-HxCDF	903		0.632	25.0	1.23	1.000	1
1,2,3,4,6,7,8-HpCDF	984		1.20	25.0	1.04	1.000	1
1,2,3,4,7,8,9-HpCDF	943		1.62	25.0	1.03	1.000	1
OCDF	1990		2.39	50.0	0.91	1.005	1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2500358-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/14/25 23:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-08
		GC Column:	DB-5MSUI
Data File Name:	P643145	**Blank File Name:**	P643135
ICAL Date:	07/23/25	**Cal Ver. File Name:**	P643132

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	194		1.63	5.00	0.78		1
Total Penta-Dioxins	940		0.912	25.0	1.56		1
Total Hexa-Dioxins	2910		0.564	25.0	1.28		1
Total Hepta-Dioxins	1020		0.595	25.0	1.03		1
Total Tetra-Furans	221		1.33	5.00	0.71		1
Total Penta-Furans	1900		1.44	25.0	1.52		1
Total Hexa-Furans	3560		0.638	25.0	1.25		1
Total Hepta-Furans	1930		1.38	25.0	1.04		1

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2500695
Project:	257804.01-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2500358-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	08/14/25 23:39
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	8/11/25
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-08
		GC Column:	DB-5MSUI
Data File Name:	P643145	**Blank File Name:**	P643135
ICAL Date:	07/23/25	**Cal Ver. File Name:**	P643132

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1040.530	52		25-164	0.78	1.028
13C-1,2,3,7,8-PeCDD	2000	1113.773	56		25-181	1.56	1.236
13C-1,2,3,4,7,8-HxCDD	2000	1233.848	62		32-141	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1461.281	73		28-130	1.29	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	942.963	47		23-140	1.03	1.071
13C-OCDD	4000	1103.605	28		17-157	0.95	1.142
13C-2,3,7,8-TCDF	2000	917.315	46		24-169	0.79	0.990
13C-1,2,3,7,8-PeCDF	2000	1138.892	57		24-185	1.57	1.185
13C-2,3,4,7,8-PeCDF	2000	1155.381	58		21-178	1.59	1.224
13C-1,2,3,4,7,8-HxCDF	2000	1606.958	80		26-152	0.51	0.968
13C-1,2,3,6,7,8-HxCDF	2000	1499.430	75		26-123	0.51	0.971
13C-1,2,3,7,8,9-HxCDF	2000	1350.379	68		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1448.532	72		28-136	0.51	0.986
13C-1,2,3,4,6,7,8-HpCDF	2000	1052.631	53		28-143	0.44	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	906.917	45		26-138	0.44	1.083
37Cl-2,3,7,8-TCDD	800	429.699	54		35-197	NA	1.029

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact:	Claire Kocharakkal	**Client Name:**	ALS Group USA, Corp.
ALS Project ID:	ALSG150	**Client Address:**	10450 Stancliff Road
ALS WO#:	BU2502345		Suite 210, Houston TX 77099
Date of Report	5-Sep-25		USA
Date of Sample Receipt	26-Aug-25	**Client Contact:**	Hussam Kelany
		Client Project ID:	E2500746

COMMENTS: **PCB Congeners by EPA 1668C**

PCB Congener Group Totals and Total PCB are a sum of detected values, including EMPC values, consistent with USEPA CLP SOW CBC1.2

Certified by:

Sabrina Jin
Technical Specialist

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	**2434014**
ALS Sample ID	BU2502345-001
Sample Size	1.01
Sample size units	L
Percent Moisture	n/a
Sample Matrix	Water
Sampling Date	4-Aug-25
Extraction Date	28-Aug-25

Target Analytes	**pg/L**
PCB-081	<0.46
PCB-077	<1.8
PCB-126	<0.34
PCB-169	<0.36
Extraction Standards	**% Rec**
13C12-PCB-081	67
13C12-PCB-077	63
13C12-PCB-126	61
13C12-PCB-169	59
Cleanup Standards	
13C12-PCB-028	92
13C12-PCB-111	86
13C12-PCB-178	103

ALS Life Sciences

Quality Control Summary Report

Sample Name	**Method Blank**
ALS Sample ID	QC-2187459-001
Sample Size	1.00
Sample size units	L
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	28-Aug-25
Target Analytes	**pg/L**
PCB-081	<0.42
PCB-077	<0.48
PCB-126	<0.41
PCB-169	<0.41
Extraction Standards	**% Rec**
13C12-PCB-081	79
13C12-PCB-077	74
13C12-PCB-126	74
13C12-PCB-169	73
Cleanup Standards	
13C12-PCB-028	96
13C12-PCB-111	92
13C12-PCB-178	106

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	Laboratory Control Sample
ALS Sample ID	QC-2187459-002
Sample Size	1
Sample size units	n/a
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	28-Aug-25

Target Analytes	% Rec
PCB-081	92
PCB-077	92
PCB-126	91
PCB-169	87
Extraction Standards	**% Rec**
13C12-PCB-081	46
13C12-PCB-077	44
13C12-PCB-126	43
13C12-PCB-169	43
Cleanup Standards	
13C12-PCB-028	59
13C12-PCB-111	56
13C12-PCB-178	68

ALS Life Sciences

Sample Analysis Report

Sample Name	**2434014**	Sampling Date	4-Aug-25		
ALS Sample ID	BU2502345-001	Extraction Date	28-Aug-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1.01	L	*Henna Saeed*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Water	Split Ratio	1		04-Sep-2025

Run Information	**Run 1**
Filename	5-250830B06
Run Date	31-Aug-25 05:47
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL291720-01

Target Analytes	**TEF (WHO 200**	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
PCB-081	0.0003	NotFnd	<0.46	0.46	U		5.0
PCB-077	0.0001	22.10	<1.8	0.51	M,J,R	1.8	5.0
PCB-126	0.1	NotFnd	<0.34	0.34	U		5.0
PCB-169	0.03	28.63	<0.36	0.36	U	0.36	5.0

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	2000	21.78	67	10-145
13C12-PCB-077	2000	22.08	63	10-145
13C12-PCB-126	2000	25.46	61	10-145
13C12-PCB-169	2000	28.62	59	10-145
Cleanup Standards				
13C12-PCB-028	2000	15.99	92	5-145
13C12-PCB-111	2000	21.99	86	10-145
13C12-PCB-178	2000	25.03	103	10-145

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	QC-2187459-001	Extraction Date	28-Aug-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1.00	L	*Henna Saeed*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		04-Sep-2025

Run Information	**Run 1**
Filename	5-250830B05
Run Date	31-Aug-25 05:04
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL291720-01

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
PCB-081	0.0003	21.78	<0.42	0.42	M,U	0.35	5.0
PCB-077	0.0001	NotFnd	<0.48	0.48	U		5.0
PCB-126	0.1	NotFnd	<0.41	0.41	U		5.0
PCB-169	0.03	28.63	<0.41	0.34	M,J,R	0.41	5.0

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	2000	21.78	79	10-145
13C12-PCB-077	2000	22.08	74	10-145
13C12-PCB-126	2000	25.45	74	10-145
13C12-PCB-169	2000	28.62	73	10-145
Cleanup Standards				
13C12-PCB-028	2000	15.99	96	5-145
13C12-PCB-111	2000	21.98	92	10-145
13C12-PCB-178	2000	25.02	106	10-145

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	QC-2187459-002	Extraction Date	28-Aug-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*Henna Saeed*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		04-Sep-2025

Run Information	**Run 1**
Filename	5-250830B03
Run Date	31-Aug-25 03:38
Final Volume	25 ul
Dilution Factor	1
Analysis Units	% Rec
Instrument - Column	HRMS-5 SPBOCTYL291720-01

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-081	1000	21.79	92	60-135	
PCB-077	1000	22.10	92	60-135	
PCB-126	1000	25.47	91	60-135	
PCB-169	1000	28.63	87	60-135	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-081	2000	21.78	46	40-145	
13C12-PCB-077	2000	22.08	44	40-145	
13C12-PCB-126	2000	25.46	43	40-145	
13C12-PCB-169	2000	28.62	43	40-145	
Cleanup Standards					
13C12-PCB-028	2000	16.00	59	15-145	
13C12-PCB-111	2000	21.99	56	40-145	
13C12-PCB-178	2000	25.03	68	40-145	

ALS Environmental Chain of Custody

10450 Stancliff Rd • Houston, TX 77099 • 281-530-5656 • FAX

ALS Contact: Hussam Kelany

Project Number: E2500746
Project Manager: Hussam Kelany
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Cl Biphen Cong 1668A
E2500746-001	2434014		Water	8/4/25	0843	Burlington ALS	X

Test Comments

Cl Biphen Cong - 1668A	E2500746-001	PCB 77, PCB 81, PCB 126, and PCB 169

Environmental Division
Burlington
Work Order Reference
BU2502345

Telephone : +1 905 331 3111

Special Instructions/Comments

NPDES

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

✓ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 (5)

___ **STANDARD**

Requested FAX Date: _____

Requested Report Date: 09/01/25

Report Requirements

___ I. Results Only

✓ II. Results + QC Summaries

___ III. Results + QC and Calibration Summaries

___ IV. Data Validation Report with Raw Data

PQL/MDL/J Y

EDD N

Invoice Information

PO# 55E2500746

Bill to

Relinquished By: _____

Received By: R Chm 26-Aug-2025 15:00 1.5.C

Airbill Number: _____

Rainee Trevino

From: Rumbaugh, Martin <Martin.Rumbaugh@aecom.com>
Sent: Thursday, December 4, 2025 11:48 AM
To: Rainee Trevino; Jesi Mann
Cc: Blake Neffendorf
Subject: Resubmittal -Notice of Deficiency Letter - Application to Renew Permit No. WQ0011060001
Attachments: wq0011060001-nod1.pdf; Spanish Plain Language Summary rev 120425.pdf; Municipal Discharge Renewal Spanish NORI edited.docx

Rainee,

Responses below follow the order of the comments in the NOD1 Letter(attached).

1. Please find attached the revised Plain Language Summary (Spanish version) which has been revised to list the City of Buda as Owner and GBRA as Operator of the WWTP.

2. No errors or omissions were noted in our review of the NORI (English version) paragraphs. However, the following typos were noted:

- "to to Outfall 001" needs a duplicate word removed to be "to Outfall 001"
- "Porter Creek,thence" needs a space added to be "Porter Creek thence"
- "thenceto Brushy Creek" needs a space added to be "thence to Brushy Creek"

3. Please find attached the filled-in Spanish translation of the NORI. Note that we did not fill in the date issued.

Thank you,

Martin Rumbaugh, P.E., BCEE

C 512.771.6344
martin.rumbaugh@aecom.com

AECOM
Building A
13640 Briarwick Drive
Suite 200
Austin, Texas 78729
T 512.472.4519 F 512.472.7519
www.aecom.com

From: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Thursday, December 4, 2025 10:40 AM
To: Rumbaugh, Martin <Martin.Rumbaugh@aecom.com>; Jesi Mann <jmann@gbra.org>
Subject: RE: Application to Renew Permit No. WQ0011060001-Notice of Deficiency Letter

Good morning,

Everything can be sent via email directly to me.

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324

From: Rumbaugh, Martin <Martin.Rumbaugh@aecom.com>
Sent: Thursday, December 4, 2025 9:54 AM
To: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>; Jesi Mann <jmann@gbra.org>
Subject: RE: Application to Renew Permit No. WQ0011060001-Notice of Deficiency Letter

Rainee,

Thank you for your email and the NOD letter and NORI translation template.

Can the response to address these comments be furnished via reply to your email, or does it need to be uploaded by FTP and delivered as a hard copy?

Thanks,

Martin Rumbaugh, P.E., BCEE

C 512.771.6344
martin.rumbaugh@aecom.com

AECOM
Building A
13640 Briarwick Drive
Suite 200
Austin, Texas 78729
T 512.472.4519 F 512.472.7519
www.aecom.com

From: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Monday, December 1, 2025 1:17 PM
To: Jesi Mann <jmann@gbra.org>
Cc: Rumbaugh, Martin <Martin.Rumbaugh@aecom.com>
Subject: Application to Renew Permit No. WQ0011060001-Notice of Deficiency Letter

Good afternoon,

The attached Notice of Deficiency letter sent on December 1, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by December 15, 2025.

Thank you,

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324

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.

La Ciudad de Buda (CN601720741 o CN600739866) es propietaria y la GBRA (CN601180565) opera La Planta de Tratamiento de Aguas Residuales de la Ciudad de Buda (RN101703288), una planta de proceso de lodos activados que opera en modo de mezcla completa. La instalación está ubicada en 575 Garison Road, en Buda, Condado de Hays, Texas 78610. Esta aplicación es para una renovación de la autorización existente para tratar una capacidad de 3.5 millones de galones por día de flujo promedio anual. .

Se espera que las descargas de la instalación contengan cloruro, sólidos totales disueltos, sulfato y alcalinidad (CaCO3), asi como los niveles permitidos de demanda bioquimica de oxigeno, sólidos suspendidos totales, amoniaco, y fósforo. Otros contaminantes potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7. Análisis de contaminantes del efluente tratado y hoja de trabajo doméstica 4.0 en el paquete de solicitud de permiso. Aguas residuales domésticas. está tratado por una planta de proceso de lodo activado y las unidades de tratamiento incluyen una rejilla, una cámara de desarenado, estanques de aireación, clarificadores finales, filtros, cámaras de contacto con cloro y descloración. Los residuales sólidos biologicos se tratan por por aeración, espesador de gravidad, y filtro prensa de bandas, y transportado a otras instalaciones externas autorizadas de procesamiento de lodos para tratamiento adicional.

Cover Sheet - Buda WWTP TPDES Permit WQ0011060001 Renewal Application

Sequence of Forms and Attachments

Order	Doc. Type	Number	Description
1	TCEQ Form	10053	Domestic Administrative Report (1.0 and 1.1)
Att. A	TCEQ Form	10040	Administrative Report Attachment 1 – Core Data Form (Buda)
Att. A	TCEQ Form	10040	Administrative Report Attachment 1 – Core Data Form (GBRA)
Att. B	Attachment		USGS Map – Domestic Administrative Report 1.0 Section 13
Att. C	TCEQ Form	20971	Supplemental Permit Information Form (SPIF)
Att. C1	Attachment		USGS Map (SPIF Item 3)
Att. C2	Attachment		General Location Map (SPIF Item 5)
Att. D	TCEQ Form	20972	Summary of Application in Plain Language
2	TCEQ Form	10054	Domestic Technical Report and Worksheets
Exh. A	Exhibit	A	Detailed Description of Treatment Process – 10054 Section 2. A
Exh. B	Exhibit	B	Treatment Unit Type, Number, Dimensions – 10054 Section 2.B
Exh. C	Exhibit	C	Process Flow Diagrams – 10054 Section 2.C
Exh. D	Exhibit	D	Site Information – 10054 Section 3
Exh. E	Exhibit	E	Service Area Drawing – 10054 Section 3
Exh. F	Exhibit	F	TCEQ Approval Letter (Interim I / Interim II) – 10054 Section 6.A
Exh. G	Exhibit	G	TCEQ Approval Letter (Interim III / Final) – 10054 Section 6.A
Exh. H	Exhibit	H	TCEQ Approval Effluent FM to Outfall 002 – 10054 Section 6.A
Exh. I	Exhibit	I	Facility Operators and Licenses – 10054 Section 8
Exh. J	Exhibit	J	Sludge Acceptance Agreements – 10054 Section 9.C
Exh. K	Exhibit	K	30 TAC 210 Effluent Reuse Authorization – 10054 Section 12.A
Exh. L	Exhibit	L	Description of Receiving Waters Outfall 001– 10054 Worksheet 2.0
Exh. M	Exhibit	M	Description of Receiving Waters Outfall 002– 10054 Worksheet 2.0
Exh. N	Exhibit	N	Stream Physical Characteristics Outfall 001– 10054 Worksheet 2.1
Exh. O	Exhibit	O	Stream Physical Characteristics Outfall 002– 10054 Worksheet 2.1
Exh. P	Exhibit	P	Effluent Samples Laboratory Reports – 10054 Worksheet 4.0